

Selected bibliography

- Abdukhayumov, A.A.
1973: Effect of the geological environment on chemical characteristics of beresitization of rocks with gold sulphide mineralization (as illustrated by the Terekkan and Left-Bank Taldy-Bulak deposits); Tr. Tashk. Politekh. Inst., v. 95, p. 102-103. (Chem. Abstr., v. 83, 63540k.)
- Abdulkabirova, M.A., Ankinovich, O.S., Grishin, V.M., Kayupov, A.K. and Kudaibergenova, N.K.
1971: Gold ore fields of northern Kazakhstan; Nauka Kaz. S.S.R., Alma-Ata, U.S.S.R., 168 p. (Chem. Abstr., v. 77, 64926d.)
- Abreu, Silvio Fróis
1973: Recursos minerais do Brasil; vols. I and II. Editora, Edgard Blücher Ltda; Sao Paulo, Brasil.
- Adams, F.D.
1938: The birth and development of the geological sciences; The Williams & Wilkins Co., Baltimore, 506 p.
- Adams, S.F.
1920: A microscopic study of vein quartz; Econ. Geol., v. 15, p. 623-664.
- Addie, G.
1964: Silver-gold ratios in some Witwatersrand conglomerates; Econ. Geol., v. 59, p. 325.
- Adilov, V.B., Shvartseva, N.M. and Lyan, D.
1971: Antimony in subsurface waters of some gold-ore deposits of the Kuraminsk Range; Vop. Gidrokhim. Prirod. Aridnoi Zony SSSR, N.N. Khodzhibaev, ed., p. 91-102. (Chem. Abstr., v. 81, 94129m.)
- Aferov, Yu. A., Zvyagin, V.G., Roslyakova, N.V., Roslyakov, N.A., Shabynin, L.L. and Epov, I.N.
1968: Gold in rocks, plants, and waters of the Darasun deposit; Vop. Geol. Pribaikal. Zabaikal., no. 3, p. 146-149. (Chem. Abstr., v. 70, 30889j.)
- Ahlfeld, F.
1937: Typen bolivianischer Goldlagerstätten; Zentralbl. Mineral. Geol. Palaeontol., Abt. A, p. 240-255.
- Aho, L.
1975: Ore mineralization at Ritovuori, Pihtipudas, central Finland; Geol. Surv. Finl., Bull. 275, 21 p.
- Aicard, P.
1957: Le Precambrien du Togo et du nord-ouest du Dahomey; Gouv. Gen. Afr. Occid. Fr., Bull. Dir. Fed. Mines Geol. Dakar, Grand Imprimerie Africaine, no. 23, 221 p.
- Aitken, J.D.
1959: Atlin map-area, British Columbia; Geol. Surv. Can., Mem. 307, 89 p.
- Akhmedov, A.M., Gavrilenko, B.V. and Predovskii, A.A.
1974: Distribution of gold in carbonaceous sulfide schists of the Pechenga complex; Vop. Geol. Metallog. Kol'sk Poluostrova, v. 5, pt. 2, p. 231-235. (Chem. Abstr., v. 84, 92837 p.)
- Akopyan, M.S., Iskandaryan, G.G. and Dontsova, E.I.
1976: Isotopic oxygen study of the Megradzorsk gold ore deposit; Geokhimiya, no. 2, p. 283-288.
- Akright, R.L., Radtke, A.S. and Grimes, D.J.
1969: Minor elements as guides to gold in the Roberts Mountains Formation, Carlin gold mine, Elko County, Nevada; in Int. Geochem. Explor. Symp., F.C. Canney, ed.; Colo. Sch. Mines, Q., v. 64, no. 1, p. 49-66.
- Al-Atia, M.J. and Barnes, J.W.
1974: Rubidium: a primary dispersion pathfinder at Ogofau Gold Mine, southern Wales; Geochemical exploration 1974; I.L. Elliot and W.K. Fletcher, eds., Assoc. Explor. Geochem., Spec. Publ. no. 2, Elsevier Co., Amsterdam, p. 341-352.
- Al-Shahristani, H. and Al-Atyia, M.J.
1973: Determination and geochemical significance of trace elements in Iraqi crude oils using instrumental neutron activation analysis; J. Radioanal. Chem., v. 14, no. 2, p. 401-413.
- Al-Shaieb, Z.
1972: Geochemical anomalies in the igneous wall rock at Mayflower mine, Park City district, Utah; Univ. Microfilms, Ann Arbor, Mich., 113 p. (Chem. Abstr., v. 80, 5689t.)
- Alabina, A.A., Roslayakov, N.A., Sotnikov, V.I., Kharitonov, I.I. and Tsimbalist, V.G.
1969: Distribution characteristics of gold and molybdenum in rocks of the Davendinsk-Klyucheva ore field; Zap. Zabaikal. Filiala Geogr. Obshchest. SSSR, no. 36, p. 44-49. (Chem. Abstr., v. 77, 116734m.)
- Albers, J.P. and Kleinhampl, F.J.
1970: Spatial relation of mineral deposits to Tertiary volcanic centers in Nevada; U.S. Geol. Surv., Prof. Pap. 700-C, p. 1-10.
- Al'bov, M.N.
1952: Forms of the migration of gold in the oxidized zone of mineral deposits; Akad. Nauk SSSR, Izv., Ser. Geol., no. 4, p. 41-52.
1960: Determination of zone of secondary enrichment in vein gold deposits; Tr. Sverdlovsk. Gorn. Inst., no. 35, p. 58-64. (Chem. Abstr., v. 60, 1460b.)
- Albul, S.P. and Miller, A.D.
1959: Prospecting for gold-ore deposits according to hydrogeochemical zones of dispersion; Novoe Methodike Tekh. Geologorazvedoch. Rabot, Leningrad Sb., v. 2, p. 133-139. (Chem. Abstr., v. 55, 6273c.)
- Alcock, F.J.
1936: The gold deposits of Lake Athabaska; Can. Inst. Min. Metall., Trans., v. 39, p. 531-546.
- Aleksandrov, A.L., Olovyashnikov, V.M. and Potorochenko, A.N.
1975: Florencite in rocks of the Bodaibo gold ore region as an indicator of hydrothermal processes; Akad. Nauk SSSR, Dokl., v. 224, no. 5, p. 1152-1155. (Chem. Abstr., v. 84, 76878x.)
- Aliskerov, A.A.
1974: Acidity-alkalinity of hydrothermal mineral formation processes in the Avachinsk-Kitkhoisky uplift zone; Gidroterm. Mineraloobraz. Rastvory Obl. Akt. Vulkanizma, p. 200-203. (Chem. Abstr., v. 82, 173654n.)
- Allen, E.T. and Day, A.L.
1935: Hot springs of the Yellowstone National Park; Carnegie Inst. Wash. 525 p.
- Aller, L.H.
1961: The abundance of the elements; Interscience Publishers Inc., New York, 283 p.
- Allman, R. and Crockett, J.H.
1972: Gold; in Handbook of geochemistry, v. II/3, K.H. Wedepohl, ed., Springer-Verlag, Berlin, Chap. 79.
- Alminas, H.V., Watts, K.C. and Siems, D.F.
1972: Trace metal distribution in the Winston, Chise, and Priest Tank quadrangles, Sierra County, New Mexico; U.S. Geol. Surv., Misc. Field Study Map MF-400 (Ag and Au).
- Altman, O.
1960: The role of gold in international liquidity; Mines Mag., v. 50, no. 10, p. 39-42.
- Alvir, A.D.
1930: Antamokite, a new gold-silver telluride; Philipp. J. Sci., v. 41, p. 137-139.
- Amarskii, V.G.
1972: Distribution of gold and mercury mineralization in the central part of the Stanovoi Ridge; Zap. Zabaikal. Filiala Geogr. O-va. SSSR, v. 86, p. 68-76. (Chem. Abstr., v. 82, 62013h.)
- Ames, H.G.
1948: Perron Mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 893-898.
- Ames, R.L.
1962: The origin of the gold-quartz deposits, Yellowknife, N.W.T.; Econ. Geol., v. 57, p. 1137-1140.

- Amiryan, Sh. O.
1960: Mineralogy of gold-deposits; Akad. Nauk Arm. SSR, Dokl., v. 31, no. 1, p. 43-48; Akad. Nauk Arm. SSR, Izv., Geol. Geograf. Nauki, v. 13, nos. 3-4, p. 47-55. (Chem. Abstr., v. 55, 8194b.)
1974: Mineralogy and geochemistry of ores of the Laligyukh gold-sulphide deposit; Akad. Nauk Arm. SSR, Izv. Nauki Zemle, v. 27, no. 2, p. 57-61. (Chem. Abstr., v. 82, 46347q.)
- Amosov, R.A., Chuvikina, N.G., Bochek, L.I. and Epov, I.N.
1971: Hydrothermal smythite from the Darasun gold-ore deposit; Akad. Nauk SSSR, Dokl., v. 197, no. 3, p. 674-677. (Chem. Abstr., v. 75, 8352k.)
- Amosov, R.A., Chuvikina, N.G., Novozhilov, Yu.I. and Gureev V.F.
1975: Orientation cocrystallization of native gold and pyrite; Zap. Vses. Mineral. Obschest. 5, p. 630-634.
- Amosov, R.A. and Gureev, V.F.
1970: Formation of gold on sulphides; Mater. Konf. Molodykh Nauch. Sotrudnikov Tsent. Nauch. Issled. Gornorazved. Inst. Tsvet., Redk. Blagorod. Metal, 1969, p. 12-15. (Chem. Abstr., v. 80, 123167u.)
- Amukun, S.E.O. and Turnock, A.C.
1971: Composition of gold-bearing quartz vein rocks, Bissett area, Manitoba; in Geology and geophysics of the Rice Lake region, southeastern Manitoba (Project Pioneer); Manitoba Mines Br., Publ. 71-1, p. 325-336.
- Anasenko, A.V.
1970: Gold deposits of the Adycha-Indigirka region; Geol. Rud. Mestorozhd., no. 5, p. 105-108.
- Anders, E., Ganapathy, R., Keays, R.R., Laul, J.C. and Morgan, J.W.
1971: Volatile and siderophile elements in lunar rocks: comparison with terrestrial and meteoritic basalts; Proc. 2nd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 2, v. 2, p. 1021-1036.
- Anderson, J.C.
1935: Essential criteria in examining gold-quartz mines; Eng. Min. J., v. 136, p. 445-449.
- Anderson, J.S.
1945: Chemistry of the earth; R. Soc., N.S.W., J. Proc., v. 76, p. 329-345.
1953: Observations on the geochemistry of indium; Geochim. Cosmochim. Acta, v. 4, p. 225-240.
- Anderson, R.E.
1969: Geology and geochemistry Diana lakes area, western Talkeetna Mountains, Alaska; State Alaska Geol. Rep., no. 34, 27 p.
- Andrade Ramos, J.R. de and Fraenkel, M.O.
1974: Uranium occurrences in Brazil; in Formation of uranium ore deposits; Int. Atomic Energy Agency—SM—183/24, p. 637-658.
- Andreev, V.V., Evtushenko, S.I. and Timofeeva, T.S.
1970: The geochemistry of gold and silver in ores of the Kuru-Tegerek deposit in Kirghizia; Zap. Uzb. Otd. Vses. Mineral. Obschest., no. 23, p. 169-171.
- Andrew, A.R.
1910a: The detection of minute traces of gold in country rock; Inst. Min. Metall., Trans., v. 19, p. 276-281.
1910b: The geology of the Dolgelley gold belt, north Wales; Geol. Mag., Decade V, v. VII, p. 159-171, 201-211, 261-271.
- Andrews-Jones, D.A.
1968: The application of geochemical techniques to mineral exploration; Colo. Sch. Mines, Mineral. Ind. Bull., v. 11, no. 6, 31 p.
- Andrianarisoa, R. and Raharinosy, M.
1972: Evaluation of indications of cinnabar, cassiterite, and gold in the Amilobe Region; Malagasy, Rapp. Annu. Serv. Geol., 1972, p. 95-104. (Chem. Abstr., v. 82, 127635j.)
- Andrusenko, N.I. and Shchepotyev, Yu. M.
1974: Temperature conditions of the formation and stages of subvolcanic gold-silver deposits of central Kamchatka; Geokhim., no. 2, p. 179-186.
- Angino, E.E. and Billings, G.K.
1972: Atomic absorption spectrometry in geology, 2nd ed.; Elsevier Publ. Co., Amsterdam, 191 p.
- Angino, E.E., Goebel, E.D. and Waugh, T.C.
1971: Lead isotopes and metallic sulphides as exploration guides in Mid-Continent Paleozoic rocks; in Geochemical exploration, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 453-456.
- Anhaeusser, C.R.
1966: Supergene gold enrichment in the Barberton Mountain Land with particular reference to the Lily Mine; Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ. no. 29, 16 p.
1976a: The nature and distribution of Archaean gold mineralization in southern Africa; Miner. Sci. Eng., v. 8, p. 46-84.
1976b: Archaean metallogeny in southern Africa; Econ. Geol., v. 71, p. 16-43.
- Anhaeusser, C.R. and Button, A.
1974: Review of southern Africa stratiform ore deposits. Their position in time and space; Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ. no. 85, p. 1-48. (Chem. Abstr., v. 81, 172937z.)
- Anhaeusser, C.R., Fritze, K., Fyfe, W.S. and Gill, R.C.O.
1975: Gold in "primitive" Archaean volcanics; Chem. Geol., v. 16, p. 129-135.
- Anhaeusser, C.R., Mason, R., Viljoen, M.J. and Viljoen, R.P.
1969: A reappraisal of some aspects of Precambrian Shield geology; Geol. Soc. Am., Bull., v. 80, no. 11, p. 2175-2200.
- Anhaeusser, C.R., Roering, C., Viljoen, M.J. and Viljoen, R.P.
1968: The Barberton Mountain Land: a model of the elements and evolution of an Archaean fold belt; Geol. Soc. S. Afr., Trans. (Annex.), v. 71, p. 225-254.
- Ankudovich, P.M. and Roseeva, A.N.
1974: Gold distribution in metasomatic rocks of the Kuramin subzone (Uzbek S.S.R.); Metallog. Geokhim. Uzb., p. 167-172. (Chem. Abstr., v. 82, 142820j.)
- Anonymous
1933: Gold; a reprint of the special number of "The Times"; The Times Publishing Co., Ltd., Printing House Square, London, 238 p.
- Anoshin, G.N.
1977: Gold in magmatic rocks; Trans. Inst. Geol. Geophys., no. 289, Acad. Sci. USSR Siber. Br., "Nauka" Publ. House, Novosibirsk, 207 p.
- Anoshin, G.N., Bushlyakov, I.N. and Potap'ev, V.V.
1970: Distribution of gold in rocks and minerals of the Altai, Transbaikalia, and Ural's granitic rock massifs; Izv. Tomsk. Politekh. Inst., v. 239, p. 39-44. (Chem. Abstr., v. 75, 111760r.)
- Anoshin, G.N. and Emel'yanov, E.M.
1969: Gold in magmatic rocks of the Atlantic Ocean (Radioactivation analysis data); Akad. Nauk SSSR, Dokl., v. 189, no. 5, p. 1107-1110.
- Anoshin, G.N., Emel'yanov, E.M. and Perezhogin, G.A.
1969: Gold in the modern sediments of the northern part of the Atlantic Ocean Basin; Geochem. Int., v. 6, no. 5, p. 897-905.
- Anoshin, G.N. and Kepezhinskas, V.V.
1972: Petrochemical features related to gold distribution for the Cenozoic volcanic rocks of the Kuril-Kamchatka province; Geochem. Int., v. 9, no. 4, p. 618-629.
- Anoshin, G.N. and Potap'ev, V.V.
1966: Gold in granites of the Kolyvan' (Altai) and Khangilay-Shilinskiy (Transbaikalia) massifs (according to radioactivation analysis data); Geokhim., no. 9, p. 1070-1074. Also Geochem. Int. 1966, v. 3, no. 5, p. 850-854.

- Anoshin, G.N., Zolotarev, B.P. and Tsimbalist, V.G.
1971: Gold in rocks of tholeiite-basalt formations; *Akad. Nauk SSSR, Dokl.*, v. 201, no. 3, p. 700-703. (Chem. Abstr., v. 76, 48206t.)
- Anthony, K.M.
1967: The discovery of the Keystone gold mine, Cleary Hill area, Fairbanks district, Alaska—a geochemical prospecting case history; *in* Proc. Symp. Geochem. Prospecting, Ottawa, April 1966, E.M. Cameron, ed., Geol. Surv. Can., Pap. 66-54, p. 3-12.
- Antipin, V.S., Kuz'min, M.I., Kozlov, V.D. and Glazunova, A.D.
1969: Relative average contents and distribution of molybdenum and gold in eastern Transbaikalia granitic rocks of various ages; *Zap. Zabaikal. Filiala Geogr. Obschest. SSSR*, v. 35, p. 104-108. (Chem. Abstr., v. 75, 89975r.)
- Antrobus, E.S.A.
1956: The origin of the auriferous reefs of the Witwatersrand system; *Geol. Soc. S. Afr., Trans.*, v. 59, p. 1-15, disc. p. 17-22.
- Antweiler, J.C. and Campbell, W.L.
1976: Application of gold compositional analyses to mineral exploration in the United States; 25th Int. Geol. Congr., Sydney, Australia, Abstr., v. 2, p. 433-434.
- Antweiler, J.C., Doe, B.R. and Delevaux, M.H.
1972: Lead isotope and other evidence on the bedrock source of placer gold at Hahns Peak, Colorado; *Econ. Geol.*, v. 67, p. 302-314.
- Antweiler, J.C. and Love, J.D.
1967: Gold-bearing sedimentary rocks in northwest Wyoming—a preliminary report; *U.S. Geol. Surv., Circ.* 541, 12 p.
- Antweiler, J.C. and Sutton, A.L.
1970: Spectrochemical analysis of native gold samples; *U.S. Clearinghouse Fed. Sci. Tech. Inform.*, P B Rep. 1970, no. 194809, 32 p. (Chem. Abstr., v. 75, 8625b.)
- Anufriev, Yu. N., Stupakov, G.P. and Moskalyuk, A.A.
1973: Characteristic properties of quartz from the Kochkar gold-ore deposit; *Akad. Nauk SSSR, Izv., Ser. Geol.*, no. 3, p. 68-81. *Also* *Int. Geol. Rev.*, v. 16, p. 405-416, 1974.
- Apel'tsin, F.E., Erofeev, B.N. and Lugov, S.F.
1968: Some features of gold metallogeny in the region of the Okhotsk-Chukotka volcanic belt; 23rd Int. Geol. Congr., Prague, 1968, Abstr., Sec. 7, p. 174.
- Aprelkov, S. Ye. and Kharchenko, Yu. I.
1968: Gold polymetallic and gold-silver occurrences in southern Kamchatka; *Geol. Rud. Mestorozhd.*, v. 10, p. 109-112. *Also* *Int. Geol. Rev.*, v. 13, p. 740-743, 1970.
- Arapov, V.A., Bragin, I.K., Gar'kovets, V.G., Malakhov, A.A., Matsokina, T.M., Palei, L.Z., Petrov, V.M., Rakhmatullaev, Kh.R. and Khamrabaev, I.Kh.
1968: Metallogenic mapping of Uzbekistan for gold and type classification of gold-bearing areas; *in* *Rud. Form. Osn. Cherty Metallogen. Zolota Uzb.*, I.Kh. Khamrabaev, ed., Izd. "Fan" Uzb. SSR, Tashkent, p. 303-329. (Chem. Abstr., v. 73, 37336x.)
- Arapov, V.A., Bragin, I.K., Kustarnikova, A.A., Malakhov, A.A., Matsokina, T.M., Palei, L.Z. and Khamrabaev, I.Kh.
1968: Geological factors in the distribution of endogenic gold ore formations; *Rud. Form. Osn. Cherty Metallogen. Zolota Uzb.*, I.Kh. Khamrabaev, ed., p. 337-346. (Chem. Abstr., v. 73, 37335w.)
- Archer, A.R. and Main, C.A.
1971: Casino, Yukon—a geochemical discovery of an unglaciated Arizona-type porphyry; *in* *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 67-77.
- Aripova, Kh. and Prikhid'ko, P.L.
1965: Determination of gold in plants and soils during biogeochemical studies; *Uzb. Geol. Zh.*, v. 9, no. 4, p. 50-53. (Chem. Abstr., v. 64, 1341a.)
- Aripova, Kh. and Talipov, R.M.
1966: Concentration of gold in soils and plants in the southern part of the Tamdyn Mountains; *Uzb. Geol. Zh.*, v. 10, no. 3, p. 45-51. (Chem. Abstr., v. 66, 48364m.)
- Aristov, V.V., Bezirganov, B.G. and Shevyrev, I.A.
1972: The question of the origins of gold in auriferous deposits and its significance for the solution of prospecting problems; *Izv. Vyssh. Ucheb. Zaved. Geol. Razved.*, no. 12, p. 61-67.
- Arkhipov, Yu. V. and Bilanenko, V.A.
1973: Antimony mineralization in eastern Yakutia; *Razved. Okhr. Nedr.*, no. 10, p. 8-13. (Chem. Abstr., v. 80, 85687d.)
- Armstrong, E.G. and Armstrong, K.F.
1931: The glycosides; Longmans, Green and Co., Ltd., London, 123 p.
- Armstrong, H.S.
1943: Gold ores of the Little Long Lac area, Ontario; *Econ. Geol.*, v. 38, p. 204-252.
- Arsen'ev, V.P., Baranov, V.A. and Kotkin, V.V.
1975: Gold-bearing capacity of carbonaceous terrigenous rocks of the Precambrian and early Paleozoic in Sayan-Baikal fold region; *Geol. Geofiz.*, no. 6, p. 3-11. (Chem. Abstr., v. 83, 196320k.)
- Ashley, R.P.
1974: Goldfield mining district, Nevada; *Nev., Bur. Mines, Rep.*, v. 19, p. 49-66.
- Ashley, R.P. and Albers, J.P.
1975: Distribution of gold and other ore-related elements near ore bodies in the oxidized zone at Goldfield, Nevada; *U.S. Geol. Surv., Prof. Pap.* 843-A, 48 p.
- Ashley, R.P. and Keith, W.J.
1976: Distribution of gold and other metals in silicified rocks of the Goldfield mining district, Nevada; *U.S. Geol. Surv., Prof. Pap.* 843-B, 17 p.
- Ashley, R.P. and Silberman, M.L.
1976: Direct dating of mineralization at Goldfield, Nevada by potassium-argon and fission-track methods; *Econ. Geol.*, v. 71, p. 904-924.
- Aslaner, G. and Ottemann, J.
1972: Pure gold in the zinkenite ore veins in Toktamis of Ordu, northeast Anatolia; *Bull. Miner. Res. Explor. Inst. Turk.*, no. 78, p. 55-58. (Chem. Abstr., v. 79, 33631r.)
- Atabek'yants, K.P.
1972a: Primary haloes of gold sulphide deposits; *Sov. Geol.*, no. 1, p. 128-135.
1972b: Zoning of primary haloes and their relation to formation characteristics of the Yuzhnoe deposit (Uzbekistan); *Sov. Geol.*, no. 9, p. 98-109. (Chem. Abstr., v. 78, 18857e.) *Also* *Int. Geol. Rev.*, v. 15, no. 12, p. 1394-1402.
- Atanasov, V.A.
1975: Argentian mercurian tetrahedrite, a new variety, from the Chiprovtsi ore deposit, western Stara-Planina mountains, Bulgaria; *Mineral. Mag.*, v. 40, p. 233-237.
- Atkinson, S.
1619: The discoverie and history of the gold mynes in Scotland; G.L. Meason, ed., (1825) for the Ballantyne Club; James Ballantyne and Co., Printer, Edinburgh, 119 p.
- Aubert, G., Duong, P.K. and Geffroy, J.
1964: Sur la localisation de l'or dans le mineral du Châtelet (Creuse), *Soc. Fr. Mineral. Cristallogr., Bull.*, 87, p. 623-624.
- Auger, P.E.
1941: Zoning and district variations of the minor elements in pyrite of Canadian gold deposits; *Econ. Geol.*, v. 36, p. 401-423.
- Augustithis, S.S.
1967: On the textures and paragenesis of the gold-quartz-tourmaline veins of Ondonoc, W-Ethiopia; *Miner. Deposita (Berl.)*, v. 3, p. 48-55.

- Avdonin, V.N. and Vertushkov, G.N.
1955: Amethyst from the gold ore deposits of Berezovsk (Ural); Tr. Gorno-Geol. Inst., Akad. Nauk SSSR, Ural. Filiala, no. 26, p. 228-229. (Chem. Abstr., v. 51, 5645d.)
- Averill, C.V.
1946: Placer mining for gold in California; Calif. Div. Geol. Mines, Bull., 135, 377 p.
- Averin, Yu. A., Babaev, K.L., Markova, E.A. and Palei, L.Z.
1968: Types and distribution regularities of gold ore fields in central Asia; Osn. Probl. Metallogen. Tyan-Shanya, Tr. Vses. Metallogen. Soveshch., 5th, 1968, M.M. Adyshev, ed., Izd. "Ilim", Frunze, U.S.S.R., p. 400-405. (Chem. Abstr., v. 77, 22922u.)
- Aver'yanov, G.S., Dyshchuk, Yu. I. and Peregudov, V.V.
1974: Characteristics of gold ore manifestations in the western part of the southern Pamir gold-bearing belt; Akad. Nauk. Tadzh. SSR, Dokl., v. 17, no. 5, p. 45-47. (Chem. Abstr., v. 82, 5973x.)
- Babaev, K.L. and Abdukayumov, A.A.
1968: Genetic types of gold ore deposits and their distribution regularities in central Asia; Osn. Probl. Metallogen. Tyan-Shanya, Tr. Vses. Metallogen. Soveshch., 5th, 1968, M.M. Adyshev, ed., Izd. "Ilim", Frunze, U.S.S.R., p. 406-412. (Chem. Abstr., v. 77, 22944c.)
- 1974: Gold ore parageneses in quartz-biotite schists in Terekkan; Zap. Uzb. Otd. Vses. Mineral. O-va, v. 27, p. 138-141. (Chem. Abstr., v. 83, 100872t.)
- Babaev, K.L., Kochnev, E.A., Palei, L.Z. and Troitskii, Z.I.
1968: Formation conditions and character of distribution of placer deposits in Uzbekistan; Rud. Form. Osn. Cherty Metallogen. Zolota Uzb., I. Kh. Khamrabaev, ed., Izd. "Fan" Uzb. SSR, Tashkent, U.S.S.R., p. 276-290. (Chem. Abstr., v. 73, 37358f.)
- Babaev, K.L. and Palei, L.Z.
1968: Gold placer deposits in Uzbekistan; Rud. Form. Osn. Cherty Metallogen. Zolota Uzb., I. Kh. Khamrabaev, ed., Izd. "Fan" Uzb. SSR, Tashkent, U.S.S.R., p. 263-276. (Chem. Abstr., v. 73, 37357e.)
- Babička, J.
1943: Gold in living organisms; Mikrochemie Ver. Mikrochim. Acta, v. 31, p. 201-253 (in German).
- Babička, J., Komárek, J.M. and Němec, B.
1945: Gold in animal bodies; Acad. Tcheque Sci., Bull. Int., Cl. Sci., Math., Natur. Med., v. 45, p. 131-137.
- Babina, E.A.
1972: Gold ore mineralization in skarns of the Ampalyk deposit; Izv. Tomsk. Politekh. Inst., no. 201, p. 9-11. (Chem. Abstr., v. 80, 123226n.)
- Babkin, P.V., Goncharov, V.I. and Sidorov, A.A.
1973: Physicochemical analysis of the formation of volcanic (ore) deposits; Tr. Sev.-Vost. Kompleks. Inst., Dal'nevost. Tsentra, Akad. Nauk SSSR, no. 55, p. 185-191. (Chem. Abstr., v. 84, 7597t.)
- Babkin, P.V., Kalinin, A.I. and Struzhkov, F.E.
1974: A new type of gold-silver orebody; Akad. Nauk. SSSR, Dokl., v. 216, p. 619-621.
- Backman, O.L.
1948: Broulan mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 554-558.
- Bacon, W.R.
1975a: Lode gold deposits in western Canada; (Abstr.), Can. Inst. Min. Metall., Bull., v. 68, no. 762, p. 51.
1975b: Lode gold deposits in western Canada; in Proc. 5th Gold and Money Session and Gold Technical Session, Pacific Northwest Metals and Minerals Conference, Portland, Oregon, Oreg. Dept. Geol. Miner. Ind. publ., p. 139-163.
- Badalov, S.T.
1961: The geochemical relationship between indium and silver in zinc-silver-lead deposits; Geochemistry, no. 10, p. 1005-1009.
1965a: On the role of predominant components in the geochemistry of minor and rare elements of ore deposits; Geochem. Int., v. 2, no. 5, p. 857-860.
- 1965b: Some considerations on the genesis of gold-bearing quartz veins; Symp. Problems of Postmagmatic Ore Deposition, vol. 2 append., Acad. Sci. Czech., Prague, p. 104-106.
- 1966: Country rocks as a possible source of gold in endogenic quartz-gold deposits; Mineral. Geokhim. Sul'fidnykh Mestorozhd. Uzb., Akad. Nauk Uzb. SSR, Inst. Geol. Geofiz., p. 81-89. (Chem. Abstr., v. 66, 97395f.)
- 1972: The origin of gold concentrations in sulphides and its causes; Uzb. Geol. Zh., no. 2, p. 53-56.
- Badalov, S.T. and Badalova, R.P.
1967: Some regularities of distribution of gold and silver in the principal ore minerals of hypogene deposits of Karamazar and western Kazakhstan; Geochem. Int., v. 4, no. 4, p. 660-668.
- Badalov, S.T. and Rabinovich, A.V.
1966: The geochemistry of indium and thallium in the Karamazar ore region (the Uzbek and Tadzhik republics); Geochem. Int., v. 3, p. 1095-1101.
- Badalov, S.T. and Terekhov, S.L.
1966: Geochemistry of elements of the Pt group in the Almalk ore region; Akad. Nauk. SSSR, Dokl., v. 168, p. 1397-1399.
- Badalova, R.P.
1966: Main supergene minerals in the Uzbekistan gold-ore deposits and occurrences; Nauch. Tr., Tashkent. Gos. Univ., no. 273, p. 35-40. (Chem. Abstr., v. 67, 13727a.)
- Badalova, R.P. and Badalov, S.T.
1967: The standard of gold from hypogene ore deposits and occurrences of Uzbekistan; Akad. Nauk SSSR, Dokl., v. 173, no. 4, p. 914-916. (Acad. Sci. USSR, Dokl., Earth Sci. Sec., v. 173, nos. 1-6, p. 194-197.)
- Badalova, R.P., Bakieva, S.A., Meshchaninov, Ye.Z., Meshchaninova, G.S., Nikolaeva, L.A. and Yakovleva, L.I.
1971: The composition and internal structure of gold from the Amalyk area; Nauch. Zap. Tashkent. Univ., no. 405, p. 27-31.
- Badalova, R.P., Borozdin, V.G. and Nikolaeva, L.A.
1973: Relation between the behaviour of gold and its depth in ore manifestations of the Karzhantau Ridge; Nauch. Tr., Tashkent. Gos. Univ., no. 429, p. 49-52. (Chem. Abstr., v. 80, 50496p.)
- Badalova, R.P., Lebedeva, S.I., Yakovleva, L.I., Bakieva, S.A. and Nedoboi, V.F.
1973: Density of minerals in the gold-silver series; Zap. Uzb. Otd. Vses. Mineral. Obshechest., no. 26, p. 103-104. (Chem. Abstr., v. 80, 50368y.)
- Badalova, R.P. and Palei, L.Z.
1965: Main features of the metallogeny of gold in western Uzbekistan; Geol. Rud. Mestorozhd., v. 7, no. 5, p. 38-46. (Engl. Rev. in Econ. Geol., v. 63, p. 852.)
- Badalova, R.P., Popenko, G.S., Augustovskii, V.B. and Abramov, Yu. F.
1972: Mineral composition of gold-bearing Quaternary placers of the Pskem River basin; Nauch. Tr., Tashkent. Gos. Univ., no. 429, p. 53-57. (Chem. Abstr., v. 80, 85654r.)
- Badalova, R.P., Popenko, G.S. and Tsypkina, P.E.
1970: Morphology of native and placer gold illustrated by deposits in western Uzbekistan; Nauch. Tr., Tashkent. Gos. Univ., no. 372, p. 31-34. (Chem. Abstr., v. 74, 144514w.)
- Badone, L. and Spence, N.S.
1960: Physical metallurgy and uses of gold; Can., Dep. Mines Tech. Surv., Mines Br., Inform. Circ., 116, 86 p.
1961: Physical metallurgy and uses of gold; Can., Dep. Mines Tech. Surv., Mines Br., Inform. Circ., 129, 192 p.
- Baedecker, P.A.
1967: The distribution of gold and iridium in meteoritic and terrestrial materials; U.S. At. Energy Comm. (Pub.) ORO-2670-17, 110 p. (Ph.D. thesis, Univ. Kentucky, Lexington, Ky.)

- Baedecker, P.A., Chou, C.-L., Grudewicz, E.B. and Wasson, J.T.
1973: Volatile and siderophilic trace elements in Apollo 15 samples: geochemical implications and characterization of the long-lived and short-lived extralunar materials; *in* Proc. 4th Lunar Sci. Conf., *Geochim. Cosmochim. Acta*, Suppl. 4, v. 2, p. 1177-1195.
- Baedecker, P.A., Chou, C.-L., Sundberg, L.L. and Wasson, J.T.
1972: Extralunar materials in Apollo 16 soils and the decay rate of the extralunar flux 4.0 GY ago; *Earth Planet. Sci. Lett.*, v. 17, p. 79-83.
1974: Volatile and siderophilic trace elements in the soils and rocks of Taurus-Littrow; *in* Proc. 5th Lunar Sci. Conf., *Geochim. Cosmochim. Acta*, Suppl. 5, v. 2, p. 1625-1643.
- Baedecker, P.A. and Ehmann, W.D.
1965: The distribution of some noble metals in meteorites and natural materials; *Geochim. Cosmochim. Acta*, v. 29, p. 329-342.
- Bagdavadze, N.V., Barbakadze, L.V., Ginturi, E.N., Kuchava, N.E., Mosulishvili, L.M. and Kharabadze, N.E.
1965: Radioactivation method for determination of gold in blood; *Akad. Nauk Gruz. SSR, Soobshch. (Bull. Acad. Sci. Georgian SSR)*, v. 39, pt. 2, p. 287-294. (*Chem. Abstr.*, v. 64, 5439b.)
- Bailes, A.H.
1971: Geology and geochemistry of the Pilot-Smuggler Shear Zone, Rice Lake region, southeastern Manitoba; *in* Geology and geophysics of the Rice Lake region, southeastern Manitoba (Project Pioneer); *Man. Mines Br., Publ.* 71-1, p. 229-311.
- Bailey, G.B. and Williams, K.L.
1975: The genesis and economic potential of gold-bearing jasperoids in the central Drum Mountains, Utah; *Econ. Geol.*, v. 70, p. 1317 (abstr.).
- Baimukhamedov, Kh. N., Karimov, Kh. K. and Protasevich, L.N.
1975a: Gold- and scheelite-bearing skarn-like formations in the sedimentary-metamorphic Precambrian strata in the central Kyzylkum (south of Tamdytau); *Uzb. Geol. Zh.*, v. 19, no. 4, p. 3-6. (*Chem. Abstr.*, v. 84, 20419f.)
1975b: Rare metal epidote-pyroxene-amphibolic metasomatites of the gold-ore deposit of Muruntau; *Akad. Nauk Uzb. SSR, Dokl.*, v. 32, no. 5, p. 48-49. (*Chem. Abstr.*, v. 84, 108660p.)
- Baimukhamedov, Kh. N., Yusupov, R.G., Batyrmukhamedov, A.K. and Borodin, Yu. V.
1972: Metallogenic aspects of gold-containing granitic rocks; *Uzb. Geol. Zh.*, v. 16, p. 21-25. (*Chem. Abstr.*, v. 78, 162100v.)
- Bain, G.W.
1930: Structure of gold-bearing quartz in northern Ontario and Quebec; *Am. Inst. Min. Metall. Eng., Tech. Publ.*, no. 327, 44 p.
1933: Wall-rock mineralization along Ontario gold deposits; *Econ. Geol.*, v. 28, p. 705-743.
1960: Patterns of ores in layered rocks; *Econ. Geol.*, v. 55, p. 695-731.
- Bain, H.R., ed.
1911: Types of ore deposits; Mining Scientific Press, San Francisco and Mining Magazine, London, 378 p.
- Baker, J.W. and Geological Staff.
1957: Kerr-Addison mine; *in* Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 392-402.
- Baldock, J.W., Hepworth, J.W. and Marengwa, B.S.
1976: Gold, base metals, and diamonds in Botswana; *Econ. Geol.*, v. 71, p. 139-156.
- Bandy, M.C.
1940: A theory of mineral sequence in hypogene ore deposits; *Econ. Geol.*, v. 35, p. 359-381, 546-570.
- Banister, D.P.
1970: Geochemical investigations for gold, antimony, and silver at Stibnite, Idaho; *U.S. Bur. Mines, Rep. Invest.* 7417, 7 p.
- Barannikov, A.G. and Shub, I.Z.
1970: Relation of placer gold with native sources as exemplified by the southern Urals deposits; *Tr. Sverdlovsk. Gorn. Inst.*, no. 74, p. 9-14. (*Chem. Abstr.*, v. 78, 126877v.)
- Baranov, I. Ya. and Stativkin, E.V.
1972: Auriferous mineral associations on the Tynnyauz ore field; *Mineral-Petrogr. Geokhim. Issled. Sev. Kavkase Donbasse, I.A. Shamrai, ed., Izv. Rostov. Univ., Rostov-on-Don, U.S.S.R.*, p. 57-69. (*Chem. Abstr.*, v. 81, 138602b.)
- Barbieri, D.
1935: Experimental researches on the gold-bacteria and gold-toxin complexes; *Boll. Soc. Int. Microbiol. Sez. Ital.*, v. 7, p. 452-456. (*Chem. Abstr.*, v. 30, 3851-2.)
- Barbosa, A.F., Abrahao, B. and Arroyo, A.
1948: Notas sobre o minerio da mina de Passagem, MG; *Min. Metal.*, v. 13, no. 74, p. 101-110.
- Barbosa, A.L.M.
1968: Geologia do Quadrilátero Ferrífero; XXII Congr. Brasil. Geol. Belo Horizonte, Roteiros das Excursões, p. 2-6.
- Barbosa, A.L.M., Grossi Sad, J.H. and Dorr, J.V.N.
1974: The "consanguineous" origin of a tourmaline-bearing gold deposit: Passagem de Mariana (Brazil); *Econ. Geol.*, v. 69, p. 416-419.
- Bariand, P. and Pelissier, G.
1972: Origine de l'or de Zarehshuran (Iran occidental). Paragenèse à pyrite aurifère avec orpiment et sulfures d'antimoine; *Soc. Fr. Minéral. Cristallogr., Bull.*, v. 95, p. 625-629.
- Barker, F.
1969: Gold investigations in Precambrian clastic and pelitic rocks, southwestern Colorado and northern New Mexico; *U.S. Geol. Surv., Bull.* 1272-F, 22 p.
- Barkhudaryan, N.B. and Grebenchikov, A.M.
1974: Evaluation of the gold content in gold-bearing quartz veins; *U.S.S.R. patent* 438,888. (*Chem. Abstr.*, v. 82, 67884c.)
- Barkovskaya, M.B.
1963: Some features of the formation of economic grade heavy minerals concentration in basins of deposition; *Geol. Rud. Mestorozhd.* v. 5, p. 50-64. *Also Econ. Geol.*, v. 58, p. 1357-1358, 1963.
- Barnes, H.L.
1962: Mechanisms of mineral zoning; *Econ. Geol.*, v. 57, p. 30-37.
- Barnes, H.L. ed.
1967: Geochemistry of hydrothermal ore deposits; Holt, Rinehart and Winston Inc., New York, 670 p.
- Barnett, P.R., Skinner, D.L. and Huffman, C.
1968: Determination of gold, platinum, and palladium by a combined fire-assay, ion-exchange, and spectrochemical technique; *U.S. Geol. Surv., Prof. Pap.* 600-C, p. C161-C163.
- Barrass, P.F.
1975: Platinoid minerals in the gold reefs of the Witwatersrand Basin; *Inst. Min. Metall., Trans.*, v. 84 (Bull. no. 822), p. B-70 (abstr.).
- Barrett, R.W. and Johnston, A.W.
1948: Central Patricia mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 368-372.
- Barsanov, G.P.
1945: The structures of quartz and ore composition of the auriferous veins of the Miass region of the southern Urals; *Akad. Nauk SSSR, Izv., Ser. Geol.*, no. 2, p. 74-86. (*Chem. Abstr.*, v. 39, 4817.)
- Barton, M.D., Kieft, C., Burke, E.A.J. and Oen, I.S.
1978: Uytienbogaardite, a new silver-gold sulphide; *Can. Mineral.*, v. 16, p. 651-657.
- Barton, P.B.
1971: The Fe-Sb-S system; *Econ. Geol.*, v. 66, p. 121-132.

- Bartram, G.D. and McCall, G.J.H.
1971: Wall-rock alteration associated with auriferous lodes in the Golden Mile, Kalgoorlie; *Geol. Soc. Aust., Spec. Publ.*, no. 3, p. 191-199.
- Baskakov, M.P. and Chebotarev, G.M.
1972: Possible forms of gold fixation in placers; *Akad. Nauk Uzb. SSR, Dokl.*, v. 29, p. 40-42. (*Chem. Abstr.*, v. 78, 74705r.)
- Baskakova, M.P.
1970: Organic matter in gold-ore quartz veins in the Kyzyl-Kum sands; *Akad. Nauk Uzb. SSR, Dokl.*, v. 27, no. 11, p. 47-48. (*Chem. Abstr.*, v. 75, 8417k.)
- Bastin, E.S.
1915: Experiments with colloidal gold and silver; *Wash. Acad. Sci., J.*, v. 5, p. 64-71.
1922: Bonanza ores of the Comstock Lode, Virginia City, Nevada; *U.S. Geol. Surv., Bull.* 735, p. 41-63.
- Bastin, E.S. and Laney, F.B.
1918: The genesis of the ores at Tonopah, Nevada; *U.S. Geol. Surv., Prof. Pap.* 104, 50 p.
- Bate, L.C. and Dyer, F.F.
1965: Trace elements in human hair; *Nucleonics*, v. 23, p. 74-81.
- Bateman, A.M.
1950: *Economic mineral deposits*, 2nd ed.; John Wiley & Sons, Inc., New York, 916 p.
- Bateman, J.D.
1940: Rock alterations in the Uchi gold area; *Econ. Geol.*, v. 35, p. 382-404.
1952: Some geological features at Giant Yellowknife; *Geol. Assoc. Can., Proc.*, v. 5, p. 95-107.
1958: Uranium-bearing auriferous reefs at Jacobina, Brazil; *Econ. Geol.*, v. 53, p. 417-425.
- Bateson, J.H.
1965: Geochemical breakthrough in mineral prospection in British Guiana; *Can. Min. J.*, v. 86, no. 12, p. 71-73.
- Battiston, U. and Moauro, A.
1974: Determination of the total content of silver, arsenic, gold, cobalt, rhenium, antimony, uranium and zinc in natural waters by neutron activation analysis; *Com. Naz. Energ. Nucl., RT-CHI 74(8)*, 31 p. (*Chem. Abstr.*, v. 82, 47566x.)
- Bauer, F.K. and Schermann, O.
1971: Über eine Peckblende-Gold-Paragenese aus dem Bergbau Mitterberg, Salzburg (ein Vorbericht); *Sond. Verhand. Geol. Bund.*, Heft 4, s. A97-A100.
- Bauer, R. and Schaudy, R.
1970: Activation analytical determination of elements in meteorites, 3. Determination of manganese, sodium, gallium, germanium, copper and gold in 21 iron meteorites and 2 mesosiderites; *Chem. Geol.*, v. 6, p. 119-131.
- Baumshtein, R.A. and Grigor'ev, N.G.
1969: Characteristics of primary dispersion haloes in the Kozlovsk gold ore deposit; *Zap. Zabaikal. Filiala Geogr. Obshchest. SSSR*, no. 36, p. 92-97. (*Chem. Abstr.*, v. 77, 116687y.)
- Baur, E.
1942: Sur la signification et le dosage de l'or des eaux marines; *Bull. Inst. Oceanogr.*, no. 830.
- Baxter, R.A. and Poet, S.E.
1964: Geochemical prospecting for gold telluride ores; *Mines Mag.*, v. 54, p. 27-28.
- Bayley, R.W. and Janes, W.W.
1961: Geochemical surveying for gold veins in the Atlantic district, Wyoming; *U.S. Geol. Surv., Prof. Pap.* no. 424-D, p. 332-333.
- Bayramgil, O.
1945: Mineralogische Untersuchung der Erzlagerstätte von Isikdag (Türkei); *Schweiz. Mineral. Petrog. Mitt.*, Bd. 25, H. 1, p. 23-113.
- Beamish, F.E.
1966: *The analytical chemistry of the noble metals*; Pergamon Press, Oxford, 608 p.
- Beamish, F.E. and Van Loon, J.C.
1972: The present status of methods of separating and determining the noble metals; *Miner. Sci. Eng.*, v. 4, p. 3-17.
1977: *Analysis of noble metals, overview and selected methods*; Academic Press, New York, 327 p.
- Beard, R.C. and Garratt, G.L.
1976: Gold deposits of the Kenora-Fort Frances area; *Ont. Div. Mines, Miner. Deposit Circ.* 16, 46 p.
- Beck, R.
1905: *The nature of ore deposits*, vols. 1 and 2; Eng. Min. J., New York and London.
- Becker, G.F.
1882: *Geology of the Comstock Lode and the Washoe district*; *U.S. Geol. Surv., Monogr.* 3, 422 p.
1887: Natural solution of cinnabar, gold and associated sulfides; *Am. J. Sci., Ser. 3*, v. 33, p. 199-210.
1895: Gold fields of the southern Appalachians; *U.S. Geol. Surv., 16th Annu. Rep.*, 1894-1895, p. 251-331.
1898: Reconnaissance of the gold fields of southern Alaska, with some notes on general geology; *U.S. Geol. Surv., Annu. Rep.*, no. 18, pt. 3, p. 1-86.
- Beda, V.D. and Kucherova, M.A.
1970: Gold content in Kamchatka rocks; *Vop. Geol., Geokhim. Metallogen. Sev.-Zap. Sekt. Tikhookean. Poyasa, Mater. Nauch. Sess. 1969, I.N. Govorov, ed., Dal'nevost. Geol. Inst., Vladivostok, U.S.S.R.*, p. 210-212. (*Chem. Abstr.*, v. 75, 79221c.)
- Beevers, J.R.
1967: A method for the determination of the gold content of samples by solvent extraction and atomic absorption spectrophotometry; *Econ. Geol.*, v. 62, no. 3, p. 426-428.
- Béland, J.
1957: St. Magloire and Rosaire-St. Pamphile areas; *Que. Dep. Mines, Geol. Surv. Br., Geol. Rep.* 76, 49 p.
- Beleva-Naumova, S. and Dancheva, R.
1972: Atomic-adsorption method for determination of gold; *Rudodobiv.* v. 5., p. 25-28. (*Chem. Abstr.*, v. 80, 55535k.)
- Belevtsev, Ya. N.
1970: Sources of metals of metamorphic-hydrothermal deposits; in *Problems of hydrothermal ore deposition*, Z. Pouba and M. Stempok, eds., *Int. Union Geol. Sci., ser. A*, no. 2, Schweizerbart'sche, Stuttgart, p. 30-35.
- Belevtsev, Ya. N., Fomenko, V. Yu., Kucher, V.N. and Kuzenko, S.V.
1972: Mobilization of metals from sedimentary and metamorphic rocks by aqueous solutions; *Geol. Zh.*, v. 32, no. 3, p. 42-51.
- Bell, A.M.
1948: Hallnor mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 547-553.
- Bell, H.
1960: A synthesis of geological work in the Concord area, North Carolina; *U.S. Geol. Surv., Prof. Pap.* 400-B, p. B 189-B 191.
1973: Some results of geochemical sampling in McCormick County, South Carolina; *U.S. Geol. Surv., Bull.* 1376, 22 p.
- Bell, J.M.
1906: The salient features of the economic geology of New Zealand; *Econ. Geol.*, v. 1, p. 735-750.
1924: Carbonaceous matter at Porcupine (1) — its geological occurrence; *Inst. Min. Metall.*, v. 33, p. 459-464.
- Bell, J.M. and Fraser, C.
1912: The geology of the Waihi-Tairua subdivision, Hauraki division; *N.Z., Geol. Surv., Bull.* 15 (new ser.), 192 p.
- Bell, J.P.
1961: The gold-bearing deposits of the Potaro River down stream of Tumatumari, British Guiana; *Proc. 5th Inter-Guiana Geol. Conf.*, p. 267-272.

- Bell, L.V.
1948: Caribou mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 927-936.
- Belogolova, G.A. and Shibanov, V.A.
1974: On the secondary dispersion halos of deposits in the eastern Lena gold district and the use of the drill UPB-25; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1973, L.V. Tauson, ed., p. 251-253.
- Belokon, V.G., Blank, M. Ya., Nikitin, N.M., Sidenko, O.G., Trushin, I.A. and Yasyrev, A.P.
1974: Placer gold of Meso-Cenozoic formations of the northern outlying regions of the Donets Basin; *Geol. Zh.*, v. 34, no. 4, p. 109-113. (Chem. Abstr., v. 82, 19496f.)
- Belt, T.
1861: Mineral veins: an enquiry into their origin founded on a study of the auriferous quartz veins of Australia; John Weale Publisher, London, 52 p.
- Belyaev, K.D., Karpov, R.V. and Yakovlev, I.A.
1972: Gold content of amphibolites in the Olenii Ridge and characteristics of geochemical prospecting for gold; *Nauch. Osn. Geokhim. Metod. Poiskov Mestorozhd. Polez. Iskop. Ots. Potentsialnoi Rudonos. Magmat. Metamorf. Kompleks.* p. 170-3 (in Russian) L. N. Ovchinnikov, ed. (Chem. Abstr., v. 81, 80490v.)
- Bendik, A.T. and Nesterova, N.P.
1971: Gold-silver mineralization in the Muruntau deposit and in the Muruntau region; *Uzb. Geol. Zh.*, v. 15, no. 4, p. 75-77. (Chem. Abstr., v. 77, 8217m.)
- Benedict, P.C.
1948: Island Mountain mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 149-162.
- Benedict, P.C. and Titcomb, J.A.
1948: Northern Empire mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 389-399.
- Beneš, P.
1967: On the state of manganese and gold traces in aqueous solutions; *J. Inorg. Nucl. Chem.*, v. 29, p. 2889-2898.
- Beneš, P. and Riedel, A.
1967: Adsorption and desorption of manganese and gold on semiconductor silicon; *Collect. Czech. Chem. Commun.*, v. 32, p. 2547-2556.
- Beneš, P. and Singer, J.
1968: Sorption of manganese and gold on paper; *Collect. Czech. Chem. Commun.*, v. 33, p. 1508-1521.
- Benitez, F.
1959: Floating Chile's oxidized gold ores (in 2 parts); *Eng. Min. J.*, v. 160, nos. 5-6, p. 106-112, 116-122.
- Bennett, R.
1971: Exploration for hydrothermal mineralization with airborne gamma-ray spectrometry; in *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 475-478.
- Bensusan, A.J.
1929: Auriferous Jacutinga deposits; *Inst. Min. Metall., Trans. (London)*, v. 38, p. 450-483.
1942: Two unusual gold occurrences; *Chem. Eng. Min. Rev.*, v. 34, no. 402, p. 178.
- Berg, G.
1929: *Vorkommen und Geochemie der mineralischen Rohstoffe*; Leipzig, 414 p.
1932: *Das Vorkommen der chemischen Elemente auf der Erde*; Leipzig, J.A. Barth, 204 p.
- Berg, H.C. and Cobb, E.H.
1967: Metalliferous lode deposits of Alaska; *U.S. Geol. Surv., Bull.* 1246, 254 p.
- Berg, R.
1928: *Das allgemeine Vorkommen von Gold in Nahrungsmitteln und Organen*; *Biochem. Z.*, v. 198, p. 424-427.
- Bergendahl, T.J.
1975: The oxidation states of gold; *J. Chem. Educ.*, v. 52, p. 731-732.
- Berger, B.R.
1975: Trace element variations associated with disseminated gold mineralization at the Getchell mine, Humboldt County, Nevada; *Econ. Geol.*, v. 70, p. 1318 (abstr.).
- Berger, B.R., Silberman, M.L. and Koski, R.A.
1975: Discussion on K-Ar relations of granodiorite emplacement and tungsten and gold mineralization near the Getchell mine, Humboldt County, Nevada — a reply; *Econ. Geol.*, v. 70, p. 1487-1491.
- Berger, V.I. and Kuz'min, V.G.
1975: Age-related position of gold-antimony mineralization of the Yana-Kolyma belt; *Akad. Nauk SSSR, Dokl.*, v. 224, p. 165-167. (Chem. Abstr., v. 84, 108859k.)
- Beridze, G.I., Macharashvili, G.R. and Mosulishvili, L.M.
1969: Quantitative determination of the gold content in certain wines by the neutron activation method; *Sov. Radiochem.*, v. 11, no. 6, p. 713-715 (transl. by Consultants Bureau, New York).
- Berman, Yu. S. and Gorelyshev, A.V.
1974: Gold-silver ratios exemplified by a gold-silver deposit of the northeastern part of the U.S.S.R.; *Geokhim.*, no. 11, p. 1613-1621. (Chem. Abstr., v. 82, 142826r.)
- Berman, Yu. S., Volarovich, G.P. and Kazarinov, A. I.
1973: Mineralogical-geochemical characteristics of gold deposits developed at shallow depths; *Int. Geol. Rev.*, v. 15, p. 784-790.
- Berndt, A.F. and Cummins, J.D.
1970: The crystal structure of the Au₂Hg phase; *Acta Crystallogr.*, v. B26, pt. 6, p. 864-867.
- Bernhard, J.
1966: *Die Mitterberger Kupferkieslagerstätte Erzführung und Tektonik*; *Jahrb. Geol. B.A.*, Bd. 109, s. 1-90, Vienna.
- Bertolani, M. and Sighinolfi, G.P.
1964: Metalliferous mineralization of the gold deposit of Cani in the valley of Anzasca (Novara), Italy; *Rend. Soc. Mineral. Ital.*, v. 20, p. 71-82. (Chem. Abstr., v. 62, 1457b.)
- Bertrand, G.
1932: Peut-on compter l'or parmi les éléments de la matière vivante? *Bull. Soc. Chim. Fr.*, 4e sér., t. 51, p. 564-568.
- Berry, L.G. and Thompson, R.M.
1962: X-ray powder data for ore minerals: The Peacock Atlas; *Geol. Soc. Am., Mem.* 85.
- Berzon, R.O.
1973: Rare minerals from the Byn'govsk gold ore deposit; *Issled. Obl. Rud. Miner.*, p. 48-60. (Chem. Abstr., v. 80, 62017w.)
- Berzon, R.O. and Bushlyakov, I.N.
1971: Gold/silver ratios in ores of the Ben'govskoye ore deposit in the central Urals; *Geol. Rud. Mestorozhd.*, v. 13, no. 6, p. 96-97.
- Berzon, R.O. and Karyshev, Yu. M.,
1973: Selenium and tellurium in gold ore deposits of the Urals; *Geokhim.*, no. 11, p. 1615-1619. (Chem. Abstr., v. 80, 62143j.)
- Beske, H.E.
1974: Trace analysis of gold and platinum by spark mass spectroscopy; *Eurisotop Off. Inform. Booklet* no. 72, p. 657-695. (Chem. Abstr., v. 82, 164419n.)
- Bethke, P.M., Barton, P.B., Lanphere, M.A. and Steven, T.A.
1976: Environment of ore deposition in the Creede mining district, San Juan Mountains, Colorado: II. Age of Mineralization; *Econ. Geol.*, v. 71, p. 1006-1011.
- Bethke, P.M., Barton, P.B. and Rye, R.O.
1973: Hydrogen, oxygen and sulfur isotopic compositions of ore fluids in the Creede district, Mineral County, Colorado; *Econ. Geol.*, v. 68, p. 1205 (abstr.).

- Beus, A.A. and Grigorian, S.V.
1977: Geochemical exploration methods for mineral deposits; A.A. Levinson, ed., transl. R. Teteruk-Schneider, Applied Publishing Ltd., Wilmette, Illinois, 287 p.
- Bevan, P.A.
1973: Rosita mine — a brief history and geological description; *Can. Inst. Min. Metall., Bull.* v. 66, no. 736, p. 80–84.
- Beyschlag, F., Vogt, J.H.L. and Krusch, P. (transl., S.J. Truscott)
1914: The deposits of the useful minerals and rocks, v. 1; MacMillan and Co., Ltd., London, 514 p.
1916: The deposits of the useful minerals and rocks, v. 2; MacMillan and Co., Ltd., London, p. 515–1262.
- Beziranov, E.G.
1969: Use of endogenic geochemical haloes of arsenic in prospecting for gold lodes (illustrated by a gold deposit of the Lesser Caucasus); *Uch. Zap., Erevan. Gos. Univ.*, no. 1, p. 169–176. (Chem. Abstr., v. 73, 79376r.)
- Bezverkhni, M.P. and Baumshtein, R.A.
1973: Characteristics of the comparative mobility of elements in supergene haloes of rare metal and gold ore deposits; *Zap. Zabaikal. Filiala Geogr. O-va. SSSR*, v. 89, p. 39–40. (Chem. Abstr., v. 85, 66065m.)
- Bichan, W.J.
1944: Gold deposition; *Econ. Geol.*, v. 39, p. 234–241.
1947: The ubiquity of gold values and their relation to zones of tensional dilation; *Econ. Geol.*, v. 42, p. 396–403.
- Bilibin, Yu. A.
1938: The principles of placer geology; G.O.N.T.I. (State Joint Scientific and Technical Publishing House) Moscow-Leningrad, 505 p.
1947: Metallogensis of gold; *Zap. Vses. Mineral. Obshchest.*, Ser. 2, v. 76, p. 77–91 (in Russian).
1950: On geochemical types of orogenic zones; 18th Int. Geol. Congr., Great Britain, Pt. II, Sec. A., p. 22–28.
1955: Metallogenic provinces and metallogenic epochs; *Gosgeoltekh.*, Moscow, 85 p. (in Russian).
- Billingsley, P.
1926: Geology of the Zaruma gold district of Ecuador; *Am. Inst. Min. Eng., Trans.*, v. 74, p. 255–275.
- Billingsley, P. and Hume, C.B.
1941: The ore deposits of Nickel Plate Mountain, Hedley, B.C.; *Can. Inst. Min. Metall., Trans.*, v. 44, p. 524–590.
- Bindermann, N.N. and Grabeklis, R.V.
1964: Relation of gold and molybdenum mineralizations in south-western part of the Transbaikal gold-molybdenum belt; *Akad. Nauk. SSSR, Dokl.*, v. 159, no. 6, p. 1290–1292. (Chem. Abstr., v. 62, 6270d.)
- Bishopp, D.W.
1962: Metallogenic provinces and maps—a first approach; *Geol. Surv., S. Afr., Annals*, v. 1, p. 163–168.
1964: The mode of origin of banket deposits, discussion; *Inst. Min. Metall., Trans.*, v. 74, no. 704, p. 658–659.
- Blackadar, R.G.
1967: Kodlunarn Island and Frobisher's "Gold"; *Arctic Circular*, v. 17, no. 1, p. 1–12.
- Blagonadezhdin, B.I.
1972: Kalana gold ore deposit in the Republic of Mali; *Tr. Voronezh. Gos. Univ.*, v. 86, p. 71–74. (Chem. Abstr., v. 81, 155820p.)
1975: Gold mineralization in relation to tectonics and magmatism, as in the northwestern margin of Birrim gold belt, west Africa; *Int. Geol. Rev.*, v. 17, p. 1080–1090.
- Blais, R.A.
1954: A petrologic and decrepitometric study of the gold mineralization at the O'Brien mine, northwestern Quebec; unpubl. Ph.D. thesis, Univ. Toronto, Toronto, 292 p.
- Blainey, G.
1969: The rush that never ended, 2nd ed.; Melbourne University Press, Melbourne, Australia, 389 p.
- Blake, W.P.
1897: Gold in granite and plutonic rocks; *Am. Inst. Min. Eng., Trans.*, v. 26, p. 290–298.
- Blakemore, K.
1971: The book of gold; Stein and Day Publishers, New York, 224 p.
- Blanchard, R.
1933: Chemical migration: Post mine phenomena in New Guinea; *Eng. Min. J.*, v. 134, p. 365–368, 425–428.
- Blatchford, A.
1953: Geology of the Tavua goldfield, Viti Levu, Fiji; *Proc. Aust. Inst. Min. Metall.*, nos. 168–169, p. 13–51.
- Blockley, J.G.
1974: Notes on the Paterson Range gold prospects; *Geol. Surv. W. Aust., Annu. Rep.* 1973, p. 71–73.
- Blokhina, N.A.
1972: Occurrence of gold in skarn deposits of the southern Gissar Range; *Akad. Nauk. Tadjh. SSR, Dokl.*, v. 15, no. 10, p. 38–40. (Chem. Abstr., v. 78, 162083s.)
1974: Boron mineralization in skarns of gold sulphide deposits of the Tarorsk group in central Tadzhikistan; *Akad. Nauk. Tadjh. SSR, Dokl.*, v. 17, no. 8, p. 47–50. (Chem. Abstr., v. 82, 173624c.)
- Blomfield, A.L., Rood, H.S., Crocker, B.S. and Williamson, C.L.
1936: Milling-investigations into the ore as occurring at the Lake Shore mine; *Can. Inst. Min. Metall., Trans.*, v. 39, p. 279–434.
- Blyumentsev, A.M., Khrust, A.R. and Chepizhnaya, E.A.
1974: Radioactive elements as indicators of gold in effusives; *Yad. Geol.*, p. 187–197. (Chem. Abstr., v. 83, 100886a.)
- Bobkov, A.I.
1969: Geochemical criteria for determination of initial rock composition in metasomatites of Kuranakh ore field; *Rudobrazov. Ego Syaz Magmat.*, p. 160–161. (Chem. Abstr., v. 73, 37362c.)
- Bobrievich, A.P., Gritsik, E.P. and Gritsik, V.V.
1971: Gold content of the Chivchinsk Mountains and Ciscarpathia; *Tr. Inst. Miner. Res., Akad. Nauk Ukr. RSR*, no. 4, p. 75–81. (Chem. Abstr., v. 79, 68594h.)
- Boericke, W.F.
1933: Prospecting and operating small gold placers; John Wiley & Sons, Inc., New York, 136 p.
- Boev, N.I.
1971: Hydrogeochemical criteria for exploration work in the Beregova district of the Trans-Carpathian region; *Geol. Zh.*, v. 31, no. 1, p. 68–78.
- Bogach, V.A.
1973: Gold ore mineralization associated with tourmaline-quartz-amphibole metasomatites; *Mater. Respubl. Nauch. Teor. Konf. Molod. Geol. Kaz. SSR 3rd*, p. 51–52. (Chem. Abstr. 83, 208413h.)
- Bogdanovich, V.A.
1974: Primary zonality of Soviet gold bearing deposits and its practical significance; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, v. 145, p. 88–93. (Chem. Abstr., v. 83, 82754z.)
- Bolarovich, G.P.
1972: Prospects for revealing subsurface gold-ore deposits related to volcanogenic formations; *Sov. Geol.*, no. 11, p. 74–85.
- Bolotnikova, I.V.
1969: Particle size distribution of gold in secondary dispersion haloes over gold-sulfide deposits in the Maikainsk ore field; *Metod. Tekh. Razved.*, no. 64, p. 91–92. (Chem. Abstr., v. 72, 113684f.)
- Bolter, E. and Al-Shaieb, Z.
1971: Trace-elements anomalies in igneous wall rocks of hydrothermal veins; in *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., *Can. Inst. Min. Metall., Spec. Vol.* 11, p. 289–290.

- Bonev, P.K.
 1969: Quelques changements métasomatiques et minéralisations prémétallifères dans les gisements or-polymétallique Bakadjik, près de Jambol; Ann. Ecole Sup. Mines Geol., Sofia Fasc. II. Géologie, Tom. XVI, p. 27–38.
 1974: Ore formation and origin of gold polymetallic deposits in Bakadjik, Bulgaria; Abstracts of Papers, Int. Assoc. Genesis Ore Deposits (IAGOD), 4th Symp., p. 85–86.
 1976: Ore formation and genesis of the Bakadjik gold-polymetallic deposit, south-eastern Bulgaria; in Problems of Ore Deposition, v. 1, Volcanogenous ore deposits, 4th IAGOD Symp., Varna, B. Bogdanov, ed., Bulg. Acad. Sci., Sofia, p. 226–232.
- Bonham, H.F. and Garside, L.J.
 1974: Tonopah mining district and vicinity, Nevada; Nev., Bur. Mines, Rep., v. 19, p. 42–48. (Chem. Abstr., v. 82, 173551b.)
- Boorman, R.S. and Abbott, D.
 1967: Indium in co-existing minerals from the Mount Pleasant tin deposit; Can. Mineral., v. 9, p. 166–179.
- Borchers, R.
 1961: Exploration of the Witwatersrand System and its extensions; Geol. Soc. S. Afr., Trans. (Annex.), v. 64, p. LXVII–XCIII.
 1964: Exploration of the Witwatersrand system and its extensions; in The geology of some ore deposits in southern Africa, vol. I, S.H. Haughton, ed., Geol. Soc. S. Afr., Johannesburg, p. 1–23.
- Borchert, H.
 1935: Neue Beobachtungen an Tellurerzen; Neues Jahr. Mineral. Geol. Palaeontol., v. 69, p. 460–477.
- Borcos, M., Gheorghita, I., Lang, B. and Russo, D.
 1972: Metallogenetic activity associated with quartz andesites in the southern part of the Gutii Mountains; Stud. Teh. Econ., Inst. Geol. (Rom), ser. 1, v. 6, p. 89–120. (Chem. Abstr., v. 80, 17450w.)
- Borcos, M. and Stanciu, C.
 1974: Hydrothermal alteration of quartz-bearing andesite in the Hanes deposit (Metalliferous mountains); Bull. 6th Congr. Assoc. Geol. Carpatho-Balk., 1963, v. 4, p. 813–828. (Chem. Abstr., v. 85, 23678w.)
- Bordonosov, V.P.
 1974: Prospecting for metasomatic gold ores in the contact zone of Kalamín plutonic rocks; Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya, v. 145, p. 124–126. (Chem. Abstr., v. 83, 82755a.)
- Borisenko, L.F.
 1961: Scandium: principal features of the geochemistry, mineralogy, and genetic types of its deposits; Moscow, Izdatel'stvo AN SSSR, 130 p. (in Russian). (Transl. from the Russian by Consultants Bureau, New York, 78 p.)
- Borisenko, L.F., Miller, A.D. and Fisher, E.I.
 1972: The abundance of gold in ultra-basic rocks; Geochem. Int., v. 1972, nos. 1–2, p. 121–128.
- Borisenko, L.F. and Uskov, E.D.
 1971: Gold content of ultrabasic rocks of the Gusevogorsk massif (Urals); Akad. Nauk SSSR, Dokl., v. 201, no. 2, p. 450–452. (Chem. Abstr., v. 76, 48193m.)
- Borisenok, L.A.
 1970: Geochemistry of gallium; MGU Press, Moscow (in Russian.)
- Borodaevskaya, M.E. and Rozhkov, I.S.
 1974: Gold deposits; in Ore deposits of the U.S.S.R., V.I. Smirnov, ed., v. 3, p. 5–77, "Nedra" Moscow.
- Borodaevskii, N.I.
 1962a: Regularities in the distribution, genesis, and types of gold-bearing shows of Kalba; Tr. Tsent. Nauch. Issled. Gornorazved. Inst., no. 41, p. 87–100. (Chem. Abstr., v. 58, 9968h.)
 1962b: Genetic types of gold deposits; Tr. Tsent. Nauch. Issled. Gornorazved. Inst., no. 50, p. 3–15. (Chem. Abstr., v. 61, 5371a.)
- Borodaevskii, N.I. and Kityukin, P.I.
 1939: Origin of vein fractures of the Berezov gold-ore deposits; Sov. Geol., v. 9, no. 2, p. 81–84.
- Borodin, O.P. and Taraseich, Yu. N.
 1972: Placer gold in the Cenozoic formations of Sakhalin; Vop. Geol. Rud. Mestorozhd. Dal'nego Vostoka, G.I. Osipova, ed., Akad. Nauk SSSR Dal'nevost. Geol. Vladivostok, U.S.S.R. p. 86–98. (Chem. Abstr., v. 82, 19486c.)
- Borovitskii, V.P., Miller, A.D. and Shemyakin, V.N.
 1966: Determination of minute amounts of gold in natural waters of the Aldan region; Geochem. Int., v. 3, no. 2, p. 371–377.
- Borovitskii, V.P. and Shemyakin, V.N.
 1965: Carbonate survey practise as applied in prospecting for gold deposits in the Aldan mining district; Sov. Geol., no. 10, p. 145–146. Also Int. Geol. Rev., v. 8, no. 9, p. 1037–1038.
- Bostock, H.H.
 1967: Geological notes Itchen Lake map-area, District of Mackenzie; Geol. Surv. Can., Pap. 66–24, 13 p.
 1968: Gold-arsenopyrite-loellingite-pyrrhotite deposits in amphibolite, Itchen Lake–Contwoyto Lake area, District of Mackenzie; in Report of Activities, Pt. B; Geol. Surv. Can., Pap. 68–1, Pt. B, p. 72–76.
- Bostock, H.S.
 1942: Ogilvie, Yukon Territory; Geol. Surv. Can., Map 711A.
- Bothwell, S.A.
 1938: Geology of the Pickle Crow gold mine; Can. Inst. Min. Metall., Trans., v. 41, p. 132–140.
- Botinelly, T., Neuerburg, G.I. and Conklin, N.M.
 1973: Galkhaite, (Hg,Cu,Tl,Zn) (As,Sb) S₂, from the Getchell mine, Humboldt County, Nevada; U.S. Geol. Surv., J. Res., v. 1, no. 5, p. 515–517.
- Bouška, V., Havlena, V. and Šulcek, Z.
 1963: Geochemistry and petrography of the Cenomanian coals from Bohemia and Moravia; Cesk. Akad. Ved, Rozpr. Rada Mat. Přírod. Ved, v. 73, no. 8, p. 3–78 (in Czech).
- Bowen, H.J.M.
 1968: The uptake of gold by marine sponges; J. Mar. Biol. Assoc. U.K., v. 48, p. 275–277.
- Bowen, K.G.
 1972: Arsenic as a guide to gold mineralization at the Wattle Gully and Sambah mines; Min. Geol. J. (Mines Dep. Victoria), v. 7, no. 2, p. 5–15.
- Bowie, A.J.
 1879: Hydraulic mining in California; Am. Inst. Min. Eng., Trans., v. 6, p. 27–100.
- Bowie, S.H.U.
 1964: The mode of origin of banket orebodies, discussion; Int. 1965: Min. Metall., Trans., v. 74, no. 702, p. 492–497.
- Boydell, H.C.
 1924: The role of colloidal solutions in the formation of mineral deposits; Inst. Min. Metall., Trans. (London), v. 34, pt. 1, p. 145–337.
- Boyer, F. and Picot, P.
 1963: Sur la présence de maldonite (Au₂Bi) à Salsigne (Aude); Soc. Fr. Minéral. Cristallogr., Bull. 86, p. 429.
- Boyer, F., Touray, J.C. et Vogler, M.
 1967: Présence d'inclusions à CO₂ liquide dans des quartz du district aurifère de Salsigne; C.R. Acad. Sci. Paris, Ser. D, t. 265, p. 11–13.
- Boyes, W.T. and Harrison, J.M.
 1948: Squall Lake property; in structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 302–304.

Boyle, R.W.

- 1951: An occurrence of native gold in an ice lens, Giant Yellowknife Gold Mines, Yellowknife, Northwest Territories; *Econ. Geol.*, v. 46, p. 223-227.
- 1953: On the colour of black and grey quartz from Yellowknife, Northwest Territories, Canada; *Am. Mineral.*, v. 38, p. 528-535.
- 1954: A decrepitation study of quartz from the Campbell and Negus-Rycon shear zone systems, Yellowknife, Northwest Territories; *Geol. Surv. Can., Bull.* 30, 20 p.
- 1955: The geochemistry and origin of the gold-bearing quartz veins and lenses of the Yellowknife Greenstone Belt; *Econ. Geol.*, v. 50, p. 51-66.
- 1959: The geochemistry, origin, and role of carbon dioxide, water, sulphur and boron in the Yellowknife gold deposits, N.W.T., Canada; *Econ. Geol.*, v. 54, p. 1506-1524.
- 1960: Some geochemical considerations on lead-isotope dating of lead deposits; *Econ. Geol.*, v. 54, p. 130-135 (*Geol. Surv. Can. Reprint* 15).
- 1961a: The geology, geochemistry, and origin of the gold deposits of the Yellowknife district; *Geol. Surv. Can., Mem.* 310, 193 p.
- 1961b: Native zinc at Keno Hill; *Can. Mineral.*, v. 6, pt. 5, p. 692-694.
- 1963: Diffusion in vein genesis; *Symp. Problems of Post-magmatic Ore Deposition*, Prague, Czech., v. 1, p. 377-383.
- 1964: Origin of Yellowknife gold deposits—a reply; *Econ. Geol.*, v. 59, p. 1176-1177.
- 1965a: Geology, geochemistry, and origin of the lead-zinc-silver deposits of the Keno Hill-Galena Hill area, Yukon Territory; *Geol. Surv. Can., Bull.* 111, 302 p.
- 1965b: The geochemistry of cadmium in the lead-zinc-silver deposits of the Keno Hill-Galena Hill area (Yukon, Canada); *Akad. Nauk SSSR, Probl. Geokhim, Izd. "Nauka"*, Moscow, p. 220-231.
- 1966: Origin of gold and silver in the gold deposits of the Meguma Series, Nova Scotia; (abstr.) *Progr. Geol. Assoc. Can. and Mineral Assoc. Can. Annu. Meet.*, Halifax, N.S.
- 1968a: Fahlbands, sulfide schists, and ore deposition; *Econ. Geol.*, v. 63, p. 835-838.
- 1968b: The geochemistry of silver and its deposits; *Geol. Surv. Can., Bull.* 160, 264 p.
- 1968c: Conditions of formation of rhombohedral (3R) molybdenite; *Akad. Nauk SSSR, Dokl.*, v. 183, p. 332-333.
- 1969a: The source of elements in epigenetic mineral deposits—a metallogenic concept for prospecting; *Can. Min. J.*, v. 90, p. 104-107.
- 1969b: Elemental associations in mineral deposits and indicator elements of interest in geochemical prospecting; *Geol. Surv. Can., Pap.* 68-58, 45 p.
- 1969c: Hydrothermal transport and deposition of gold; *Econ. Geol.*, v. 64, p. 112-115.
- 1970: Regularities in wall-rock alteration phenomena associated with epigenetic deposits; in *Problems of hydrothermal ore deposition*, *Int. Union Geol. Sci. A.*, no. 2, Z. Pouba and M. Stempok, eds., Schweizerbart'sche, Stuttgart, 396 p.
- 1971: Boron and boron minerals as indicators of mineral deposits; in *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., *Can. Inst. Min. Metall., Spec. Vol.* 11, p. 112.
- 1972: The geology, geochemistry, and origin of the barite, manganese, and lead-zinc-copper-silver deposits of the Walton-Cheverie area, Nova Scotia; *Geol. Surv. Can., Bull.* 166, 181 p.
- 1974a: Elemental associations in mineral deposits and indicator elements of interest in geochemical prospecting (revised); *Geol. Surv. Can., Pap.* 74-45, 40 p.
- 1974b: The use of major elemental ratios in detailed geochemical prospecting utilizing primary halos; *J. Geochem. Explor.*, v. 3, p. 345-369.
- 1976a: Mineralization processes in Archean greenstone and sedimentary belts; *Geol. Surv. Can., Pap.* 75-15, 45 p.
- 1976b: Native lead at Keno Hill, Yukon; *Can. Mineral.*, v. 14, p. 577.
- 1977: Cupriferous bogs in the Sackville area, New Brunswick, Canada; *J. Geochem. Explor.*, v. 8, p. 495-527.
- Boyle, R.W., Alexander, W.M. and Aslin, G.E.M.
1975: Some observations on the solubility of gold; *Geol. Surv. Can., Pap.* 75-24, 6 p.
- Boyle, R.W., Chamberlain, J.A., Holman, R.H.C. and Smith, A.Y.
1963a: Eight papers on regional geochemistry in Canada; *Geol. Surv. Can., Pap.* 63-23, 46 p.
- Boyle, R.W. and Dass, A.S.
1971a: The geochemistry of the supergene processes in the native silver veins of the Cobalt-South Lorrain area, Ontario; *Can. Mineral.*, v. 11, pt. 1, p. 358-390.
1971b: The origin of the native silver veins at Cobalt, Ontario; *Can. Mineral.*, v. 11, pt. 1, p. 414-417.
- Boyle, R.W., Dass, A.S., Church, D., Mihailov, G., Durham, C., Lynch, J. and Dyck, W.
1969: Research in geochemical prospecting methods for native silver deposits, Cobalt area, Ontario, 1966; *Geol. Surv. Can., Pap.* 67-35, 91 p.
- Boyle, R.W. and Davies, J.L.
1964: Geology of the Austin Brook and Brunswick No. 6 sulphide deposits, Gloucester County, New Brunswick; *Geol. Surv. Can., Pap.* 63-24, 23 p.
- Boyle, R.W. and Gleeson, C.F.
1972: Gold in the heavy mineral concentrates of stream sediments, Keno Hill area, Yukon Territory; *Geol. Surv. Can., Pap.* 71-51, 8 p.
- Boyle, R.W., Hornbrook, E.H.W., Allan, R.J., Dyck, W. and Smith, A.Y.
1971: Hydrogeochemical methods—application in the Canadian Shield; *Can. Inst. Min. Metall., Bull.*, v. 64, no. 715, p. 60-71.
- Boyle, R.W. and Jambor, J.L.
1963: The geochemistry and geothermometry of sphalerite in the lead-zinc-silver lodes of the Keno Hill-Galena Hill area, Yukon Territory; *Can. Mineral.*, v. 7, pt. 3, p. 479-496.
- Boyle, R.W. and Jonasson, I.R.
1973: The geochemistry of arsenic and its use as an indicator element in geochemical prospecting; *J. Geochem. Explor.*, v. 2, p. 251-296.
- Boyle, R.W. and Steacy, H.R.
1973: An auriferous radioactive hydrocarbon from the Richardson mine, Eldorado, Ontario; in *Report of Activities, April to October, 1972*, *Geol. Surv. Can., Pap.* 73-1, Pt. A, p. 282-285.
- Boyle, R.W., Wanless, R.K. and Lowdon, J.A.
1963b: The origin of the gold-quartz deposits, Yellowknife, N.W.T.—Discussion; *Econ. Geol.*, v. 58, p. 804-807.
- Boyle, R.W., Wanless, R.K. and Stevens, R.D.
1970: Sulfur isotope investigation of the lead-zinc-silver-cadmium deposits of the Keno Hill-Galena Hill area, Yukon, Canada; *Econ. Geol.*, v. 65, p. 1-10.
- Bradshaw, P.M.D., ed.
1975: Conceptual models in exploration geochemistry; *The Canadian Cordillera and Canadian Shield*; *J. Geochem. Explor.*, v. 4, no. 1 (Spec. Iss.), 213 p.
- Bragg, J.G.
1943: Rock alteration at the San Antonio Mine; *Can. Min. J.*, v. 64, p. 553-556.
- Brammhall, A.
1926: Gold and silver in the Dartmoor granite; *Mineral. Mag.*, v. 21, no. 112, p. 14-20.
- Brammhall, A. and Dowie, D.L.
1936: The distribution of gold and silver in the crystalline rocks of the Malvern Hills; *Mineral. Mag.*, v. 24, no. 152, p. 260-264.

- Brammall, A. and Harwood, H.F.
1924: The occurrence of gold-bearing pegmatite on Dartmoor; *Mineral Mag.*, v. 20, no. 105, p. 201-211.
- Brannock, W.W., Fix, P.F., Gianella, V.P. and White, D.E.
1948: Preliminary geochemical results at Steamboat Springs, Nevada; *Am. Geophys. Union, Trans.*, v. 29, no. 2, p. 211-226.
- Bray, A.
1928: Notes on the banket reefs of the Gold Coast Colony; *Inst. Min. Metall., Trans. (London)*, v. 38, p. 21-69.
- Bridgman, P.W.
1931: The physics of high pressure; G. Bell and Sons, Ltd., London, 398 p.
- Brinck, J.W.
1956: Gold deposits in Surinam; *Leidsche Geol. Meded.*, v. 21, p. 1-246.
- Bristow, Q. and Jonasson, I.R.
1972: Vapour sensing for mineral exploration; *Can. Min. J.*, v. 93, n. 15, p. 39-47, 85.
- Brock, B.B. and Pretorius, D.A.
1964a: Rand Basin sedimentation and tectonics; in *The Geology of some ore deposits in southern Africa*, S.H. Haughton, ed., *Geol. Soc. S. Afr.*, v. 1, p. 549-599.
1964b: An introduction to the stratigraphy and structure of the Rand goldfield, in *The Geology of some ore deposits in southern Africa*, S.H. Haughton, ed., *Geol. Soc. S. Afr.*, v. 1, p. 25-61.
- Brock, J.S.
1972: The use of dogs as an aid to exploration for sulphides; *Western Miner*, v. 45, no. 12, p. 28-32.
- Brock, R.W.
1904: Original native gold in igneous rocks; *Eng. Min. J.*, v. 77, p. 511.
- Broderick, T.M.
1945: Geology of the Ropes gold mine, Marquette County, Michigan; *Econ. Geol.*, v. 40, p. 115-128.
- Brokaw, A.D.
1910: The solution of gold in the surface alterations of ore bodies; *J. Geol.*, v. 18, p. 321-326.
1913: The secondary precipitation of gold in ore bodies; *J. Geol.*, v. 21, p. 251-267.
- Brooks, H.C. and Ramp, L.
1968: Gold and silver in Oregon; *Oreg., Dep. Geol. Miner. Ind., Bull.* 61, 337 p.
- Brooks, R.R.
1960: The use of ion-exchange enrichment in the determination of trace elements in sea-water; *Analyst*, v. 85, p. 745-748.
1961: Apparent geochemical association of bismuth and thallium; *Nature*, v. 189, no. 4768, p. 910-911.
1972: *Geobotany and biogeochemistry in mineral exploration*; Harper & Row, Publishers, New York, 290 p.
- Brosge, W.P. and Reiser, H.N.
1972: Geochemical reconnaissance in the Wiseman and Chandalar districts and adjacent region, Southern Brooks Range, Alaska; *U.S. Geol. Surv., Prof. Pap.* 709, 21 p.
- Brotzen, O. and Obial, R.
1963: Geochemical prospecting applied in the Philippines; *Philipp. Geol.*, v. 17, no. 1, p. 26-40.
- Broughton, P.L.
1973: Economic geology of gold-silver distribution in the Snare Group sediments (Proterozoic) at Norris Lake, Northwest Territories; *Mountain Geol.*, v. 10, no. 2, p. 45-51.
- Brown, B.W. and Hilchey, G.R.
1974: Sampling and analysis of geochemical materials for gold; *Geochemical exploration 1974*, I.L. Elliott and W.K. Fletcher, eds.; *Assoc. Explor. Geochem., Spec. Publ.* no. 2, Elsevier Sci. Publ. Co., Amsterdam, p. 683-690.
- Brown, C.E.G. and Dadson, A.S.
1953: Geology of the Giant Yellowknife Mine; *Can. Inst. Min. Metall., Trans.*, v. 56, p. 69-86.
- Brown, C.E.G., Dadson, A.S. and Wigglesworth, L.A.
1959: On the ore-bearing structures of the Giant Yellowknife Gold Mine; *Can. Inst. Min. Metall., Trans.*, v. 62, p. 107-116.
- Brown, G.F. *et al.*
1951: Geologic reconnaissance of the mineral deposits of Thailand; *U.S. Geol. Surv., Bull.* 984, 183 p.
- Brown, J.B.
1960: Solubility of gold in mercury; *J. Chem. Educ.*, v. 37, no. 8, p. 415-416.
- Brown, J.C.
1935: Gold in Burma and the Shan States; *Min. Mag.*, v. 52, p. 9-20, 82-92.
- Brown, J.C. and Dey, A.K.
1955: *India's mineral wealth*; Oxford Univ. Press, Inc., New York, 761 p.
- Brown, J.S.
1948: *Ore genesis*; Hopewell Press, Hopewell, N.J., 204 p.
- Brown, R.A.
1948: O'Brien mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall., Montreal*, p. 809-816.
- Brown, R. and Wolstenholme, W.A.
1964: Analyses of geological samples by spark source mass spectrometry; *Nature*, v. 201, no. 4919, p. 598.
- Brown, W.L.
1948: Jerome mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall., Montreal*, p. 438-441.
- Browne, P.R.L.
1969: Sulfide mineralization in a Broadlands geothermal drill hole, Taupo volcanic zone, New Zealand; *Econ. Geol.*, v. 64, p. 156-159.
- Brownell, G.M.
1941: Geology of the Falcon Lake stock, southeastern Manitoba; *Can. Inst. Min. Metall., Trans.*, v. 44, p. 230-250.
- Bruce, E.L.
1933: *Mineral deposits of the Canadian Shield*; Macmillan, Toronto, 428 p.
1937a: Geological relations of some major gold deposits of the Canadian Shield; *Am. Inst. Min. Metall. Eng., Tech. Publ.* no. 807, 13 p.
1937b: Geological relations of the major gold deposits of the Canadian Shield; *Finl., Comm. Geol., Bull.*, v. 19, no. 115, p. 165-177.
1939: Structural relations of some gold deposits between Lake Nipigon and Long Lake, Ontario; *Econ. Geol.*, v. 34, p. 357-368.
1941a: Albite and gold; *Econ. Geol.*, v. 36, p. 455-458.
1941b: Concentrated saline water from the Sturgeon River gold mines; *R. Soc. Can., Proc. Trans.*, ser. 3, v. 35, sec. 4, p. 25-59.
1942: Geology of the Goudreau-Lochalsh area; *Ont. Dep. Mines, Annu. Rep.*, 1940, vol. 49, pt. 3, 50 p.
1943: Gold-silver ratios in certain Ontario gold mines; *R. Soc. Can., Trans.*, v. 37, sec. 4, p. 23-31.
1944: Geology of the Rennie-Leeson area; *Ont. Dep. Mines, Annu. Rep.*, 1942, v. 51, pt. 8, p. 1-26.
1948: Renabie mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall., Montreal*, p. 436-438.
- Bruemmer, F.
1966: Kodlunarn Island's gold rush; *Can. Geogr. J.*, v. 72, no. 2, p. 48-51.
- Brundin, N.
1939: Method of locating metals and minerals in the ground; *U.S. Pat. Off.*, 2,158,980, 3 p.
- Brunfelt, A.O., Heier, K.S. and Steinnes, E.
1971: Determination of 40 elements in Apollo 12 materials by neutron activation analysis; *Proc. 2nd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Supp.* 2, v. 2, p. 1281-1290.

- Brunton, S.
1926a: The gold deposits of Nova Scotia: an analysis of the history and present status and a hypothesis concerning the structural features of the province in relation to the deposition of gold; *Can. Inst. Min. Metall., Bull.*, v. 29, p. 424-497.
1926b: The gold deposits of Nova Scotia; a new hypothesis concerning the structural features of the province; *Inst. Min. Metall., Trans.*, v. 35, p. 356-389.
- Brückner, W.
1955: The mantle rock ("laterite") of the Gold Coast and its origin; *Geol. Rundsch.*, v. 43, p. 307-327.
- Bryner, L.
1969: Ore deposits of the Philippines—an introduction to their geology; *Econ. Geol.*, v. 64, p. 644-666.
- Bueno, J.A.
1955: Deposits of uranium and other metals in the La Baja region, Municipio Calif., Dep. Santander (Columbia); *Ministerio Mines Petrol., Inst. Geol. Nacl., Bol. Geol.*, no. 3, p. 1-83, anexo p. 1-21. (*Chem. Abstr.*, v. 51, 152f.)
- Buffam, B.S.W.
1948a: Moneta Porcupine mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall., Montreal*, p. 457-464.
1948b: Aunor mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall., Montreal*, p. 507-515.
- Buffam, B.S.W. and Allen, R.B.
1948: Chesterville mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall., Montreal*, p. 662-671.
- Bugge, J.A.W.
1945: The geological importance of diffusion in the solid state; *Av. Nor. Vidensk. Akad. Oslo I. Mat. Naturvidensk. Kl.*, no. 13, 59 p.
- Bugrov, V.
1974: Geochemical sampling techniques in the eastern desert of Egypt; *J. Geochem. Expl.* v. 3, p. 67-75.
- Bugrov, V.A. and Shalaby, I.M.
1975: Geochemical prospecting in the eastern desert of Egypt; in *Geochemical exploration 1974*, I.L. Elliot and W.K. Fletcher, eds.; Elsevier Sci. Publ. Co., Amsterdam, p. 523-530.
- Bujor, D.I.
1948: Synthetische Versuche über die Bildung der Golderz-lagerstätten zu Brad in Rumanien; *Ark. Kemi, Mineral. Geol.*, v. 26A, no. 3, p. 1-7. (*Chem. Abstr.*, v. 44, 7196d.)
- Bulatova, L.Sh.
1972a: Characteristics of gold ore mineralizations in the Kassan region (southern Kirgizia); *Geol. Rus. Raionov Mestorozhd. Srednei Azii. Metody Ikh*, p. 82-89. (*Chem. Abstr.*, v. 80, 98353s.)
1972b: Mineralogical-geochemical characteristics of gold ore mineralization in the Kassan region; *Geol. Petrologiya, Mineral, Endogennykh Mestorozhd. Srednei Azii*, L.A. Bykov, ed., "Nedra" Moscow, USSR, p. 32-41. (*Chem. Abstr.*, v. 80, 29204g.)
- Bulgatov, A.N.
1973: Tectonic structures and distribution regularities of gold in the Barguzinsk taiga; *Geol. Geofiz.*, no. 12, p. 29-37. (*Chem. Abstr.*, v. 80, 98381z.)
- Bulynnikov, A.Ya.
1963: Genetic types of gold mineralization in the Kuznetsk Ala-Au and Salair; *Tr. Tomsk. Gos. Univ., Ser. Geol.* v. 164, p. 75-85. (*Chem. Abstr.*, v. 60, 15608e.)
- Burbank, W.S.
1930: Revision of geologic structure and stratigraphy in the Ouray district of Colorado, and its bearing on ore deposition; *Colo. Sci. Soc., Proc.*, v. 12, no. 6, p. 151-232.
- Burbank, W.S. and Luedke, R.G.
1968: Geology and ore deposits of the western San Juan Mountains, Colorado; in *Ore deposits of the United States*, Graton-Sales Vol., J.D. Ridge, ed., v. 1, *Am. Inst. Min. Metall., Pet. Eng. Inc., New York*, p. 714-733.
- Bürg, G.H.
1930: Die Sichtbarmachung des feinverteilten Goldes in goldhoffenden Erzen und ihre wirtschaftliche Bedeutung; *Metall. Erz.*, v. 27, p. 333.
1935: Natur des in den Pyriten nicht sichtbar enthaltenen Goldes; *Z. Prakt. Geol.*, v. 43, pt. 2, p. 17-26.
- Burgess, J.A.
1911: The halogen salts of silver and associated minerals at Tonopah, Nevada; *Econ. Geol.*, v. 6, p. 13-21.
- Burn, R.G.
1973: Geochemical exploration in northeastern Nicaragua; *Inst. Controam. Invest. Tecnol. Ind. Publ. Geol.*, v. 4, p. 17-29. (*Chem. Abstr.*, v. 82, 75648u.)
- Burnham, C.W.
1959: Metallogenic provinces of the southwestern United States and northern Mexico; *N.M., Bur. Mines Miner. Resour., Bull.* 65, 76 p.
1962: Facies and types of hydrothermal alteration; *Econ. Geol.*, v. 57, p. 768-784.
- Burnol, L., Autrau, A., Bonnici, J.-P. and Geoffroy, J.
1974: Acid granites and associated mineralization in the north-western part of the French central masse; *Int. Geol. Correlation Prog. Metallization Associated With Acid Magmatism, Excursion C Guidebook*, *Bur. Rech. Geol. Minières (Fr.)*, Paris, 206 p.
- Burrows, A.G.
1925: The Porcupine gold area; *Ont. Dep. Mines, Annu. Rep.*, 1924, v. 33, pt. 2, 112 p.
1929: The wire gold discovery south of the Porcupine District, Ontario; *Eng. Min. J.*, v. 127, p. 241.
- Burrows, A.G. and Hopkins, P.E.
1925: Kirkland Lake gold area; Lebel and Gauthier townships; *Ont. Dep. Mines, Annu. Rep.*, 1923, v. 32, pt. 4, 96 p.
- Buryak, V.A.
1964: Effect of regional metamorphism on the development of the gold-sulphide mineralization of the central part of the Lena gold fields; *Fiz. Khim. Usloviya Magmat. Metasomatoza*, *Inst. Geol. Geofiz. Sibirsk. Otd. Akad. Nauk SSSR*, p. 184-189. (*Chem. Abstr.*, v. 63, 6726c.)
1967a: Gold ore formations of the Lena gold-bearing region; *Int. Geol. Rev.*, v. 9, no. 12, p. 1553-1559.
1967b: A new type of gold mineralization in the Lena gold province; *Akad. Nauk SSSR, Dokl.*, v. 169, no. 1, p. 163-166, 1966 (*Akad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 169, nos. 1-6, p. 14-16).
1967c: Hypogene zoning of mineralization in the old gold provinces of Siberia; *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 173, p. 212-214 (*Am. Geol. Inst. transl.*).
1975a: Metamorphogenic-hydrothermal type of gold mineralization; *Geol. Rud. Mestorozhd.*, v. 17, no. 2, p. 37-46.
1975b: Criteria for prospecting for gold mineralization of metamorphogenic-hydrothermal type; *Sov. Geol.*, no. 10, p. 35-48. (*Chem. Abstr.*, v. 84, 76947u.)
1976: Volcanic-sedimentary and hydrothermal-sedimentary minerogenesis and the role it plays in the formation of gold deposits in black (carbonaceous) shales; *Acad. Sci. USSR, Dokl.*, v. 226, p. 907-910.
- Buryak, V.A., Kashcheyeva, T.V. and Khemelevskaya, N.M.
1966: Influence of host rock and composition on the development of Precambrian gold mineralization (Patom Highlands); *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 169, nos. 1-6, p. 44-47.
- Buryak, V.A., Lisii, V.A., Popov, N.P. and Khrenov, P.M.
1974: Gold mineralization in ancient strata of the Sayan-Baikal folded region; *Razved. Okhr. Nedr.*, no. 2, p. 6-11. (*Chem. Abstr.*, v. 81, 66383f.)

- Buryak, V.A., Sizykh, Yu. I., Chernenko, A.I., Rusina, L.D., Klyachina, R.M., Volynets, T.P. and Yelizar'yeva, T.I.
1972: Behaviour of gold during granitization and pegmatitization in the Vitim-Patom highlands; Acad. Sci. USSR, Dokl., Earth Sci. Sec., v. 207, p. 230-233 (Am. Geol. Inst. transl.).
- Buschendorf, F.
1926: Betrachtungen über die Gangkomponenten, sowie über das Vorkommen und die Verteilung des Goldes in der Primärzone alter Goldquarzgänge; Z. Prakt. Geol. Jahrg. 34, p. 1-11.
1931: Die primären Golderze des Hauptganges bei Brandholz im Fichtelgebirge unter besonderer Berücksichtigung ihrer Paragenesis und Genesis; Neues Jahrb. Miner., Geol. Palaeontol., Beil. Bd. 62, Abt. A, p. 1-50.
- Buschendorf, F. and Hüttenhain, H.
1931: Über das Vorkommen von Gold und Wismuterzen in den Siegerländer Spateisensteingängen; Neues Jahrb. Miner., Geol. Palaeontol., Beil. Bd. 62, Abt. A, p. 51-56.
- Busev, A.I. and Ivanov, V.M.
1973: Analytical chemistry of the elements: analytical chemistry of gold; Nauka, Moscow, U.S.S.R., 263 p. (Chem. Abstr., v. 80, 33598f.)
- Bushliakov, I.N.
1971: The distribution of gold in the granitoids of the Verkh-Isetsk Massif of the Urals; Geokhim., no. 12, p. 1442-1448.
- Busschau, W.J.
1949: The glamour of gold, its attraction through the ages, pt. 2; S. Afr. Min. Eng. J., v. 60, pt. 1, no. 2941, p. 545-547.
- Butler, B.S., Loughlin, G.F., Heikes, V.C., et al.
1920: The ore deposits of Utah; U.S. Geol. Surv., Prof. Pap. 111, 672 p.
- Buturlinov, N.V. and Latysh, I.K.
1970: Gold and silver in magmatic rocks of the Donets Basin; Geol. Zh. (Kiev), v. 30, no. 5, p. 69-75.
- Byers, A.R.
1940: Geology of the Nighthawk Peninsular gold mine; Econ. Geol., v. 35, p. 996-1011.
1948: Porcupine Peninsular mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 565-569.
- Byers, A.R. and Gill, J.E.
1948: Sladen Malartic mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 858-864.
- Cabri, L.J.
1965a: Phase relations in the Au-Ag-Te system and their mineralogical significance; Econ. Geol., v. 60, p. 1569-1606.
1965b: The occurrence of telluride minerals at the Acupan gold mine, Mountain Province, Philippines; Econ. Geol., v. 60, p. 1080-1082.
1972: The mineralogy of the platinum-group elements; Miner. Sci. Eng., v. 4, no. 3, p. 3-29.
- Cabri, L.J., Harris, D.C. and Stewart, J.M.
1970: Paracostibite (CoSbS) and nisbite (NiSb₂), new minerals from the Red Lake area, Ontario, Canada; Can. Mineral., v. 10, pt. 2, p. 232-246.
- Cabri, L.J. and Laflamme, J.H.G.
1974: Rhodium, platinum, and gold alloys from the Stillwater complex; Can. Mineral., v. 12, p. 399-403.
- Cabri, L.J. and Rucklidge, J.C.
1968: Gold-silver tellurides: relation between composition and X-ray diffraction data; Can. Mineral., v. 9, pt. 4, p. 547-551.
- Cachau-Herrellat, F. and La Salle, P.
1971: The utilization of eskers as ancient hydrographic networks for geochemical prospecting in glaciated areas; in Geochemical exploration, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 121.
- Cadigan, R.A.
1972: Geochemical anomalies and alteration in the Moenkopi Formation, Skull Creek, Moffat County, Colorado; U.S. Geol. Surv., Prof. Pap. 761, 21 p.
- Caillere, S. and Dietrich, J.E.
1966: Maucherite, gold, and niccolite in the Aghbar mine, Bou-Azzer region, (Anti-Atlas, Morocco); Morocco, Serv. Geol., Notes Mem., no. 188, p. 139-141. (Chem. Abstr., v. 71, 62905y.)
- Caley, E.R.
1964: Analysis of ancient metals; Macmillan and Co., Ltd., New York, 176 p.
- Callahan, W.H.
1974: Occurrence of lorandite, thallium arsenide sulfide, TlAsS₂, at the Carlin gold deposit, Nevada; Econ. Geol., v. 69, p. 121-124.
- Callow, K.J.
1967: The geology of the Thanksgiving mine, Baguio district, Mountain Province, Philippines; Econ. Geol., v. 62, p. 472-481.
- Callow, K.J. and Worley, B.W.
1965: The occurrence of telluride minerals at the Acupan gold mine, Mountain Province, Philippines; Econ. Geol., v. 60, p. 251-268. Also Cabri, L.J., Econ. Geol., v. 60, p. 1080-1082.
- Calvert, J.
1853: The gold rocks of Great Britain and Ireland and a general outline of the gold regions of the world with a treatise on the geology of gold; Chapman & Hall, Ltd., London, 324 p. and appendix and index.
- Cameron, A.G.W.
1959: A revised table of abundance of the elements; Astrophys. J., v. 129, p. 676-699.
1968: A new table of abundance of the elements in the solar system; in Origin and distribution of the elements, L.H. Ahrens, ed., Pergamon Press, Oxford, p. 125-143.
- Cameron, E.N., Jahns, R.H., McNair, A.H. and Page, L.R.
1949: Internal structure of granitic pegmatites; Econ. Geol., Monogr. 2, 115 p.
- Cameron, G.W. and Hood, P.J.
1975: Residual aeromagnetic anomalies associated with the Meguma Group of Nova Scotia and their relation to gold mineralization; Geol. Surv. Can., Pap. 75-1, Pt. C, p. 197-211.
- Campbell, J.D.
1953: The structure of the Kalgoorlie goldfield; in Geology of Australian ore deposits, v. 1, A.B. Edwards, ed., 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 79-93.
1965: Gold ore deposits of Australia; in 8th Commonw. Min. Metall. Congr., Australia and New Zealand, v. 1, Geology of Australian ore deposits, 2nd ed., J. McAndrew, ed., p. 31-38.
- Campbell, W.L., Mosier, E.L. and Antweiler, J.C.
1973: Effects of laboratory treatments on silver and other elements in native gold; J. Res., U.S. Geol. Surv., v. 1, no. 2, p. 211-220.
- Camsell, C.
1910: The geology and ore deposits of Hedley mining district, British Columbia; Geol. Surv. Can., Mem. 2, 218 p.
1913: Geology and mineral deposits of the Tulameen district, B.C.; Geol. Surv. Can., Mem. 26, 188 p.
- Cannon, H.L.
1960: Botanical prospecting for ore deposits; Science, v. 132, no. 3427, p. 591-598.
- Cannon, H.L., Shacklette, H.T. and Bastron, H.
1968: Metal absorption by *Equisetum* (horsetail); U.S. Geol. Surv., Bull. 1278-A, 21 p.
- Cannon, R.S., Pierce, A.P. and Antweiler, J.C.
1971: Suggested uses of lead isotopes in exploration; in Geochemical exploration, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 457-463.

- Carlisle, D. and Cleveland, G.B.
1958: Plants as a guide to mineralization; Calif. Dep. Nat. Resour. Div. Mines, Spec. Rep. 50, 31 p.
- Carnegie, D.W.
1898: Spinifex and sand: a narrative of five years pioneering and exploration in western Australia; C. Arthur Pearson Ltd., London (Penguin Colonial facsimiles, Penguin Books Australia, Ltd., Ringwood, Victoria, Australia, 1973, 454 p.)
- Carpenter, J.A.
1941: An investigation as to the presence of commercial quantities of mercury and gold in the dry lakes of Nevada; Univ. Nevada, Bull., v. 35, no. 4, Geol. Min. Ser. no. 35, 20 p.
- Carter, J.W.
1968: Gold mineralization in central Guyana; Trans. 4th, Caribbean Geol. Conf., Trinidad, v. 1965, p. 407-414.
- Carter, O.F.
1948: Coniaurum mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 497-503.
- Cartwright, A.P.
1962: The gold miners; Purnell & Sons (SA) Pty Ltd., Johannesburg, 340 p.
- Casadevall, T.
1976: Sunnyside mine, Eureka mining district, San Juan County, Colorado: geochemistry of gold and base metal ore formation in the volcanic environment; 25th Int. Geol. Congr., Sydney, Australia, Abstr., v. 3, p. 805.
- Casadevall, T. and Ohmoto, H.
1977: Sunnyside mine, Eureka mining district, San Juan County, Colorado: geochemistry of gold and base metal ore deposition in a volcanic environment; Econ. Geol., v. 72, p. 1285-1320.
- Cathcart, S.H.
1922: Metalliferous lodes in southern Seward Peninsula; U.S. Geol. Surv., Bull. 722, p. 163-261.
- Cavender, W.S.
1963: Arsenic in geochemical gold exploration; Min. Eng., v. 15, no. 11, p. 60 (abstr.).
- Cerveira, A.
1952: Relationship between hypogene deposits of gold and tungsten in Portugal; Port., Soc. Geol., Bol., v. 10, p. 133-144 (in Portuguese).
- Cevalas, G.
1961: Ore deposits of the Gran Paradiso (Graian Alps); Rend. Soc. Mineral. Ital., v. 17, p. 193-217. (Chem. Abstr., v. 56, 2179i.)
- Chace, F.M.
1949: Origin of the Bendigo saddle reefs with comments on the formation of ribbon quartz; Econ. Geol., v. 44, p. 561-597.
- Chae, S.H. and Kim, R.C.
1972: Distribution of gold deposits in the northwestern region of Korea; Chijil Kwa Chiri, v. 12, no. 4, p. 30-34. (Chem. Abstr., v. 79, 148095m.)
- Chaffee, M.A.
1972: Distribution and abundance of gold and other selected elements in altered bedrock, Empire mining district, Clear Creek County, Colorado; U.S. Geol. Surv., Bull. 1278-C, 23 p.
1976: The zonal distribution of selected elements above the Kalamazoo porphyry copper deposit, San Manuel district, Pinal county, Arizona; J. Geochem. Explor., v. 5, p. 145-165.
- Chaika, V.M.
1969: Precambrian metal-bearing conglomerates and fundamentals for evaluation of Precambrian placer deposits; Probl. Metallonosnosti Drevnikh Konglomeratov Territ. SSSR Mater. Soveshch., 1966, V.I. Smirnov, ed., Izd. "Nauka", Moscow, U.S.S.R., p. 29-52. (Chem. Abstr., v. 72, 34222a.)
1970: Problems of placer deposit evolution; Sostoyanie Zadachi Sov. Litol., Dokl. Zased. Vses. Litol. Soveshch., 8th, 1968, no. 2, p. 149-158. (Chem. Abstr., v. 74, 101646y.)
- Chaika, V.M. and Nezhdanova, G.E.
1969: The migration of gold during the metamorphism of the sulphide-bearing graphitoid-kyanite shales of the Keyv Series of the Kola Peninsula; Akad. Nauk SSSR, Dokl., v. 188, no. 2, p. 438-441.
- Chaikovskii, V.K.
1963: Gold in the sedimentary-metamorphic rocks and its study; Geokhim. Petrogr. Mineral. Osad. Obrazov., Akad. Nauk SSSR Gos. Kom. SSSR, p. 381-394. (Chem. Abstr., v. 61, no. 2, 1620f.)
- Chakraborty, A.R.
1971: Bibliography of gold in India; Indian Miner., v. 25, no. 1, p. 82-92.
- Chakraborty, A.K., Stevens, C.M., Rushing, H.C. and Anders, E.
1964: Isotopic composition of silver in iron meteorites; J. Geophys. Res., v. 69, no. 3, p. 505-520.
- Chakravorty, P.S.
1971: Mineragraphic studies of the gold-bearing quartz veins around Kundrakocha, Singhbhum district, Bihar; Inst. Miner. Assoc., Pap. Proc. 7th Gen. Meet., 1970, no. 3, p. 418-424.
- Chamber of Mines, Rhodesia
1968: Anthraps—a guide to mineral deposits? Chamber Mines J., v. 10, no. 12, p. 29.
1969a: Anthill theory winning many adherents in Rhodesia; Chamber Mines J., v. 11, no. 3, p. 16.
1969b: "Termite prospecting" going well; Chamber Mines J., v. 11, no. 9, p. 19.
- Chamber of Mines, South Africa
1968: Gold bulletin, a quarterly review of research on gold and its applications in industry; Chamber Mines S. Afr., 5 Holland Street, Johannesburg.
- Chance, H.M.
1900: The discovery of new gold districts; Am. Inst. Min. Eng., Trans., v. 29, p. 224-230.
- Ch'ang ta
1963: The geology of China; U.S. Dep. Commer. OTS: 63-21820 (transl.).
- Chapman, R.M.
1959: Geochemical exploration in the Kantishna area, Alaska; Geol. Soc. Am., Bull. v. 69, no. 12, pt. 2, p. 1751 (abstr.).
- Charlewood, G.H.
1964: Geology of deep developments on the Main Ore Zone at Kirkland Lake; Ont. Dep. Mines, Geol. Circ. no. 11, 49 p.
- Chary, K.N.
1971: An isotopic and geochemical study of gold-quartz veins in the Con-Rycon mine, Yellowknife, N.W.T.; Unpubl. M.Sc. thesis, Univ. Alberta, Edmonton, 90 p.
- Chasovitin, M.D. and Filimanov, M.V.
1973: On the geochemistry of gold in early Cretaceous intrusive rocks of Chukotka; Geol. Geofiz., no. 7, p. 110-113.
- Cheglakov, S.V.
1972: Spatial distribution characteristics of gold in the Balei ore field; Probl. Obrazov. Rud. Stolbov, Mater. Simp., 1969, F.N. Shakhov, ed., "Nauka" Sib. Otd., Novosibirsk, U.S.S.R., p. 89-92. (Chem. Abstr., v. 79, 55827m.)
- Chekalova, K.A.
1968: Gold in ores of the Sokol'noe deposit; Geol., Geokhim. Mineral. Zolotorud. Raionov Mestorozhd. Kaz., no. 1, p. 119-121. (Chem. Abstr., v. 73, 5926y.)
- Chemodanov, N.I.
1958: Morphological and chemical characteristics of placer gold in the Chaun-Uchkotsk region; Vses. Nauch. Issled. Inst. Zolota Redkikh Metal., Geol. no. 34, p. 27-36. (Chem. Abstr., v. 54, 19327c.)
- Chen, P.-Y. and Lee, C.W.
1974: Fuchsite in gold-bearing rock from Laochi, Hualien; Acta Geol. Taiwan., no. 17, p. 7-11. (Chem. Abstr., v. 82, 19354h.)

- Cheney, E.S. and Patton, T.C.
1967: Origin of the bedrock values of placer deposits; *Econ. Geol.*, v. 62, p. 852-853.
- Cherepnin, V.K., Mikov, A.D. and Gribanov, A.P.
1973: Secondary zoning in the gold ore deposits of Kuznetsk Alatau; *Geol. Geofiz.*, no. 11, p. 43-47. (*Chem. Abstr.*, v. 81, 15480c.)
- Cherkasov, R.F.
1973: Archean strata of Aldan as a possible source of ore material in Mesozoic activation deposits; *Metallog. Obl. Tektono-Magmat. Akt., Tezisy Dokl. Vses.*, M.M. Odintsov, ed., Akad. Nauk. SSSR, Sib. Otd., Inst. Zemnoi Kory, Irkutsk, U.S.S.R., p. 135-136. (*Chem. Abstr.*, v. 82, 12656m.)
- Chernyayev, A.M., Chernayeva, L.E., Yeremeyeva, M.N. and Andreyev, M.I.
1969: Hydrogeochemistry of gold; *Geochem. Int.*, v. 6, no. 2, p. 348-358.
- Chesnokov, B.V.
1972: Causes of the size fluctuations of the unit cell of pyrite from the Berezov gold ore deposit in the Urals; *Zap. Vses. Mineral. Obshchest.*, v. 101, no. 4, p. 492-495.
- Chesnokov, B.V. and Popova, V.I.
1971: Crystallomorphology of pyrite from the Berezovo gold ore deposit in the Urals; *Mineral. Kristallogr.*, Tr. Soveshch. 1969, G.N. Vertushkov, ed., p. 43-47. (*Chem. Abstr.*, v. 79, 128015g.)
- Chetvertkov, S.S.
1972: Origin of gold-bearing placers; *Probl. Izuch. Chetvertich. Perioda, Mater. Vses. Soveshch.*, 3rd 1968, S.M. Tseitlin, ed., "Nauka": Moscow, U.S.S.R., p. 357-362. (*Chem. Abstr.*, v. 79, 81613h.)
- Chibber, H.L.
1934: The mineral resources of Burma; The Macmillan Company, London, 320 p.
- Chibisov, N.P., Kozlov, G.G. and Koksharskii, M.G.
1973: The correlation of primary and secondary geochemical halos of a gold-antimony deposit (northeast Yakutsk); *Geol. Rud. Mestorozhd.*, v. 15, no. 4, p. 80-83. (*Chem. Abstr.*, v. 80, 85685b.)
- Chikishev, A.G.
1965: Plant indicators of soils, rocks, and subsurface waters; Consultants Bureau, New York, 210 p.
- Chisholm, E.O.
1950: A simple chemical method of tracing mineralization through light non-residual overburden; *Can. Inst. Min. Metall., Bull.*, v. 43, p. 64-68.
- Chou, C.-L., Baedeker, P.A., Bild, R.W. and Wasson, J.T.
1974: Volatile-element systematics and green glass in Apollo 15 lunar soils; *in Proc. 5th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 5, v. 2, p. 1645-1657.
- Choubert, B.
1974: Le Précambrien des Guyanes; *Mem. Bur. Rech. Geol. Minières (Fr.)*, no. 81, 213 p.
- Chow, A.
1966: The determination of gold in ores; Unpubl. Ph.D. thesis, Univ. Toronto, Toronto, 130 p.
- Chow, A. and Beamish, F.E.
1967: A comparison of methods for determining gold in ores; *Can. Min. J.*, v. 88, p. 66-69.
- Christie, A.M.
1953: Goldfields—Martin Lake map-area, Saskatchewan; *Geol. Surv. Can., Mem.* 269, 126 p.
- Chukarov, E.V., Finkel'shtein, Yu. V. and Tabachkov, V.A.
1974: Geological-mineralogical characteristics of gold occurrence in the Kattaicha River basin (western Uzbekistan); *Zap. Uzb. Otd. Vses. Mineral. O-va*, v. 27, p. 53-56. (*Chem. Abstr.*, v. 83, 118738p.)
- Chukhrov, F.V.
1947: The migration of gold in the zone of oxidation; *Akad. Nauk. USSR, Izv., Ser. Geol.*, no. 4, p. 117-125.
- Chukhrov, F.V., ed.
1960: Mineral reference book, 2 vols; Izdatl'stvo Akad. Nauk, 1965: SSSR, Moscow.
- Chukhrov, F.V., Arest-Yakubovitch, R.E. and Kozlova, N.A.
1940: On the composition of jarosites from the deposits of central Kazakhstan; *Akad. Nauk, Dokl.*, v. 28, no. 9, p. 829-831.
- Church, B.N.
1973: Geology of the White Lake basin; *B.C. Dep. Mines, Bull.* 61, 120 p.
- Chyi, L.L. and Crocket, J.H.
1976: Partition of platinum, palladium, iridium, and gold among coexisting minerals from the deep ore zone, Strathcona mine, Sudbury, Ontario; *Econ. Geol.*, v. 71, p. 1196-1205.
- Ciofică, G., Savu, H., Borcos, M., Stăfan, A. and Istrate, G.
1973: Alpine volcanism and metallogenesis in the Apuseni Mountains; *Symp. Volcanism Metallogenesis, Bucharest, Guideb.* No. 13, 70 p., Published by Geol. Inst. Bucharest.
- Cirkel, F.
1911: Alluvial gold deposits in Quebec; *Eng. Min. J.*, v. 92, p. 1035-1038.
- Cissarz, A.
1965: Einführung in die allgemeine und systematische, Lagerstättenlehre; E. Schweizerbart'sche Verlagsbuchhandlung, Stuttgart, 228 p.
- Clapp, C.H.
1915: Alunite and pyrophyllite in Triassic and Jurassic volcanics at Kyuquot Sound, British Columbia; *Econ. Geol.*, v. 10, p. 70-88.
- Clappison, R.J.S.
1953: The Morning Star mine, Wood's Point; *in Geology of Australian ore deposits*, vol. 1, A.B. Edwards, ed.; 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 1077-1081.
- Clark, E.S.
1955: The crystal structure of gold (III) chloride; Unpubl. thesis, Univ. Calif., Berkeley; U.S. At. Energy Comm., UCRL 3190, 48 p.
- Clark, E.S., Templeton, D.H. and MacGillavry, C.H.
1958: The crystal structure of gold (III) chloride; *Acta Crystallogr.*, v. 11, pt. 4, p. 284-288.
- Clark, L.A.
1960: The Fe-As-S system: phase relations and applications; *Econ. Geol.* v. 55, p. 1345-1381, 1631-1652.
- Clark, S.H.B., Condon, W.H., Foster, H.L. and Hoare, J.M.
1969: Geochemical data in the Sikonsina Pass area (Alaska), *in Some shorter mineral resource investigations in Alaska*; U.S. Geol. Surv., Circ. 615, p. 21-25.
- Clark, W.B.
1970: Gold districts of California; *Calif. Div. Mines Geol., Bull.* 193, 186 p.
- Clarke, E. de C. and Ellis, H.A.
1939: Metasomatism of country near ore-bodies and its possible economic significance; *Econ. Geol.*, v. 34, p. 777-789.
- Clarke, F.W.
1924: The data of geochemistry, 5th ed.; U.S. Geol. Surv., Bull. 770, 841 p.
- Clarke, F.W. and Washington, H.S.
1924: The composition of the earth's crust; U.S. Geol. Surv., Prof. Pap. 127, 117 p.
- Clayton, D.D. and Fowler, W.A.
1961: Abundances of heavy nuclides; *Ann. Phys. (New York)*, v. 16, p. 51-68.
- Clevenger, G.H. and Caron, M.H.
1925: The treatment of manganese-silver ores; U.S. Bur. Mines, Bull. 226, 110 p.
- Clifford, T.N.
1966: Tectono-metallogenic units and metallogenic provinces of Africa; *Earth Planet. Sci. Lett.*, v. 1, no. 6, p. 421-434.

- Clift, D.S.L.
1975: Gold dredging in New South Wales; Geol. Surv. N.S.W., Min. Res. 41, 148 p.
- Clifton, H.E.
1968: Gold distribution in surface sediments on the continental shelf off southern Oregon: a preliminary report; U.S. Geol. Surv., Circ. 587, 6 p.
- Clifton, H.E., Hubert, A. and Phillips, R.L.
1967: Marine sediment sample preparation for analysis for low concentrations of fine detrital gold; U.S. Geol. Surv., Circ. 545, 11 p.
- Clifton, H.E., Hunter, R.E., Swanson, F.J. and Phillips, R.L.
1969: Sample size and meaningful gold analysis; U.S. Geol. Surv., Prof. Pap. 625-C, p. C1-C17.
- Cloke, P.L.
1963: Synthetic and natural phases in the system Au-Ag-Te; Econ. Geol., v. 58, p. 1163-1166.
- Cloke, P.L. and Kelly, W.C.
1964: Solubility of gold under inorganic supergene conditions; Econ. Geol., v. 59, p. 259-270.
- Cobb, E.H.
1962: Lode gold and silver occurrences in Alaska; U.S. Geol. Surv., Min. Invest. Resour. Map MR-32.
1964: Placer gold occurrences in Alaska; U.S. Geol. Surv., Min. Invest. Resour. Map MR-38.
1973: Placer deposits of Alaska; U.S. Geol. Surv., Bull. 1374, 213 p.
- Cobb, J.C.
1967: A trace-element study of iron meteorites; J. Geophys. Res. v. 72, no. 4, p. 1329-1341.
- Cockfield, W.E.
1932: The geology of placer deposits; Can. Inst. Min. Metall., Trans. v. 35, p. 58-64.
- Coetzee, F.
1965: Distribution and grain-size of gold, uraninite, pyrite and certain other heavy minerals in gold-bearing reefs of the Witwatersrand Basin; Geol. Soc. S. Afr., Trans., v. 68, p. 61-88.
- Cohen, A.J.
1959: Moldavites and similar tektites from Georgia, U.S.A.; Geochim. Cosmochim. Acta, v. 17, p. 150-153.
- Cohen, E.M.
1962: Revised geology of the Tavua Goldfield, Fiji; Proc. Australas., Inst. Min. Metall., no. 204, p. 135-160.
- Coleman, A.P.
1901: The Vermilion River placers; Ont. Bur. Mines, v. 10, p. 151-159.
- Coleman, L.C.
1953: Mineralogy of the Yellowknife Bay area, N.W.T.; Am. Mineral., v. 38, p. 506-527.
1957: Mineralogy of the Giant Yellowknife Gold Mine, Yellowknife, N.W.T.; Econ. Geol., v. 52, p. 400-425.
- Colin, L.L.
1946: Gold fineness in relation to geology: considerations of the Macequeze field (Mozambique); S. Afr. Min. Eng. J., v. 57, pt. I, p. 279-283.
- Collender, F.D.
1964: The geology of the Cam and Motor Mine, southern Rhodesia; in The geology of some ore deposits in southern Africa, vol. II, S.H. Haughton, ed.; Geol. Soc. S. Afr., Johannesburg, p. 15-27.
1965: The mode of origin of blanket orebodies, discussion; Inst. Min. Metall., Trans., v. 74, p. 497-500.
- Collier, A.J., Hess, F.L., Smith, P.S. and Brooks, A.H.
1908: The gold placers of parts of Seward Peninsula, Alaska; U.S. Geol. Surv., Bull. 328, 343 p.
- Collins, G.E.
1902: The relative distribution of gold and silver values in the ores of Gilpin County, Colorado; Inst. Min. Metall., Trans. (London), v. 12, p. 480-499.
- Collins, R.S.
1975: Gold; Miner. Resour. Consultative Comm., Miner. Doss. no. 14, Her Majesty's Stationery Office, London, 66 p.
- Collins, W.H.
1925: North shore of Lake Huron; Geol. Surv. Can., Mem. 143, p. 160.
- Colombo, U.P., Sironi, G., Fasolo, G.R. and Malvano, R.
1964: Systematic neutron activation technique for the determination of trace metals in petroleum; Anal. Chem., v. 36, no. 4, p. 802-807.
- Conn, E.E.
1969: Cyanogenic glycosides; J. Agr. Food Chem., v. 17, no. 3, p. 519-526.
- Connolly, J.P.
1927: The Tertiary mineralization of the northern Black Hills; S. Dakota Sch. Mines, Bull. no. 15, 130 p.
- Connor, J.J., Shacklette, H.T. *et al.*
1975: Background geochemistry of some rocks, soils, plants, and vegetables in the conterminous United States; U.S. Geol. Surv., Prof. Pap. 574-F, 168 p.
- Cook, B., Duval, J. and Adams, J.A.S.
1971: Progress in the calibration of airborne gamma spectrometers for geochemical exploration; in Geochemical exploration, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 480-484.
- Cook, E.W.
1973: Elemental abundance in Green River oil shale; Chem. Geol., v. 11, no. 4, p. 321-324.
- Cooke, A.
1964: Canada's first gold rush; The Beaver, Summer, Hudson's Bay Co., p. 24-27.
- Cooke, H.C.
1943: Gold: the unrivalled medium of exchange; Can. Inst. Min. Metall., Bull., no. 374, p. 280-293.
1946: Canadian lode gold areas, summary account; Geol. Surv. Can., Econ. Geol. Ser., no. 15, 86 p.
- Cooke, H.C. and Johnston, W.A.
1932: Gold occurrences of Canada, summary account; Geol. Surv. Can., Econ. Geol. Ser., no. 10, 61 p.
- Cooke, H.R.
1947: The Original Sixteen to One gold-quartz vein, Alleghany, California; Econ. Geol., v. 42, p. 211-250.
- Cooper, M.
1971: Selected annotated bibliography on the geochemistry of gold, U.S. Geol. Surv., Bull. 1337, 63 p.
- Cooper, R.A.
1923: Mineral constituents of Rand concentrates; J. Chem. Metall. Min. Soc. S. Afr., v. 24, p. 90-95, 264-266.
- Cooper, W.G.G.
1934: The geology of the Prestea goldfield; Gold Coast Geol. Surv., Mem. no. 3, 20 p.
- Corcoran, R.E. and Zwick, H.W. (co-chairmen)
1975: Proceedings 5th Gold and Money Session and Gold Technical session; Pacific Northwest Metals and Minerals Conference, Portland, Oregon, Ore. Dep. Geol. Miner. Ind. publ., 201 p.
- Cordani, U.G., Amaral, G. and Kawashita, K.
1973: The Precambrian evolution of South America; Geol. Rundsch., v. 62, no. 2, p. 309-317.
- Corking, W.P.
1948: Pickle Crow mine; in Structural geology of Canadian ore deposits, vol. 1, Can. Inst. Min. Metall., Montreal, p. 373-376.
- Cormie, J.M.
1948: East Malartic mine; in Structural geology of Canadian ore deposits, vol. 1, Can. Inst. Min. Metall., Montreal, p. 865-867.
- Cornelius, K.D.
1967: Breccia pipe associated with epigenetic mineralization, Mount Morgan, Queensland; Econ. Geol., v. 62, p. 282-285.
1969: The Mount Morgan mine, Queensland — a massive gold-copper pyritic replacement deposit; Econ. Geol., v. 64, p. 885-902.

- Cornwall, H.R., Lakin, H.W., Nakagawa, H.M. and Stager, H.K.
1967: Silver and mercury geochemical anomalies in the Comstock, Tonopah, and Silver Reef districts, Nevada-Utah; U.S. Geol. Surv., Prof. Pap. 575-B, p. 10-20.
- Cotton, F.A. and Wilkinson, G.
1967: Advanced inorganic chemistry, 2nd ed.; Interscience Publishers, New York, 1136 p.
- Courtis, W.M.
1890: Gold quartz; Am. Inst. Min. Eng., Trans., v. 18, p. 639-644.
- Cousins, C.A.
1956: The value distribution of economic minerals with special reference to the Witwatersrand gold reefs; Geol. Soc. S. Afr., Trans., v. 59, p. 95-113.
1973: Platinoids in the Witwatersrand system; J. S. Afr. Inst. Min. Metall., v. 73, no 6, p. 184-199.
- Coveney, R.M.
1971: Hydrogen and serpentinite — their roles in the localization of gold ores at the Oriental Mine, Alleghany, California; Econ. Geol., v. 66, p. 1265-1266 (abstr.).
- Cox, D.P.
1967: Regional environment of the Jacobina auriferous conglomerates, Brazil; Econ. Geol., v. 62, p. 773-780.
- Crampton, F.A.
1937: Occurrence of gold in stream placers; Mining J., v. 20, no. 16, p. 3-4, 33-34.
- Crane, W.R.
1908: Gold and silver; John Wiley & Sons, Inc., New York, 727 p.
- Cranton, G.E. and Heyding, R.D.
1968: The gold/selenium system and some gold selenotellurides; Can. J. Chem., v. 46, p. 2637-2640.
- Crawford, A.R.
1970: Continental drift and un-continental thinking; Econ. Geol., v. 65, p. 11-16.
- Crocket, J.H. and Chyi, L.L.
1972: Abundances of Pd, Ir, Os and Au in an alpine ultramafic pluton; 24th Int. Geol. Congr., Montreal, Sec. 10, Geochemistry, p. 202-209.
- Crocket, J.H., Keays, R.R. and Hsieh, S.
1967: Precious metal abundances in carbonaceous and enstatite chondrites; Geochim. Cosmochim. Acta, v. 31, p. 1615-1623.
1968: Determination of some precious metals by neutron activation analysis; J. Radioanal. Chem., v. 1, p. 487-507.
- Crocket, J.H., Macdougall, J.D. and Harriss, R.C.
1973: Gold, palladium and iridium in marine sediments; Geochim. Cosmochim. Acta, v. 37, p. 2547-2556.
- Crocket, J.H., Teruta, J. and Garth, J.
1976: The relative importance of sulfides, spinels, and platinum minerals as carriers of Pt, Pd, Ir, and Au in the Merensky Reef at Western Platinum Limited, near Marikana, South Africa; Econ. Geol. v. 71, p. 1308-1323.
- Crocket, J.H., Vincent, E.A. and Wager, L.R.
1958: The distribution of gold in some basic and ultra-basic igneous rocks and minerals (abstr.); Geochim. Cosmochim. Acta, v. 14, p. 153-154.
- Crohn, P.W.
1965: Tennant Creek gold and copper field; in 8th Commonw. Min. Metall. Congr., Australia and New Zealand, Geology of Australian ore deposits, vol. 1, 2nd ed., J. McAndrew, ed., p. 176-182.
- Crook, W.J.
1939: Preliminary spectrographic and metallographic study of native gold; Am. Inst. Min. Metall. Eng., Tech. Publ. no. 998, 14 p.
- Crouse, C.S.
1925: The precious metal content of the black Devonian shales of Kentucky; in Oil Shales of Kentucky; Kentucky Geol. Surv. ser. 6, v. 21, p. 49-58.
- Csajka, M., Revina, L.D., Yukina, L.V. and Lavrukhina, A.K.
1974: Activation analysis of iron meteorites; Magyar Kemiai Folyoirat, v. 80, nos. 10-11, p. 484-487. (Chem. Abstr., v. 82, 10779t.)
- Cumenge E. and Robellaz, F.
1898: L'or dans la nature; P. Vicq-Dunod et Cie, Éditeurs, Paris, 106 p.
- Curle, J.H.
1899: The gold mines of the world, containing concise and practical advice for investors; Waterlow and Sons Ltd., London, 317 p.
1902: The gold mines of the world, 2nd ed.; Waterlow and Sons Ltd., London, 380 p.
1905: The gold mines of the world, 3rd ed.; George Routledge & Sons Ltd., London, 308 p.
- Curtin, G.C., Lakin, H.W. and Hubert, A.E.
1970: The mobility of gold in mull (forest humus layer); U.S. Geol. Surv., Prof. Pap. 700-C, p. 127-129.
- Curtin, G.C., Lakin, H.W., Hubert, A.E., Mosier, E.L. and Watts, K.C.
1971: Utilization of mull (forest humus layer) in geochemical exploration in the Empire district, Clear Creek, County, Colorado; U.S. Geol. Surv., Bull. 1278-B, 39 p.
- Curtin, G.C., Lakin, H.W., Neuerburg, G.J. and Hubert, A.E.
1968: Utilization of humus-rich forest soil (mull) in geochemical exploration for gold; U.S. Geol. Surv., Circ. 562, 11 p.
- Cusack, F.
1973: Bendigo, a history; Heinemann, Melbourne, 262 p.
- Cushing, C.E. and Rancitelli, L.A.
1972: Trace element analyses of Columbia River water and phytoplankton; Northwest Sci., v. 46, no. 2, p. 115-121.
- Czarnaske, G.K., Desborough, G.A. and Goff, F.E.
1973: Annealing history limits for inhomogeneous, native gold grains as determined from Au-Ag diffusion rates; Econ. Geol., v. 68, p. 1275-1288.
- Dadson, A.S.
1949: The Giant Yellowknife; Western Miner, v. 22, no. 10, p. 82-90.
- Dadson, A.S. and Bateman, J.D.
1948: Giant Yellowknife mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 273-283.
- Daly, R.A.
1914: Igneous rocks and their origin; McGraw-Hill Book Co., Inc., New York, 563 p.
- Darnley, A.G. and Grasty, R.L.
1971: Mapping from the air by gamma-ray spectrometry; in Geochemical exploration, R.W. Boyle and J.I. McGerigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 485-500.
- Darton, N.H.
1906: Geology of the Bighorn Mountains; U.S. Geol. Surv., Prof. Pap. 51, 129 p.
- Das Sarma, B., Sen, B.N. and Chowdhury, A.N.
1965: Platinum and gold contents of granite G-1 and diabase W-1; Econ. Geol., v. 60, p. 373-374.
- Dautov, A.I.
1973: Distribution of gold in dark coloured minerals in Kosh-rabads and Yakhtonsk intrusive rocks in western Uzbekistan; Akad. Nauk Uzb. SSR, Dokl., v. 30, p. 58-60. (Chem. Abstr., v. 81, 15462y.)

- Davidenko, N.M.
 1970: Zoning of auriferous ore bodies in the Keverveem area of the Chukotka Peninsula; *Geol. Rud. Mestorozhd.*, no. 2, p. 103–106.
 1973a: Mineralogical-geochemical characteristics of gold in Malo-Anyuisk region of western Chukotka; *Geol. Geofiz.*, no. 3, p. 133–139.
 1973b: Isometric crystals and dendrites of gold on a nugget; *Priroda*, no. 11, p. 123–124.
 1975: On the paragenesis of native gold and rock crystal on Chukotka; *Miner. Paragenезisy Miner. Endog. Mestorozhd.*; P.M. Tatarinov and D.V. Rundkvist, eds., Pub. "Nauka" Leningrad Otd., Leningrad, U.S.S.R., p. 122–125. (Chem. Abstr., v. 85, 81051x.)
- Davidson, C.B.
 1967: Geochemical prospecting abstracts, January 1961–December 1962; U.S. Geol. Surv., Open File Rep. 955.
- Davidson, C.B., Markward, E.L. and Cieslewicz, J.
 1967: Geochemical prospecting abstracts, July 1957–December 1960; U.S. Geol. Surv., Open File Rep. 954.
- Davidson, C.F.
 1953: The gold-uranium ores of the Witwatersrand; *Mining Mag.*, v. 88, p. 73–85.
 1957: On the occurrence of uranium in ancient conglomerates; *Econ. Geol.*, v. 52, p. 668–693.
 1962: On the cobalt: nickel ratio in ore deposits; *Mining Mag.*, v. 106, p. 78–85.
 1964: The mode of origin of banket orebodies; *Trans. Inst. Min. Metall.*, v. 74, pt. 6, p. 319–338. *Also* v. 74, pt. 12, p. 844–857.
 1965: A possible mode of origin of strata-bound copper ores; *Econ. Geol.*, v. 60, p. 942–954.
- Davidson, C.F. and Bowie, S.H.U.
 1951: On thucholite and related hydrocarbon-uraninite complexes, with a note on the origin of the Witwatersrand gold ores; *Geol. Surv. G.B., Bull.*, no. 3, p. 1–18.
- Davidson, S.
 1948: Beattie mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 692–701.
- Davidson, S. and Banfield, A.F.
 1944: Geology of the Beattie Gold Mine, Duparquet, Quebec; *Econ. Geol.*, v. 39, p. 535–556.
- Davies, D.N.
 1964: The nickel-tungsten-gold deposits at Forbes Reef, Hhohho District; Swaziland Geol. Surv. Mines Dep., Bull., no. 4, p. 45–50.
- Davies, D.N. and Hunter, D.R.
 1964: The gold deposits of the Barberton Mountain Land in Swaziland; in *The geology of some ore deposits in southern Africa*, v. 2; S.H. Haughton, ed.; Geol. Soc. S. Afr., Johannesburg, p. 59–75.
- Davies, J.F.
 1963: Geology and gold deposits of the Rice Lake–Wanipigow River area, Manitoba; unpubl. Ph.D. thesis, Univ. Toronto, Toronto.
 1964: Mineral deposits related to major structures in the Precambrian of Manitoba; *Can. Inst. Min. Metall., Bull.*, v. 57, no. 623, p. 313 (abstr.).
 1977: Structural interpretation of the Timmins mining area, Ontario; *Can. J. Earth Sci.*, v. 14, p. 1046–1053.
- Davies, J.L., Tupper, W.M., Bachinski, D., Boyle, R.W. and Martin, R.
 1969: Geology and mineral deposits of the Nigadoo River–Millstream River area, Gloucester County, New Brunswick; *Geol. Surv. Can., Pap.* 67–49, 70 p.
- Davies, O.
 1935: Roman mines in Europe; Clarendon Press, Oxford.
- Davletov, I.K.
 1970: Estimation of the average gold content in the main rock forming minerals of intrusive rocks; *Akad. Nauk SSSR, Dokl.*, p. 1448–1450.
 1974: Distribution of gold in rocks of an intrusive complex in the Chatkal zone of the Tien-Shan; *Geokhim.*, no. 4, p. 635–638. *Also* *Geochem. Int.*, v. 11, p. 456–458. (Chem. Abstr., v. 81, 124280h.)
- Davletov, I.K. and Dzhakshibayev, Sh.
 1970: The mineral balance and the behavior of gold during the emplacement of an intrusive body; *Geochem. Int.*, v. 7, no. 6, p. 997–1005.
- Davletov, I.K., Dzhenchruaeva, R.D. and Satykeev, D.S.
 1972: Types of skarns and their gold content in the Chatkal ore region; *Zap. Kirg. Otd. Vses. Mineral. Obshchest.*, no. 8, p. 27–33. (Chem. Abstr., v. 79, 94773k.)
- Davletov, I.K. and Popkov, N.N.
 1970: Major characteristics of gold metallogeny in the Kirghiz S.S.R.; in *Osn. Probl. Metallogen. Tyan-Shanya, Tr. Vses. Metallogen. Soveshch.* 5th 1968, M.M. Adyshev, ed., p. 417–424. (Chem. Abstr., v. 77, 22960e.)
- Davletov, I.K., Shchelkov, E.E. and Solov'eva, V.V.
 1973: Results of an experimental study of the form of a gold find in intrusive rocks; *Akad. Nauk SSSR, Dokl.*, v. 212, no. 1, p. 202–204. (Chem. Abstr., v. 80, 17475h.)
- Davydov, A.S. and Goroshko, G.G.
 1970: Comparative characteristics of gold from placer deposits situated near the Pyrkanaisk granitic massif, western Chukotka; *Vop. Geol., Geokhim. Metallogen. Sev.-Zap. Sek. Tikhookean. Poyasa, Mater. Nauch. Sess.* 1969, I.N. Govorov, ed., Dal'nevost. Geol. Inst., Vladivostok, U.S.S.R., p. 271–275. (Chem. Abstr., v. 75, 89986v.)
- Day, F.H.
 1963: The chemical elements in nature; Reinhold Publ. Corp., New York, 372 p.
- De Batz, R.
 1898: Les gisements aurifères de Sibérie; Chamerot et Renouard, Paris, 176 p.
 1899: The auriferous deposits of Siberia; *Am. Inst. Min. Eng., Trans.*, v. 28, p. 452–467.
- De Grazia, A.R. and Haskin, L.
 1964: On the gold content of rocks; *Geochim. Cosmochim. Acta*, v. 28, p. 559–564.
- De Jongh, A.C.
 1930: Gold in the Dutch East Indies; in *Gold resources of the world*; 15th Int. Geol. Cong., Pretoria, p. 107–122.
- De Kock, W.P.
 1940: The Ventersdorp contact reef; *Geol. Soc. S. Afr., Trans.*, v. 43, p. 85–108.
 1964: The geology and economic significance of the West Wits line; in *The geology of some ore deposits in southern Africa*, v. 1, S.H. Haughton, ed., Geol. Soc. S. Afr., Johannesburg, p. 323–386.
- De Kun, N.
 1965: The mineral resources of Africa; Elsevier, Amsterdam, 740 p.
- De Launay, L.
 1913: Gîtes minéraux et métallifères; tomes 1, 2 et 3, C.H. Béranger, Editeur, Paris et Liège.
- De Oliveira, E.P.
 1930: Gold in Brazil; in *Gold resources of the world*; 15th Int. Geol. Congr., S. Afr., p. 57–61.
 1932: Genesis of the deposits of auriferous jacutinga; *Econ. Geol.*, v. 27, p. 744–749.
- De Roever, W.P. and Lodder, W.
 1967: Indications of syngenetic origin of gold ore and ignimbrites near Rodalquilar (S.E. Spain); *Bull. Volcanol.*, t. 30, p. 35–40.
- De Villiers, J.E.
 1957: The mineralogy of the Barberton gold deposits; *S. Afr. Dep. Mines, Bull.*, 24, 60 p.

- Degens, E.T. and Ross, D.A., eds.
1969: Hot brines and recent heavy metal deposits in the Red Sea: a geochemical and geophysical account; Springer-Verlag, New York, 600 p.
- Dekate, Y.G.
1971: Absorption of gold by *Sorghum saccharatum Pers*; J. Indian Geosci. Assoc., v. 13, p. 75-78.
- Delitsyn, L.M.
1974: Experimental data on solubility, transport, and deposition of gold; Tr. Tsent. Nauch. Issled. Geologorazved. Inst. Tsvet, v. 112, p. 94-106. (Chem. Abstr., v. 83, 45803u.)
- Del Mar, A.
1880: A history of the precious metals; Bell and Sons, Ltd., London, 373 p.
- Demina, N.N.
1969: Gold and titanomagnetite of Kamchatka marine placers and their extraction; Tr. Tsent. Nauch. Issled. Gornorazved. Inst., no. 82, p. 128-130. (Chem. Abstr., v. 73, 37659e.)
- Denholm, L.S.
1967: Lode structures and ore shoots at Vatukoula, Fiji; Proc. Australas. Inst. Min. Metall., no. 222, p. 73-83.
- Denisov, S.V.
1973: The source-province of the marine near-shore gold placer deposits; Akad. Nauk. SSSR, Izv., Ser. Geol., no. 8, p. 73-78.
- Denisov, S.V., Koshman, P.N. and Yugay, T.A.
1966: Trace elements in gold from some districts of the Amur region; Geochem. Int., v. 3, p. 904-908.
- Dennen, W.H. and Puckett, A.M.
1972: On the chemistry and color of amethyst; Can. Mineral., v. 11, p. 448-456.
- Derby, O.A.
1884: Peculiar modes of occurrence of gold in Brazil; Am. J. Sci. Ser. 3, v. 28, p. 440-447.
1903: Notes on Brazilian gold ores; Am. Inst. Min. Eng., Trans., v. 33, p. 282-287.
1911: On the mineralization of the gold-bearing lode of Passagem, Minas Geraes, Brazil; Am. J. Sci., Ser. 4, v. 32, p. 185-190.
- Derry, D.R.
1951: A 3000 year old gold mine; Can. Min. J., v. 72 (pt. 2), no. 8, p. 68-72.
1961: Economic aspects of Archaean-Proterozoic boundaries; Econ. Geol., v. 56, p. 635-647.
- Derry, D.R. and Herz, H.C.
1948: Canadian Malartic mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 853-857.
- Derry, D.R., Hopper, C.H. and McGowan, H.S.
1948: Matachewan Consolidated mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 638-643.
- Desborough, G.A.
1970: Silver depletion indicated by microanalysis of gold from placer occurrences, western United States; Econ. Geol., v. 65, p. 304-311.
- Desborough, G.A., Heidel, R.H., Raymond, W.H. and Tripp, J.
1971: Primary distribution of silver and copper in native gold from six deposits in the western United States; Miner. Deposita (Berl.), v. 6, p. 321-334.
- Desborough, G.A., Raymond, W.H. and Jagmin, P.J.
1970: Distribution of silver and copper in placer gold derived from the northeastern part of the Colorado mineral belt; Econ. Geol., v. 65, p. 937-944.
- Deul, M.
1958: Biochemical and geochemical origins of ash-forming ingredients in coal; Am. Chem. Soc. Meet., Chicago, Div. Gas Fuel Chem., prepr. p. 169-182.
- Devereux, W.B.
1882: The occurrence of gold in the Potsdam Formation, Black Hills, Dakota; Am. Inst. Min. Eng., Trans., v. 10, p. 465-475.
- Dias, De, A.
1969: Gondomar antimony-gold mine; Port., Republ. Min. Econ. Dir. General Minas Serv. Geol., v. 19, fascs. 1-2, p. 91-170.
- Dickson, F.W., Radtke, A.S., Weissberg, B.G. and Heropoulos, C.
1975: Solid solutions of antimony, arsenic, and gold in stibnite (Sb_2S_3), orpiment (As_2S_3), and realgar (As_2S_2); Econ. Geol., v. 70, p. 591-594.
- Diller, J.S.
1914: Mineral resources of south-western Oregon; U.S. Geol. Surv., Bull. 546, 147 p.
- Dillon, V.S.
1955: Assay practice on the Witwatersrand; Transvaal and Orange Free State Chamber of Mines, Cape Times Ltd., 603 p.
- Diman, E.N.
1976: On minimum purity of gold in association with pyrite; Geokhim., no. 3, p. 404-412.
- Dimitrov, R., Kuikin, S. and Andreev, M.
1973: Geochemical methods used in prospecting for nonferrous and noble metals in the Bulgarian People's Republic; Sostoyanie Puti Dal'neishego Soversh. Metodov Poiskov Skrytykh Rudn. Tel. Svintsovo-Tsinskykh, Zoloto-Serebryanykh Mednykh, Olovyannykh Vol'framovykh Mestorozhd., Dokl. Semin., 1971, M.B. Borodaevskaya, ed., p. 149-163. (Chem. Abstr., v. 82, 142823n.)
- Distanov, E.G., Stebleva, A.T. and Obolenskii, A.A.
1975: Genesis of the Uderei gold-antimony deposit in the Enisei Ridge area; Geol. Geofiz., no. 8, p. 19-27. (Chem. Abstr., v. 84, 47318j.)
- Ditmar, G.V.
1966: Sampling gold of various ages in the northern part of the Stanovoy Range; Geol. Rud. Mestorozhd., v. 8, p. 92-96. Also Econ. Geol., v. 64, p. 359.
- Dobretsova, I.L. and Melnikova, R.D.
1977: Gold from ophiolite and glaucophane schist rock; Geol. Geophys. no. 1, p. 143-150 (in Russian).
- Dodin, A.L.
1941: Gold content of the Usin district of the Kuznetsk Alatau; Sov. Geol., no. 3, p. 108-109. (Chem. Abstr., v. 36, 6455, 7.)
- Dodin, D.A., Solomina, L.M. and Shatkov, V.A.
1973: Some aspects of the geochemistry of platinum minerals and gold, and their application in prospecting for the Norilsk-type copper nickel ore deposits; in The North Siberian nickel-bearing region and its economic outlook, N.N. Urvantsev *et al.*, eds., Ministry Geol. USSR, Leningrad, p. 108-115.
- Dodwell, C.R.
1971: Gold metallurgy in the twelfth century; Gold Bull., Chamber Mines S. Afr., v. 4, no. 3, p. 51-55.
- Doelter, C. *et al.*
1911- Handbuch der Mineralchemie; Verlag von Theodor
1931: Steinkopff, Dresden and Leipzig, 4 vols.
- Dolmage, V. and Brown, C.E.G.
1945: Contact metamorphism at Nickel Plate Mountain, Hedley, B.C.; Can. Inst. Min. Metall., Trans., v. 48, p. 27-85.
- Dolzhenko, B.H.
1973: A new type of gold mineralization in the Tien Shan; Akad. Nauk SSSR, Dokl., v. 210, no. 5, p. 1191-1192.
- Dolzhenko, V.N.
1975: On manifestation of gold mineralization in serpentinites; Acad. Sci. USSR, Dokl., v. 224, p. 1174-1176.
- Domaszewska, T.
1964: Occurrence and exploitation of gold in Lower Silesia; Przegl. Geol., v. 12, no. 4, p. 180-185.
- Dominian, L.
1912: History and geology of ancient gold-fields in Turkey; Am. Inst. Min. Eng., Trans., v. 42, p. 569-589.
- Don, J.R.
1898: The genesis of certain auriferous lodes; Am. Inst. Min. Eng., Trans., v. 27, p. 564-668.

- d'Orey, F.L.C.
1975: Contribution of termite mounds to locating hidden copper deposits; *Trans. Inst. Min. Metall.*, v. 84, p. B150-B151.
- Dorn, P.
1937: Pflanzen als Anzeichen für Erzlagerstätten; *Der Biol. (Munich)*, v. 6, p. 11-13.
- Dorr, J.V.N.
1969: Physiographic, stratigraphic, and structural development of the Quadrilátero Ferrífero, Minas Gerais, Brazil; *U.S. Geol. Surv., Prof. Pap.* 641-A, 110 p.
1971: Review: U.S.G.S. Prof. Pap. 641-A on the Quadrilátero Ferrífero, Minas Gerais, Brazil; *Econ. Geol.*, v. 66, p. 351-352.
- Dorr, J.V.N. and Miranda Barbosa, A.L.
1963: Geology and ore deposits of the Itabira district, Minas Gerais, Brazil; *U.S. Geol. Surv., Prof. Pap.* 341-C, 110 p.
- Dougherty, E.Y.
1935: Geologic problems of the Canadian pre-Cambrian gold fields; *Econ. Geol.*, v. 30, p. 879-889.
1936: Essential criteria in examining gold-quartz mines; *Eng. Min. J.*, v. 137, p. 44-45.
- Douglas, G.V.
1948: Structure of the gold veins of Nova Scotia; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 919-926.
- Douglas, R.J.W., ed.
1970: *Geology and economic minerals of Canada*; *Geol. Surv. Can., Econ. Geol. Rep.* no. 1 (5th ed.), 838 p.
- Dowie, D.L.
1964: The mode and origin of banket orebodies, discussion; *Inst. Min. Metall., Trans.*, v. 74, p. 500-503.
- Dresser, J.A.
1908: Report on a recent discovery of gold near Lake Megantic, Quebec; *Can., Dep. Mines, Geol. Surv. Br. Publ.*, v. 2, no. 1028, 13 p.
- Dresser, J.A. and Denis, T.C.
1949: *Geology of Quebec*, v. 3, *Economic geology*; *Que. Dep. Mines, Geol. Rep.* 20, 562 p.
- Drewes, H.
1967: A geochemical anomaly of base metals and silver in the southern Santa Rita mountains, Santa Cruz county, Arizona; *U.S. Geol. Surv., Prof. Pap.* 575-D, p. 176-182.
- Drysdale, C.W.
1915: *Geology and ore deposits of Rossland*; *Geol. Surv. Can., Mem.* 77, 317 p.
- Du Bois, G.C.
1903: Beitrag zur Kenntnis der surinamischen Laterit — und Schutzrinden—bildungen; *Tschermak's Mineral. Petrog. Mitt.*, v. 22, p. 1-61.
- Du Toit, A.L.
1940: Developments on and around the Witwatersrand; *Econ. Geol.*, v. 35, p. 98-108.
- Dudey, N.D., Ross, L.E. and Noshkin, V.E.
1969: Application of activation analysis and Ge(Li) detection techniques for the determination of stable elements in marine aerosols; *U.S. Natl. Bur. Stand., Spec. Publ.* 312, pt. 1, p. 55-61.
- Duffell, S.
1937: Diffusion and its relation to ore deposition; *Econ. Geol.*, v. 32, p. 494-510.
- Dugas, J.
1966: The relationship of mineralization to Precambrian stratigraphy in the Rouyn-Noranda area, Quebec; *Geol. Assoc. Can., Spec. Pap.* 3, p. 43-55.
- Dunbar, W.R.
1948: Structural relations of the Porcupine ore deposits; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 442-456.
- Dumble, E.T.
1913: The occurrence of gold in the Eocene deposits of Texas; *Am. Inst. Min. Eng., Trans.*, v. 44, p. 588-591.
- Dunn, E.J.
1905: The Mount Morgan gold mine, Queensland; *R. Soc. Victoria, Proc. (New Series)*, v. 17, pt. 2, p. 341-355.
1929: *Geology of gold*; Charles Griffin & Co. Ltd., London, 303 p.
- Dunn, P.G.
1976: Zonation of hydrothermal minerals at the Juno mine, Tennant Creek goldfield, central Australia — a discussion; *Econ. Geol.*, v. 71, p. 1614.
- Duong, P.K.
1965: Enquête sur l'or dans les roches, origins de l'or des gisements; *Chronique des mines et de la recherche minière*, 33 année, no. 343, p. 175-188.
- Dvornikov, A.G.
1964: Types of mercury dispersion aureoles in the south-eastern part of the Donets Basin; *Akad. Nauk SSSR, Dokl.*, v. 154, no. 5, p. 1110-1112 (*Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 154, nos. 1-6, p. 158-160).
- Dvornikov, A.G., Ovsyannikov, L.B. and Sidenko, O.G.
1973: Biogeochemical dispersion haloes of chalcophile elements in gold ore deposits of the Nagol'nyi Ridge (Donets Basin); *Dopov. Akad. Nauk Ukr. RSR, Ser. B.*, v. 35, no. 6, p. 490-494. (*Chem. Abstr.*, v. 79, 145290k.)
- Dvornikov, A.G., Tkach, B.I., Shtanchenko, M.S. and Antonov, V.M.
1964: Minerals of the native element group in loose rocks and soils of the Nagol'nyi Ridge; *Dopov. Akad. Nauk Ukr. RSR*, no. 9, p. 1226-1229. (*Chem. Abstr.*, v. 62, 1449g.)
- Dvornikov, A.G., Vasilevskaya, A.E. and Shcherbakov, V.P.
1963: Mercury dispersion aureoles in the soils of the Nagol'nyi Range; *Geochemistry*, no. 5, p. 501-509.
- Dyachenko, A.P., Legendza, V. Ya., Shelekhov, A.N. and Radionova, Ye. S.
1970: Auriferous ore occurrences in Precambrian rocks of the Stary Oskol region of the Kursk magnetic anomaly; *Geol. Rud. Mestorozhd.*, no. 3, p. 92-96. *Also Akad. Nauk SSSR, Dokl.*, v. 193, no. 2, p. 415-417.
- Dyck, W.
1969: Development of uranium exploration methods using radon; *Geol. Surv. Can., Pap.* 69-46, 26 p.
1971: The adsorption and coprecipitation of silver in hydrous oxides of iron and manganese; *Geol. Surv. Can., Pap.* 70-64, 23 p.
- Dyer, W.S.
1936: *Geology and ore deposits of the Matachewan-Kenogami area*; *Ont. Dep. Mines*, v. 44, pt. 2, p. 1-55.
- Dzhantuganov, N.I.
1973: Geological-petrologic characteristics of the Sultansary gold ore deposit (northern Tien-Shan); *Uzb. Geol. Zh.*, v. 17, no. 2, p. 56-59. (*Chem. Abstr.*, v. 80, 39277x.)
1974: Morphology of the native gold from several types of rocks and ores of the regions of northern Tien Shan; *Uzb. Geol. Zh.*, v. 18, no. 3, p. 35-38.
- Dzhukebaev, I.K. and Marichev, K.I.
1975: Endogenic gold and rare metal mineralization and magmatism of the southern part of the Sarysu-Teniz uplift; *Akad. Nauk Kaz. SSR, Izv., Ser. Geol.*, v. 32, no. 2, p. 24-31. (*Chem. Abstr.*, v. 83, 135090p.)
- Eakins, G.R.
1968: A geochemical investigation of the Wood River-Tikchik Lakes area, southwestern Alaska; *Alaska, Dep. Nat. Resour., Div. Mines, Miner., Geochem. Rep.*, no. 17, p. 1-31.
- Eales, H.V.
1961: Fineness of gold in some southern Rhodesian gold mines; *Inst. Min. Metall., Trans.*, v. 71, no. 660, p. 49-73.
1962: The occurrence of aurostibite in the Gwanda District, southern Rhodesia; *Geol. Soc. S. Afr., Trans.*, v. 65, pt. 2, p. 79-83.
1968: Determining fineness variation characteristics in gold ores by reflectometry; *Econ. Geol.*, v. 63, p. 688-691. Discussion by E.F. Stumpfl, *Econ. Geol.*, v. 64, p. 341-342.

- Eales, H.V. and Viljoen, E.A.
1973: Determination of silver content of natural gold alloys by reflected-light microscopy; *Inst. Min. Metall., Trans., Sec. B*, v. 82, p. 47-50.
- Earl, T.C.
1915: The testing of alluvials; privately printed, 86 p.
- Ebbutt, F.
1948: Relationships of minor structures to gold deposition in Canada; in *Structural geology of Canadian ore deposits*; v. 1, Can. Inst. Min. Metall., Montreal, p. 64-77.
- Echegoyén, S.J., Romero, M.S. and Velázquez, S.S.
1972: Geology and mineral deposits of the central part of the Guanajuato mining district, Mexico; *Mex., Cons. Recursos Natur. Renov., Bol. no. 75*. (Chem. Abstr., v. 80, 50549h.)
- Eddingfield, F.T.
1913a: Alteration and enrichment in calcite quartz-manganese gold deposits in the Philippine Islands; *Philipp. J. Sci.*, v. 8, p. 125-134.
1913b: *Gogo, Entada Scandens* Benthams, and its effect on gold and gold solutions; *Philipp. J. Sci.*, v. 8, p. 135-139.
- Edwards, A.B.
1953: Geology of Australian ore deposits, v. 1, 5th Emp. Min. Metall., Congr., Australia and New Zealand, 1290 p.
1958: The mineral composition of the Maude and Yellow Girl gold ore, Glen Wills, Victoria; F.L. Stillwell Anniv. Vol., Melbourne, Australas. Inst. Min. Metall., p. 105-132.
- Efendiev, G.Kh. and Babaeva, E.E.
1970: Distribution of silver, bismuth, and gold in the sulphide minerals of complex ore deposits of the Lesser Caucasus (Azerbaijan S.S.R.); *Issled. Obl. Neorg. Fiz. Khim.*, p. 18-26, I.A. Orudzheva, ed., "Elm", Baku, Azerb. SSR. (Chem. Abstr., v. 76, 74702w.)
- Egleston, T.
1881: The formation of gold nuggets and placer deposits; *Am. Inst. Min. Eng., Trans.*, v. 9, p. 633-646.
- Ehmann, W.D.
1971: Gold, in *Handbook of elemental abundances in meteorites*, B. Mason, ed.; Gordon and Breach Science Publishers, New York, p. 479-485.
- Ehmann, W.D. and Baedeker, P.A.
1968: The distribution of gold and iridium in meteoric and terrestrial materials; in *Origin and distribution of the elements*, L.H. Ahrens, ed., Pergamon Press, Oxford, p. 301-311.
- Ehmann, W.D., Baedeker, P.A. and McKown, D.M.
1970: Gold and iridium in meteorites and some selected rocks; *Geochim. Cosmochim. Acta*, v. 34, p. 493-507.
- Ehmann, W.D. and Gillum, D.E.
1972: Platinum and gold in chondritic meteorites; *Chem. Geol.*, v. 9, no. 1, p. 1-11.
- El Boushi, I.M.
1972: Geology of the Gebeit gold mine, Democratic Republic of the Sudan; *Econ. Geol.*, v. 67, p. 481-486.
- El Shazly, E.M.
1957: Classification of Egyptian mineral deposits; *Egypt. J. Geol.*, v. 1, no. 1, p. 1-20.
- Eleyeva, I.V. and Rusinova, O.V.
1969: Genesis and prospecting importance of quartz-kaolinite formations of upper horizons of the Balei deposit; *Geol. Rud. Mestorozhd.*, v. 11, no. 4, p. 88-95.
- Ellert, R.
1974: Gold mineralization associated to volcanism in the Quadrilatero ferrifero ("Iron Quadrangle"), Minas Gerais, Brazil, Abstracts of Papers, Int. Assoc. Genesis Ore Deposits (IAGOD), Varna, Bulgaria, p. 441-443.
- Elley, H.W.
1915: Precipitants of gold and silver (discussion); *Econ. Geol.*, v. 10, no. 6, p. 580-582.
- Elliott, J.E. and Wells, J.D.
1968: Anomalous concentrations of gold, silver, and other metals in the Mill Canyon area, Cortez Quadrangle, Eureka and Lander counties, Nevada; *U.S. Geol. Surv., Circ. 606*, 20 p.
- Ellis, A.J.
1967: The chemistry of some explored geochemical systems; in *Geochemistry of hydrothermal ore deposits*, H.L. Barnes, ed., Holt, Rinehart and Winston, Inc., New York, p. 465-514.
- Emel'yanov, E.L. and Perfil'ev, V.V.
1973: New types of endogenous rare metal and gold mineralization in the Paleozoic activation zone of a region in eastern Siberia; *Metall. Obl. Tekt. Magmat. Akt., Tezisy Dokl. Vses. Metall. Soveshch.*, 7th, M.M. Odintsov, ed., Akad. Nauk SSSR, Sib. Otd., Inst., Zemnoi Kory, Irkutsk, U.S.S.R., p. 177-178. (Chem. Abstr., v. 82, 158713n.)
- Emery, J.F. and Leddicotte, G.W.
1961: The radiochemistry of gold; *Natl. Acad. Sci., Natl. Res. Council. Nucl. Sci. Ser. NAS-NS 3036*, 34 p.
- Emmons, S.F.
1886: Geology and mining industry of Leadville, Colo.; *U.S. Geol. Surv., Monogr. 12*, v. 2, p. 585-608.
1901: The secondary enrichment of ore deposits; *Am. Inst. Min. Eng., Trans.*, v. 30, p. 177-217.
1903: Platinum in copper ores in Wyoming; in *Contributions to economic geology, 1902*, U.S. Geol. Surv., Bull. 213, p. 94-97.
- Emmons, W.H.
1917: The enrichment of ore deposits; *U.S. Geol. Surv., Bull.* 625, 530 p.
1924: Primary downward changes in ore deposits; *Am. Inst. Min. Eng., Trans.*, v. 70, p. 964-997.
1932: Prospecting in the shield area; *Eng. Min. J.* v. 133, p. 139-140.
1937: Gold deposits of the world; McGraw-Hill Book Company Inc., New York, 562 p.
1940: The principles of economic geology, McGraw-Hill Book Company Ltd., New York, 529 p.
- Emmons, W.H. and Calkins, F.C.
1913: Geology and ore deposits of the Philipsburg quadrangle, Montana; *U.S. Geol. Surv., Prof. Pap. 78*, 271 p.
- Emmons, W.H. and Larsen, E.S.
1923: Geology and ore deposits of the Creede district, Colorado; *U.S. Geol. Surv., Bull.* 718, 198 p.
- Enikeev, A.M.
1972: Geological characteristics of the Daugyztau deposit; *Nauch. Tr., Tashkent, Gos. Univ.*, no. 429, p. 331-334. (Chem. Abstr., v. 80, 29214k.)
- Entin, A.R.
1975: Presence of gold in Archean iron ore deposits of the central part of the Aldan Shield; *Akad. Nauk SSSR, Dokl.*, v. 223, no. 3, p. 722-725. (Chem. Abstr., v. 84, 20401u.)
- Epshtein, Yu. A.
1969: Gneissic dome in southern Primor'ye and its effect on the distribution pattern of gold; *Sov. Geol.* no. 1, p. 116-118, 1968. *Also* *Int. Geol. Rev.*, v. 11, no. 1, p. 135-137.
1973: Senonian magmatism of the southern maritime territory and gold mineralization related to it; *Vop. Magmat., Metamorf. Orugeniya Dal'nego Vostoka, Dal'nevost. Petrogr. Reg. Soveshch. (Mater.)*, 2nd 1972 S.S. Zimin, ed., Akad. Nauk SSSR, Dal'nevost. Nauch. Tsentr., Vladivostok, U.S.S.R., p. 232-234. (Chem. Abstr., v. 81, 155902s.)
- Erämettä, O.
1954: The distribution and transport of gold in the sulfate pulping process and mineral synthesis which occur in the sulfate process smelter furnace; *Suom. Kemistilehti* 27A, p. 204-207. (Chem. Abstr., v. 51, 14264i.)

- Eremeev, A.N., Sokolov, V.A., Solovov, A.P. and Yanitskii, I.N.
1973: Application of helium surveying to structural mapping and ore deposit forecasting; in *Geochemical exploration*, 1972, M.J. Jones, ed., Inst. Min. Metall. (London), p. 183-192.
- Eremin, R.A.
1970: Relation of adularization to gold-silver mineralization in the Finish ore occurrence, Okhotsk-Chukotka volcanic belt; *Geol. Geofiz.*, no. 2, p. 34-40. (Chem. Abstr., v. 73, 27538a.)
- Erenburg, A.M. and Peshchevitskiy, B.I.
1969: On the stability of iodide complexes of gold (I) in aqueous solutions; *Zh. Neorg. Khim.*, v. 14, no. 3, p. 932-935.
- Erikson, J.E.
1957: Geochemical prospecting abstracts, July 1952-December 1954; U.S. Geol. Surv., Bull. 1000-G, p. 357-395.
- Erickson, R.L. and March, S.P.
1971: Geochemical, aeromagnetic, and generalized geologic maps showing distribution and abundance of mercury, arsenic, antimony, tungsten, gold, copper, lead and silver, Golconda and Iron Point quadrangles, Humboldt County, Nevada; U.S. Geol. Surv., Misc. Field Studies Maps MF-312, MF-313, MF-314 and MF-315.
1973: Geochemical, aeromagnetic and generalized geologic maps showing distribution and abundance of lead, silver, gold, copper, mercury, arsenic, antimony, tungsten, molybdenum, and zinc, Goldrun Creek quadrangle, Humboldt County, Nevada; U.S. Geol. Surv., Misc. Field Studies Maps MF-506, MF-507 and MF-508.
1974: Geochemical, aeromagnetic, and generalized geologic maps showing distribution and abundance of mercury, arsenic, antimony, tungsten, gold, copper, molybdenum, lead, bismuth, and silver, Brooks Spring quadrangle, Humboldt County, Nevada; U.S. Geol. Surv., Misc. Field Studies Maps MF-563, MF-564, MF-565, MF-566 and MF-567.
- Erickson, R.L., Marranzino, A.P., Oda, U. and Janes, W.W.
1964: Geochemical exploration near the Getchell mine, Humboldt County, Nevada; U.S. Geol. Surv., Bull. 1198-A, 26 p.
- Erickson, R.L., Van Sickle, G.H., Nakagawa, H.M., McCarthy, J.H. and Leong, K.W.
1966: Gold geochemical anomaly in the Cortez district, Nevada; U.S. Geol. Surv., Circ. 534, 9 p.
- Ershov, A.D.
1974: On the relation of the deposits belonging to nickel-cobalt-gold (silver)-bismuth-uranium (five metal) formation to tectonic activation; *Geol. Rud. Mestorozhd.*, no. 5, p. 86-89.
- Ershov, V.M. and Shcheglova, A.I.
1958: Germanium in mine waters of the Kizelov coal basin; *Geochemistry*, no 4, p. 490-492.
- Ershov, Sh. E., ed.
1971: The gold fields of North Kazakhstan; "Nauka" Publ. House, Acad. Sci. Kazakh SSR, Alma Ata, 167 p.
- Ertl, R.F., Niedermayr, G. and Seemann, R.
1975: *Tauerngold*; Veroeff. Naturhistorischen Mus., Neue Folge 10, Verlag Naturhistorisches Mus., Wien, Erscheinungsort Wien, 31 p.
- Esenov, Sh.E. et al.
1968: Main characteristics of the Kazakhstan endogenic metallogeny; *Metallogen. Tyan-Shanya*, p. 224-225. (Chem. Abstr., v. 71, 62970r.)
1970: Main characteristics of Kazakhstan metallogeny; *Zakonomer. Razmeshcheniya Polez. Iskop.*, no. 9, p. 145-161. (Chem. Abstr., v. 74, 144509y.)
- Eshkin, V.Yu.
1965: Nugget gold in rock crystal-bearing quartz vein from the Circumpolar Urals; *Zap. Vses. Mineral. Obshchest.*, v. 94, no. 2, p. 203-204. (Chem. Abstr., v. 63, 2751c.)
- Evangelov, B.B., Zysin, A.M., Arskii, Yu.M. and Faizullin, R.M.
1971: Variability of metal content and the optimum number of prospecting network points in one of the gold deposits of Yakut, A.S.S.R.; *Zap. Leningrad. Gorn. Inst.*, v. 60, no. 2, p. 102-111. (Chem. Abstr., v. 76, 61737m.)
- Evans, T.G.
1975: Gold in Texas; *Tex., Bur. Econ. Geol., Miner. Res. Circ.* 56, 36 p.
- Evseev, Yu.P., Grabeklis, R.V., Zinov'eva, G.N. and Polokhov, V.P.
1973: Major ore formations of the Kara gold-bearing region; their relation to magmatism and prospecting features; *Geol. Nek. Rudn. Raionov Polei Zabaik.*, F.I. Vol'fson, ed., p. 107-114. (Chem. Abstr., v. 84, 62601q.)
- Ewers, G.R. and Keays, R.R.
1977: Volatile and precious metal zoning in the Broadlands geothermal field, New Zealand; *Econ. Geol.*, v. 72, p. 1337-1354.
- Ewers, W.E.
1969: Hydrothermal transport and deposition of gold; *Econ. Geol.*, v. 64, p. 575.
- Fahlgren, J.E.J.
1975: An analysis of gold mining in the context of present economic conditions; *Can. Inst. Min. Metall., Bull.*, v. 68, p. 113-115.
- Fainshtein, G. Kh.
1974: Weathering crusts and their role in the alluvial ore formation in the mantle of the Siberian platform; *Rudonos. Kory Vyvetrivaniya*, V.I. Smirnov, ed., "Nauka" Moscow, U.S.S.R., p. 271-277. (Chem. Abstr., v. 82, 75593x.)
- Fairbairn, H.W. et al.
1951: A cooperative investigation of precision and accuracy in chemical, spectrochemical, and modal analysis of silicate rocks; U.S. Geol. Surv., Bull. 980, 71 p.
- Fakhry, A.A.
1965: Zoning of primary dispersion haloes over a gold deposit and the migration capacity of the elements; *Vest. Mosk. Univ., Ser. IV, Geol.*, v. 20, no. 5, p. 31-43. (Chem. Abstr., v. 64, 10938.)
1974: Geochemical studies at the Fawakhir gold mine, Eastern Desert, Egypt, 2. Infrared absorption spectroscopy as a means of characterising the primary dispersion haloes of gold deposits; *J. Geochem. Explor.*, v. 3, p. 265-275.
- Faribault, E.R.
1926: The gold measures of Nova Scotia and deep mining; *N.S. Dep. Pub. Works Mines, Halifax, N.S., Repr.* 15 p.
- Farmin, R.
1938: Dislocated inclusions in gold-quartz veins at Grass Valley, California; *Econ. Geol.*, v. 33, p. 579-599.
1941: Host-rock inflation by veins and dikes at Grass Valley, California; *Econ. Geol.*, v. 36, p. 143-174.
- Fawley, A.P.
1947: An electrum-ruby silver deposit at East gold mine, B.C.; *Can. Inst. Min. Metall., Bull.* no. 426, p. 460-470.
- Fayzullin, R.M.
1967: Lithological-facies characteristics and the gold content of a series of conglomerates of the Kamensk deposit; *Vop. Rudonos. Vost. Zabaikal.*, F.I. Vol'fson, ed., *Izd. "Nedra"*; Moscow, U.S.S.R., p. 126-140. (Chem. Abstr., v. 70, 108202b.)
1968: Problem of intermediate collectors of gold; *Int. Geol. Rev.*, v. 10, no 12, p. 1383-1385.
- Fayzullin, R.M. and Tolmacheva, T. Ya.
1971: Nature of native gold from the placers of the Chikoi-Menzinsk interfluvium (western Transbaikalia); *Vop. Reg. Geol. Metallogen. Zabaikal.*, no 6, p. 39-48. (Chem. Abstr., v. 77, 154966w.)
- Fayzullin, R.M. and Turchinova, D.M.
1974: On relationships between gold placers and primary sources or intermediate collectors; *Akad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 212, p. 242-243 (*Am. Geol. Inst. Transl.*).

- Fazal-Ur-Rehman
1972: The determination of gold by radiochemical and non-destructive neutron activation analyses in some sulphide ore samples from Pakistan; Punjab. Univ., Geol. Bull., no. 9, p. 37-42.
- Fazal-Ur-Rehman, Brunfelt, A.O. and Finstad, K.G.
1974: Gold, silver, and mercury in material from some Norwegian sulphide mines; Norg. Geol. Unders., no. 311, p. 17-24.
- Feather, C.E. and Koen, G.M.
1975: The mineralogy of the Witwatersrand reefs; Min. Sci. Eng., v. 7, no 3, p. 189-224.
- Fedorenko, Ya.D.
1962: Geochemical methods for prospecting for gold deposits in the Transbaikalian region; Byull. Nauch. Tekh. Inform. Min. Geol. Okhr. Nedr SSSR, no. 1, p. 41-42. (Chem. Abstr., v. 60, 11760h.)
- Fedorov, B.M.
1947: Mesozoic placers of the Uchalin region in the southern Urals; Razved. Okhr. Nedr., v. 13, no. 1, p. 8-11. (Chem. Abstr., v. 41, 5824a.)
- Feigl, F.
1958: Spot tests in inorganic analysis, 5th ed.; Elsevier, Amsterdam, 600 p.
- Fel'dman, A.A.
1966: Geophysical and geochemical research in prospecting for gold ore deposits of the Kuranach type; Min. Geol. SSSR, Moscow, 52 p. (Chem. Abstr., v. 67, 92929u.)
- Fel'dman, A.A., Slepnev, P.V. and Kul'kov, B.N.
1975: Use of gamma spectrometry in prospecting for gold ore deposits near the surface; Razved. Okhr. Nedr, no. 10, p. 59-60. (Chem. Abstr., v. 84, 138431g.)
- Feldtmann, F.R.
1916: Contributions to the study of the geology and ore deposits of Kalgoorlie, Geol. Surv. W. Aust., Bull., no. 69, pt. 3, 152 p.
- Felippe, J.C. and Martins, T.
1926: Radioactivity and oligodynamic action of minerals; Compt. Rend. Soc. Biol. v. 95, p. 1488-1489. (Chem. Abstr., v. 22, 1928, p. 250-251.)
- Fells, P.D.
1975: Gold in 1975; Consolidated Gold Fields Limited, London, 48 p.
- Fells, P.D. and Glynn, C.
1976: Gold 1976; Consolidated Gold Fields Limited, London, 26 p. plus appendices.
- Ferguson, H.G.
1913: Lode deposits of the Alleghany district, California; U.S. Geol. Surv., Bull. 580, p. 153-182.
1917: Placer deposits of the Manhattan district, Nevada; U.S. Geol. Surv., Bull. 640-J, p. 163-193.
- Ferguson, H.G. and Gannett, R.W.
1929: Gold-quartz veins of the Alleghany District, California; Am. Inst. Min. Metall. Eng., Tech. Publ. no. 211, 40 p.
- Ferguson, R.B.
1950: Red gold from the San Antonio gold mine, Bissett, Manitoba; Am. Mineral., v. 35, p. 459-460.
- Ferguson, S.A.
1966: The relationship of mineralization to stratigraphy in the Porcupine and Red Lake areas, Ontario; Geol. Assoc. Can., Spec. Pap. 3, p. 99-119.
- Ferguson, S.A., Groen, H.A. and Haynes, R.
1971: Gold deposits of Ontario, Part I. Districts of Algoma, Cochrane, Kenora, Rainy River, and Thunder Bay; Ont. Dep. Mines North. Affairs, Mineral. Res. Circ. no. 13, 315 p.
- Fernandes, L.L.
1961: The gold and diamond deposits of British Guiana; Proceed. Inter-Guiana Geol. Conf., 5th, p. 273-283.
- Fersman, A.E.
1934- Geochemistry, vols. 1-4; Leningrad.
1939:
1939: Gold; in Geochemistry, v. 4, Leningrad, p. 262-271.
- Fetzer, W.G.
1934: Transportation of gold by organic solutions; Econ. Geol., v. 29, p. 599-604.
1946: Humic acids and true organic acids as solvents of minerals; Econ. Geol., v. 41, p. 47-56.
- Field, C.W.
1966: Sulfur isotopic method for discriminating between sulfates of hypogene and supergene origin; Econ. Geol., v. 61, p. 1428-1435.
- Finch, J.W. *et al.*, ed.
1933: Ore deposits of the western States (Lindgren Vol.); Am. Inst. Min. Metall. Eng., New York, 797 p.
- Finkelshtein, Yu.V.
1970: Concerning the relation between the mercury and the gold mineralization in Uzbekistan; Razved. Okhr. Nedr., no. 6, Tashkent, U.S.S.R., p. 7-9.
- Finkelstein, N.P. and Hancock, R.D.
1974: A new approach to the chemistry of gold; Gold Bull. (Natl. Inst. Metall., Johannesburg, S. Afr.), v. 7, no. 3, p. 72-77.
- Finlayson, A.M.
1909: Problems in the geology of the Hauraki gold fields, New Zealand; Econ. Geol., v. 4, p. 632-645.
- Finucane, K.J.
1953: The Hill 50 gold mine, Boogardie; in Geology of Australian ore deposits, v. 1, 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 231-235.
1965: Ore distribution and lode structures in the Kalgoorlie goldfield, in Geology of Australian ore deposits, v. 1, 2nd ed., J. McAndrew, ed., 8th Commonw. Min. Metall. Congr., Australia and New Zealand, p. 80-86.
- Finucane, K.J. and Jensen, H.E.
1953: Lode structures in the Kalgoorlie goldfield; in Geology of Australian ore deposits, v. 1, A.B. Edwards, ed., 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 94-111.
- Firsov, L.V.
1956: Conditions for the occurrence of albite in gold quartz veins; Zap. Vses. Mineral. Obshchest. v. 85, p. 228-232. (Chem. Abstr., v. 51, 2963c.)
1963: Gold in the Yana-Kolyma folded belt; Geol. Metallogeni. Sov. Sekt. Tikhookean. Rud. Poyasa, Akad. Nauk SSSR, Sibirsk. Otd., Dal'nevost. Filial, Dal'nevost. Geol. Inst., p. 290-304. (Chem. Abstr., v. 61, 4075e.)
1967: Gold-quartz ore deposits of the Yana-Kolyma belt; in Endogennyye rudnyye formatsii Sibiri i Dal'nego Vostoka (Engogene ore formations of Siberia and the Far East); Moscow, Nauka, p. 132-144. Also Int. Geol. Rev., v. 9, no. 12, p. 1544-1552.
- Fischer, K.W.
1958- Zur geochemie der edelmetalle; Wiss. Z. Hochsch. Arki-
1959: tekt. Bauw. Weimar, v. 6, no. 2, p. 85-91.
1966: Edelmetalle in der Saale und in ihrem Einzugsgebiet; Geol. Jahr. 15, Heft 4/5, p. 550-561.
- Fischer, R.P. and Fisher, F.S.
1968: Interpreting pan-concentrate analyses of stream sediments in geochemical exploration for gold; U.S. Geol. Surv., Circ. 592, 9 p.
- Fisher, E.I. and Fisher, V.L.
1970: Prospecting for gold ore deposits in northeastern Transbaikalia based on their relation with secondary dispersion haloes and alluvial gold placers; Vop. Reg. Geol. Metallogen. Zabaikal., no. 5, p. 108-114. (Chem. Abstr., v. 78, 100429a.)
- Fisher, E.I., Fisher, V.L. and Miller, A.D.
1974: Nature of the interaction of natural organic acids with gold; Sov. Geol., no. 7, p. 142-146. (Chem. Abstr., v. 82, 19513j.)
- Fisher, J.R.
1976: Gold in the search for the Americas; Gold Bull., Chamber Mines S. Afr. v. 9, no. 2, p. 58-63.

- Fisher, M.S.
1935: The origin and composition of alluvial gold, with special reference to the Morobe goldfield, New Guinea; *Inst. Min. Metall., Bull.* (London), no. 365, p. 1-46.
- Fisher, N.H.
1945: The fineness of gold with special reference to the Morobe goldfield; New Guinea; *Econ. Geol.*, v. 40, p. 449-495, 537-563.
1950: Application of gold fineness to the search for ore; *Australas. Inst. Min. Metall., Proc.*, nos. 156-157, p. 185-190.
- Fisher, N.H., ed.
1973: Metallogenic provinces and mineral deposits in the southwestern Pacific; *Aust. Bur. Miner. Resour., Geol. Geophys., Bull.* 141, 225 p.
- Fitzgerald, A.C., Graham, R.J., Gross, W.H. and Rucklidge, J.C.
1967a: The application of gold-silver ratios to a fault displacement problem, Bourlamaque, Quebec; *Can. Inst. Min. Metall. Prog.*, Ottawa, p. 11 (abstr.).
1967b: The application and significance of gold-silver ratios at Val D'Or, Quebec; *Econ. Geol.*, v. 62, p. 502-516.
- Flanagan, F.J.
1969: U.S. Geological Survey standards—II. First compilation of data for the new U.S.G.S. rocks; *Geochim. Cosmochim. Acta*, v. 33, no. 1, p. 81-120.
1973: 1972 values for international geochemical reference samples; *Geochim. Cosmochim. Acta*, v. 37, no. 5, p. 1189-1200.
- Flawn, P.T.
1966: Mineral resources; Rand McNally & Co., Chicago, 406 p.
- Fleischer, E.B. and Laszlo, A.
1969: Synthesis of a gold porphyrin; *Inorg. Nucl. Chem. Lett.* v. 5, no. 5, p. 373-376.
- Fleischer, M.
1969: U.S. Geological Survey standards—I. Additional data on rocks G-1 and W-1, 1965-1967; *Geochim. Cosmochim. Acta*, v. 33, no. 1, p. 65-79.
- Fleischer, M. and Harder, J.O.
1955: Geochemistry of germanium; U.S. At. Energy Comm., TID-5212, p. 93-105.
- Fleischer, R. and Routhier, P.
1973: The "Consanguineous" origin of a tourmaline-bearing gold deposit: Passagem de Mariana (Brazil); *Econ. Geol.*, v. 68, p. 11-22.
1974: The "Consanguineous" origin of a tourmaline-bearing gold deposit: Passagem de Mariana (Brazil)—a reply; *Econ. Geol.*, v. 69, p. 419-422.
- Flores, T.
1920: Estudio geologico-minero de los distritos de El Oro y Tlalpujahuá; *Inst. Geol. Mex., Bol.* 37, 85 p.
- Foley, L.L.
1960: Gold and silver in manganese ore, Polk Co., Arkansas; *Econ. Geol.*, v. 55, p. 1757.
- Folinsbee, R.E.
1942: Zone facies of metamorphism in relation to the ore deposits of the Yellowknife-Beaulieu region, Northwest Territories; unpubl. Ph.D. thesis, Univ. Minnesota, Minneapolis, Minn.
1971: Precambrian metallogenic epochs—atmospheric or centrospheric? *Int. Geochem. Congr., Moscow, Abstr.* II, p. 962-963.
- Folinsbee, R.E., Kirkland, K., Nikolaichuk, A. and Smejkal, V.
1972: Chinkuashih—a gold-pyrite-enargite-barite hydrothermal deposit in Taiwan; *in* Studies in mineralogy and Precambrian geology, Doe, B.R. and Smith, D.K., eds., *Geol. Soc. Am., Mem.* 135, p. 323-326.
- Fomin, D.P., Glotov, A.M. and Gromova, E.I.
1973: Gold mineralization of Cimmerian age in western Uzbekistan; *Akad. Nauk SSSR, Dokl.*, v. 213, no. 1, p. 176-177. (*Chem. Abstr.*, v. 80, 110816c.)
- Fominykh, V.G. and Znamenskii, N.D.
1974: Regularities of distribution of platinum group metals and gold in magnetites from Uralian granitoids of different genetic types; *Akad. Nauk SSSR, Dokl.*, v. 217, p. 1185-1186.
- Forbes, R.J.
1964: Gold; *in* Studies in ancient technology, Chapter 5, p. 151-192, E.J. Brill, Leiden, Holland.
- Ford, W.E.
1958: A textbook of mineralogy, 4th ed.; John Wiley & Sons, Inc., New York, 851 p.
- Forgeron, F.D.
1971: Soil geochemistry in the Canadian Shield; *Can. Inst. Min. Metall. Bull.*, v. 64, no. 715, p. 37-42.
- Forrester, J.D.
1946: Principles of field and mining geology; John Wiley & Sons, Inc., New York, 647 p.
- Forster, I.F.
1968: Paragenetical ore mineralogy of the Loolekop-Phalaborwa carbonate complex, eastern Transvaal; *Geol. Soc. S. Afr., Trans.*, v. 61, p. 359-363.
- Forsythe, D.L.
1968: Calaverite at Vatukoula, Fiji; *Econ. Geol.*, v. 63, p. 694-695.
1971: Vertical zoning of gold-silver tellurides in the Emperor gold mine, Fiji; *Australas. Inst. Min. Metall., Proc.*, no. 240, p. 25-31.
- Fortier, Y.O.
1946: Preliminary Map, Yellowknife-Beaulieu region, Northwest Territories, *Geol. Surv. Can., Pap.* 46-23.
1947: Preliminary map, Ross Lake, Northwest Territories; *Geol. Surv. Can., Pap.* 47-16.
- Fortin, N.
1969: Etude géostatistique de la minéralisation aurifère à la mine Sullivan, Comté d'Abitibi-Est, Province de Québec; unpubl. M.Sc. thesis, Ecole Polytechnique, Montreal, 94 p. and appendix.
- Forward, F.A. and Mackiw, V.N.
1955: Chemistry of the ammonia pressure process for leaching Ni, Cu, and Co from Sherritt Gordon sulphide concentrates; *J. Metals*, no. 3, p. 457-463.
- Foshag, W.F. and Fries, C.
1942: Tin deposits of the Republic of Mexico; *U.S. Geol. Surv., Bull.* 935-C.
- Foss, G.V.
1966a: Gold; *in* Metals in sedimentary rock series: precious metals; radio-active, trace and rare earth elements; L.V. Pustovalov, ed., "Nauka", Moscow, p. 2-32.
1966b: Geochemistry and minerals of gold; *Metal. Osad, Tolshchakh, Blagorod. Metal. Radioaktiv. Rasseyan. Redkozemel. Elem. Akad. Nauk SSSR*, p. 3-50.
- Foster, R.L.
1968: Potential for lode deposits in the Livengood gold placer district, east-central Alaska; *U.S. Geol. Surv., Circ.* 590, 18 p.
1971a: Cation exchange capacity and metal deposition: a suggestion; *Econ. Geol.*, v. 66, p. 200-201 (Disc.).
1971b: Gold deposits at Slate Creek, northern Nye County, Nevada; *Econ. Geol.*, v. 66, p. 965-966.
- Foster, R.P.
1977a: Solubility of scheelite in hydrothermal chloride solutions; *Chem. Geol.*, v. 20, p. 27-43.
1977b: The geochemistry of gold with reference to Archean mineralization in Rhodesia; *Univ. Rhodesia Inst. Min. Res. Rep.* 25, 36 p.
- Fouché, K.E. and Smales, A.A.
1966: The distribution of gold and rhenium in iron meteorites; *Chem. Geol.*, v. 1, no. 4, p. 329-339.
1967: The distribution of trace elements in chondritic meteorites. 2. Antimony, arsenic, gold, palladium and rhenium; *Chem. Geol.*, v. 2, no. 2, p. 105-134.
- Frankel, J.J.
1940: Notes on some of the minerals in the Black Reef Series; *Geol. Soc. S. Afr., Trans.*, v. 43, p. 1-8.

- Fraser, C.
1910: The geology of the Thames subdivision, Hauraki, Auckland; N.Z. Geol. Surv., Bull. 10 (New Series), 136 p.
- Fraser, C. and Adams, J.H.
1907: The geology of the Coromandel Subdivision, Hauraki, Auckland; N.Z. Geol. Surv., Bull. 4, 154 p.
- Fraser, J.A.
1954: Gold dish and kava bowl; J.M. Dent & Sons Ltd., London, 262 p.
- Frederickson, A.F., Lehnertz, C.A. and Kellogg, H.E.
1971: Mobility, flexibility highlight a mass spectrometer-computer technique for regional exploration; Eng. Min. J. v. 172, no. 6, p. 116-118.
- Freise, F.W.
1931: The transportation of gold by organic underground solutions; Econ. Geol., v. 26, p. 421-431.
- Frens, G.
1973: Controlled nucleation for the regulation of the particle size in monodisperse gold suspensions; Nature, v. 241, no. 105, p. 20-22.
- Fricker, A.G.
1976: Placer gold—measurement and recovery; Symp. on Sampling Practices in the Mineral Industries; Australas. Inst. Min. Metall., Parkville, Australia, p. 115-127.
- Friedensburg, F.
1953: Die Metallischen Rohstoffe, Heft 3, Gold; Ferdinand Enke Verlag Stuttgart, 234 p.
- Friedrich, G.
1960: Petrographische und erzmikroskopische Beobachtungen an der Goldlagerstätte Rodalquilar Prov. Almeria/ Spanien; Neues Jahrb. Mineral., Abh., 94, p. 208-227.
- Friedrich, K.
1906: Untersuchungen über den Goldgehalt von Gebirgsproben und solen deutscher Salzlagerstätten; Metallurgie, v. 3, no. 2, p. 627-630.
- Friend, J.N. and Allchin, J.P.
1939: Colour of celestine; Nature, v. 144, p. 633.
1940: Blue rock salt; Nature, v. 145, p. 266-267.
- Fries, C. and Schmitter, E.
1948: Tin-bearing placers near Guadalcázar, State of San Luis Potosí, Mexico, U.S. Geol. Surv., Bull. 960-D, 149 p.
- Fripp, R.E.P.
1976: Stratabound gold deposits in Archean banded iron-formation, Rhodesia; Econ. Geol., v. 71, p. 58-75.
- Fritze, K. and Robertson, R.
1969: Precision in the neutron activation analysis for gold in standard rocks G-1 and W-1; in Modern trends in activation analysis; Nat. Bur. Stand., Spec. Publ. 312, p. 1279-1283.
- Frohberg, M.H.
1936: The gold (ore) deposits of the Michipicoten area; Ont. Dep. Mines Annu. Rep. 1935, pt. 8, p. 39-83.
- Frondel, C.
1938: Stability of colloidal gold under hydrothermal conditions; Econ. Geol., v. 33, no. 1, p. 1-20.
1962: The system of mineralogy, 7th ed., v. 3, Silica minerals, John Wiley & Sons, Inc., New York, 334 p.
- Frondel, C. and Ito, J.
1957a: Crystal chemistry and geochemistry of scandium; Geol. Assoc. Can., Prog., p. 27 (abstr.).
1957b: Geochemistry of germanium in the oxidized zone of the Tsumeb mine, South-West Africa; Am. Mineral., v. 42, p. 743-753.
1967: Crystal chemistry and geochemistry of scandium; Can. Mineral., v. 9, pt. 2, p. 289.
- Fuchs, E. and De Launay, L.
1893: Traité des gîtes minéraux et métallifères, Tomes 1 et 2, Paris.
- Fuchs, W.
1935: Rare elements in German brown-coal ashes; Ind. Eng. Chem., v. 27, p. 1099-1100.
- Fujii, T. and Haramura, H.
1976: Gold chloride complex in silica solution at low temperature and pressure; 25th Int. Geol. Congr., Sydney, Australia, Abstr., v. 2, p. 563-564.
- Fukai, R. and Meinke, W.W.
1962: Activation analyses of vanadium, arsenic, molybdenum, tungsten, rhenium, and gold in marine organisms; Limnol. Oceanogr., v. 7, p. 186-200.
- Full, R.P. and Grantham, R.M.
1968: Ore deposits of the Republic mining district, Ferry County, Washington; in Ore deposits of the United States, J.D. Ridge, ed., Publ. Am. Inst. Min. Metall. Pet. Eng. Inc., New York, p. 1481-1494.
- Fulton, C.H.
1916: The ores of copper, lead, gold and silver; U.S. Bur. Mines, Tech. Pap. 143, 45 p.
- Fulton, C.H. and Sharwood, W.J.
1929: A manual of fire assaying, 3rd ed.; McGraw-Hill Book Co., Inc., New York, 268 p.
- Furman, N.H., ed.
1962: Standard methods of chemical analysis, 6th ed.; D. Van Nostrand Co., Inc., Princeton, New Jersey, 1401 p.
- Furnival, G.M.
1935: The large quartz veins of Great Bear Lake, Canada; Econ. Geol., v. 30, p. 843-859.
- Furse, G.D.
1948: McIntyre mine; in Structural geology of Canadian ore deposits, v. 1; Can. Inst. Min. Metall., Montreal, p. 482-496.
- Fyfe, W.S. and Henley, R.W.
1973: Some thoughts on chemical transport processes, with particular reference to gold; Mineral. Sci. Eng., v. 5, no. 4, p. 295-303.
- Fyles, J.T., Harakal, J.E. and White, W.H.
1973: The age of sulfide mineralization at Rossland, British Columbia; Econ. Geol., v. 68, p. 23-33.
- Gaarden, J.
1940: Gold nuggets of the world; Gaarden Publishing Co., Hollywood, Calif., 149 p.
- Gabrielse, H., Souther, J.G. and Roots, E.F.
1962: Dease Lake, British Columbia; Geol. Surv. Can., Map 21-1962.
- Gadd, N.R.
1964: Surficial geology, Beauceville map-area, Quebec; Geol. Surv. Can., Pap. 64-12, 3 p.
- Gage, M.
1948: The geology of the Reef ton quartz lodes; N.Z., Geol. Surv., Bull. 42, 69 p.
- Gair, J.E.
1962: Geology and ore deposits of the Nova Lima and Rio Acima quadrangles, Minas Gerais, Brazil; U.S. Geol. Surv., Prof. Pap. 341-A, 67 p.
- Galakhov, I.N., Mushkin, I.V. and Chernyavskii, Yu. A.
1974: Gold mineralization of western Uzbekistan; Akad. Nauk SSSR, Dokl., v. 217, no. 1, p. 169-171. (Chem. Abstr., v. 82, 19497g.)
- Galkiewicz, T.
1972: Metallogeny in Bulgaria; Rudy Metale Niezelaz, v. 17, no. 12, p. 590-591. (Chem. Abstr., v. 79, 7967k.)
- Galkin, M.A.
1967: Mineral associations in mercury deposits of north-eastern Yakutia; Akad. Nauk SSSR, Dokl., v. 169, no. 2, p. 438-440. Also Acad. Sci. USSR, Dokl., Earth Sci. Sec., v. 169, nos. 1-6, p. 165-167.
- Gallagher, D.
1940: Albite and gold; Econ. Geol. v. 35, p. 698-736.
1941: A microscopic study of some ores of the Lupa goldfield, Tanganyika Territory, East Africa; Econ. Geol., v. 36, p. 306-323.
- Galopin, R. and Henry, N.F.M.
1972: Microscopic study of opaque minerals; W. Heffer and Sons Ltd., Cambridge, 322 p.

- Gamaleev, I.E., Khamrabaev, I. Kh., Muninov, Sh. A. and Baranov, V.V.
1967: Picrite porphyrites from southern Fergana and northern Nuratau; *Uzb. Geol. Zh.*, v. 11, no. 1, p. 3-9. (Chem. Abstr., v. 68, 89038t.)
- Gamyanin, G.N.
1974: Types of gold ore deposits of eastern Yakutia; *Vop. Rudonos. Yakutii*, G.N. Gamyanin, ed., p. 5-34. (Chem. Abstr., v. 84, 76923h.)
- Gamyanin, G.N. and Solov'ev, V.I.
1969: Eastern Yakutia gold-ore formations; *Str. Zemnoi Kory Yakutii Zakonomer. Razmeshcheniya Polez. Iskop. Yu. P. Ivnsen, ed., Izd. "Nauk" Moscow, U.S.S.R.*, p. 256-274. (Chem. Abstr., v. 73, 27539b.)
- Ganapathy, R., Keays, R.R. and Anders, E.
1970: Apollo 12 Lunar samples: trace element analysis of a core and the unconformity of the regolith; *Science*, v. 170, no. 3957, p. 533-535.
- Ganapathy, R., Keays, R., Laul, J.C. and Anders, E.
1970: Trace elements in Apollo 11 lunar rocks: implications for meteorite influx and origin of moon; *Proc. Apollo 11 Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 1*, v. 2, p. 1117-1142.
- Ganapathy, R., Morgan, J.W., Higuchi, H. and Anders, E.
1974: Meteoric and volatile elements in Apollo 16 rocks and in separated phases from 14306; *Proc. 5th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 5*, v. 2, p. 1659-1683.
- Ganapathy, R., Morgan, J.W., Krähenbühl, U. and Anders, E.
1973: Ancient meteoric components in lunar highland rocks: clues from trace elements in Apollo 15 and 16 samples; *Proc. 4th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 4*, v. 2, p. 1239-1261.
- Ganchev, P. and Ninov, I.
1971: Relation between the gold and silver contents in some veins of the Govezhda deposit and its application in practice; *Rudodobiv. iss.* 6, p. 1-4. (Chem. Abstr., v. 80, 72759d.)
- Ganiev, A.G., Sil'vanovich, Y.A. and Rakhimov, Kh.R.
1971: Neutron-activation determination of precious metals in some basic rocks and minerals connected with them; *Neitron. Aktiv. Anal.* p. 139-145. (Chem. Abstr., v. 76, 148471u.)
- Gannett, R.W.
1919: Experiments relating to the enrichment of tungsten ores; *Econ. Geol.*, v. 14, p. 68-78.
- Gapeeva, M.M.
1973: Gold ore manifestations in metamorphic rock masses of the northwestern part of the Vitim-Olekma Interfluve; *Metamorf. Komplek. Vost. SSSR*, A.M. Smirnov, ed., p. 226-233. (Chem. Abstr., v. 82, 61983n.)
- Gapon, A.E.
1970: Gold concentration in the black clays of the Dogaldinsky suite (Vitim-Patom Highland); *Acad. Sci. USSR, Siberian Div., Inst. Geochem. Yearb. 1969*, L.V. Tauson, ed., Irkutsk, p. 239-240.
- Gapon, A.E. and Voloskova, S.E.
1976: The relationship of gold with organic matter in Precambrian sedimentary rocks (Vitim-Patom Highland); *Ezheg. Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR*, 1974, p. 208-211.
- Gapontsev, G.P.
1971: Determination of the productive depth of the auriferous veins of the Balei-type according to geochemical data; *Geol. Rud. Mestorozhd.*, v. 13, no. 1, p. 106-110. Also summary in *Econ. Geol.*, v. 63, p. 1150-1160.
- Gapontsev, G.P. and Polikarpochkin, V.V.
1969: Distribution of elements accompanying gold in the veins of the Baleisk ore field on the basis of multiple analyses; *Ezheg. Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR*, 1968, p. 217-221. (Chem. Abstr., v. 73, 37346a.)
- Garces, H.
1942: Solubilidad del oro en acides humicos; *Anal. Prim. Congr. Panamericano Ing. Min. Geol.*, v. 3, p. 1135-1138.
- Gardiner, A.H.
1914: The map of the gold mines in a Ramesside papyrus at Turin; *Cairo Sci. J.* v. 8, p. 42-46.
- Gardner, E.D.
1950: Guide to prospecting for lode gold; *U.S. Bur. Mines, Inform. Circ.* 7535 (pt. 1), p. 1-12.
- Gardner, E.D. and Allsman, P.T.
1938: Power shovel and dragline placer mining; *U.S. Bur. Mines, Inform. Circ.* 7013, 68 p.
- Gardner, E.D. and Johnson, C.H.
1934: Placer mining in the western United States; Pt. I, General information, hand shoveling, and ground sluicing; *U.S. Bur. Mines, Inform. Circ.* 6786, 74 p.: Pt. II, Hydraulic mining, treatment of placer concentrates, and marketing of gold; *U.S. Bur. Mines, Inform. Circ.* 6787, 89 p.: Pt. III, Dredging and other forms of mechanical handling of gravel, and drift mining; *U.S. Bur. Mines, Inform. Circ.* 6788, 82 p.
- Garlick, W.G.
1953: Reflections on prospecting and ore genesis in northern Rhodesia; *Inst. Min. Metall., Trans. (London)*, v. 63, no. 563, p. 9-20.
- Garrels, R.M. and Christ, C.L.
1965: Solutions, minerals, and equilibria; *Harper & Row, Publishers*, New York, 450 p.
- Garrett, R.G.
1974: Mercury in granitoid rocks of the Yukon and its relation to gold-tungsten mineralization; *J. Geochem. Explor.*, v. 3, p. 277-289.
- Garrett, R.G. and Nichol, I.
1967: Regional geochemical reconnaissance in eastern Sierra Leone; *Inst. Min. Metall. Trans., Sec. B*, v. 76, p. B97-B112; discussion, v. 77, p. B78-B79, 1968; authors' reply, v. 78, p. B54-B55.
- Gather, B. and Blacknik, R.
1974: Das System Gold-Wismut-Tellur; *Z. Metallk.*, Bd. 65, p. 653-656.
- Gavrikov, S.I.
1962: Occurrence of gold in sedimentary rocks in the basin of the Elga; *Geol. Rud. Mestorozhd.*, no. 2, p. 114-115.
- Gavrikova, S.N., Shevyrev, I.A., Alkin, V.S. and Ivanov, V.N.
1973: Elements of vertical zoning in beresites and ores of the Itakinsk ore field (eastern Transbaikalia); *Geol. Rud. Mestorozhd.*, v. 15, no. 3, p. 117-123.
- Gavrilenko, B.V., Belolipetski, A.P., Bolotov, V.I. and Vorobets, A.A.
1974: Geochemistry of gold in the metamorphic complex of Kolmozero-Voronye (Kola Peninsula); *Geokhim.*, v. 1974, no. 1, p. 132-138.
- Gavrilenko, B.V., Goryainov, P.M. and Evdokimov, B.N.
1976: Distribution of gold in geological formations of the ferruginous-siliceous deposits of the central part of the Kola Peninsula; *Dokl. Acad. Nauk. USSR*, v. 231, p. 159-161. (Chem. Abstr., v. 86, 109330j.)
- Gavrilov, A.M.
1971: Syngensis with sulfide nature of finely dispersed gold in the Bakyrchik gold ore deposit (eastern Kazakhstan); *Tr. Tsent. Nauch. Issled. Gornorazved. Inst.*, no. 96 (pt. 1), p. 159-166. (Chem. Abstr., v. 77, 91152e.)
- Gavrilov, A.M., Alysheva, E.I. and Shevchenko, V.N.
1974: Nature of submicroscopic gold in arsenopyrite of a gold-arsenic deposit; *Tr. Tsent. Nauch. Issled. Geol. Inst. Tsvet.* v. 112, p. 47-52. (Chem. Abstr., v. 83, 63656c.)
- Gay, N.C.
1963: A review of the geochemical characteristics of gold in ore deposits; *Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ.* 12, 70 p.
- 1964: The composition of gold from the Barberton Mountain Land; *Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ.* 19, 53 p.

- Gayev, I.A. and Gayeva, N.M.
1971: Gold in Precambrian rocks of the middle Dnieper region; Acad. Sci. USSR, Dokl., Earth Sci. Sec., v. 198, p. 127-128.
- Gebler, I.V. and Stramkovskaya, K.K.
1957: On the absorption by lignite of heavy metals from weak solutions of their salts; Izv. Filiala Akad. Nauk SSSR, no. 12, p. 78-82.
- Gedansky, L.N. and Hepler, L.G.
1969: Thermochemistry of gold and its compounds; Engelhard Ind. Tech. Bull., v. 10, no. 1, p. 5-9.
- Geffroy, J.
1963: La brannerite du filon aurifère de La Gardette (Isère) et sa signification métallogénique; Bull. Soc. Fr., Minéral. Cristallogr., t. 86, p. 129-132.
- Geier, B.
1933: Die Goldlagerstätte, El Chivato, bei Talca (Chile); Z. Prakt. Geol., v. 41, p. 61-69.
- Gelman, M.L.
1976: On the role of regional metamorphism in gold mineralization of the South-East of the USSR; Acad. Sci. USSR Dokl., v. 230, p. 1406-1409.
- Generalov, P.P., Kostyuk, B.F., Gavriluk, I.V. and Zasyad'ko, G.N.
1972: Geological and geomorphological premises of the placer gold content in the Severo-Sosvinsk and Lyapinsk Urals; Tr., Zapad. Sib. Nauch. Issled. Geologorazved. Neft. Inst., no. 52, p. 6-24. (Chem. Abstr., v. 78, 113925j.)
- Geological Survey of South Africa
1959: The mineral resources of the Union of South Africa, 4th ed.; Gov. Printer, Pretoria, 614 p.
- Gergelchev, V.N.
1974: Concentric zoning in the Madzharovo; Spis. Bulg. Geol. Druzh., v. 35, no. 2, p. 218-223. (Chem Abstr., v. 82, 114185n.)
- Gesner, A.
1867: Gold and its separation from other minerals; N.S. Inst. Nat. Sci., v. 1, p. 54-60.
- Gevers, T.W.
1961: Outline of the geology of Southern Africa; Trans. 7th. Commonw. Min. Metall. Congr., Pap. Disc., v. 1, S. Afr. Inst. Min. Metall., p. 25-37.
- Ghitulescu, T.P. and Socolescu, M.
1941: Étude géologique et minière des Monts Métallifères; An. Inst. Geol. Rom., v. 21, p. 185-464.
- Ghosh, D.B., Sastry, B.B.K., Rao, A.J. and Rahim, A.A.
1970: Ore environment and ore genesis in Ramagiri Gold Field, Andhra Pradesh, India; Econ. Geol., v. 65, p. 801-814.
- Gibbins, W.
1970: Geology of the Falcon Lake Stock, southeastern Manitoba; Geol. Assoc. Can., Annu. Meet., Winnipeg (abstr.), p. 26.
- Gibson, F.H. and Selvig, W.A.
1944: Rare and uncommon chemical elements in coal; U.S. Bur. Mines, Tech. Pap. 669, 23 p.
- Gibson, J.C. and Stockwell, C.H.
1948: San Antonio mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 315-321.
- Gibson, T.M.
1911: Pay-streaks at Nome; Mining and Scientific Press, v. 102, p. 424-427, 462-467.
- Gilbert, G.
1924: The relation of hardness to the sequence of the ore minerals; Econ. Geol., v. 19, p. 668-673.
1948: Rossland Camp; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 189-196.
- Gilbert, R.D.
1940: The gold deposits of the Paracale-Mambulao district; Eng. Min. J., v. 141, no. 6, p. 45-50.
- Gill, J.E.
1948: Wasa Lake mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 730-734.
- Gill, J.E. and Byers, A.R.
1948: Surf Inlet and Pugsley mines; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 99-104.
- Gillett, T.E.
1964: The mode of origin of Banket orebodies, discussion; 1965: Inst. Min. Metall. Trans., v. 74, p. 571.
- Gillum, D.E. and Ehmann, W.D.
1971: Noble metal determination in meteorites; Radiochim. Acta, v. 16, p. 123-128.
- Ginzburg, A.I. *et al.*
1959: Minerals of germanium and its deposits; in Geology of the deposits of rare metals, no. 5, Gosgeoltekhizdat, Moscow, 112 p.
- Ginzburg, A.I., Zhuravleva, L.N., Ivanov, I.B. and Shcherbina, V.V.
1959: Rare elements and their deposits; in Geology of the deposits of rare metals, no. 3, Gosgeoltekhizdat, Moscow, 125 p.
- Ginzburg, I.I.
1960: Principles of geochemical prospecting; Pergamon Press, Oxford, 311 p.
- Ginzburg, V.L. and Rogover, G.B.
1961: Regularities in the distribution of nonferrous and precious metals in principal ore minerals and silicates of the Noril'sk deposits; Sov. Geol., no. 3, p. 48-60. (Int. Geol. Rev., v. 3, no. 10, p. 917-926.)
- Giuscă, D., Borcos, M., Lang, B. and Stan, N.
1973: Neogene volcanism and metallogenesis in the Gutăi Mountains; Symp. Volcanism and Metallogenesis, Bucharest, Guidebook no. 11, 50 p., published by Geol. Inst. Bucharest.
- Giuscă, D., Cioflica, G. and Udubasa, G.G.
1968: Metallogenesis associated with Neogene volcanism of the Rumanian Carpathians; 23rd Int. Geol. Congr., Prague, Abstr., p. 190-191.
- Gladkov, N.A.
1972: Relation of Salaira gold-bearing placers to natural electrical and geochemical fields; Geol. Geofiz., no. 3, p. 86-91. (Chem. Abstr., v. 77, 91156j.)
- Glasson, M.J.
1975: Gold distribution and foliation development in Lower Proterozoic rocks in central Victoria: bearing on gold mineralization; unpubl. M.Sc. thesis, Univ. Melbourne, Melbourne, Austr., 164 p.
- Gledhill, T.L.
1927a: Goudreau-Lochalsh gold area, District of Algoma; Ont. Dep. Mines, Annu. Rep., v. 36, pt. 2, p. 50-86.
1927b: Michipicoten gold area, District of Algoma; Ont. Dep. Mines Annu. Rep., v. 36, pt. 2, p. 1-49.
- Gleeson, C.F.
1970: Heavy mineral studies in the Klondike area, Yukon Territory; Geol. Surv., Can., Bull. 173, 63 p.
- Gleeson, C.F. *et al.*
1965: Heavy metal content of stream and spring waters and stream and spring sediments, Mayo Lake, Keno Hill, Mt. Haldane, Rackla River, Scougale Creek, McQuesten Lake, and Dublin Gulch, Yukon Territory; Geol. Surv., Can., Maps 18-1964 to 31-1964 inclusive.
1966-1968: Lead, silver, zinc, arsenic, antimony, copper, molybdenum, tungsten and tin, nickel, cobalt, manganese, and boron content of stream and spring sediments of Keno Hill area, Yukon Territory; Geol. Surv., Can., Maps, Prelim. Ser., nos. 45-1965 (lead) to 56-1965 (boron) inclusive.
- Gleeson, C.F. and Cormier, R.
1971: Evaluation by geochemistry of geophysical anomalies and geological targets using overburden sampling at depth; in Geochemical exploration, R.W. Boyle and J.I. McGerrigle, eds.; Can. Inst. Min. Metall., Spec. Vol. 11, p. 159-165.

- Gleizer, L.M.
1970: Distribution of gold in the Lower Paleozoic formations of the Pskemsk Ridge (Tien-Shan); *Zap. Uzb. Otd. Vses. Mineral. Obschest.*, no. 22, p. 206–207. (Chem. Abstr., v. 74, 114513c.)
- Globa, V.A. and Narseev, V.A.
1973: Evolutionary series of gold mineralization of volcanic belts in Kazakhstan; *Evol. Vulkanizma Istor. Zemli, Mater. Vses. Paleovulkan*, p. 284–285. (Chem. Abstr., v. 84, 20363h.)
- Glukhov, R.G.
1971: Akkarginsk gold deposit; *Sov. Geol.*, no. 9, p. 130–137.
1974: Near ore metasomatites of gold ore deposits; *Akad. Nauk Kaz. SSR, Izv., Ser. Geol.* v. 31, no. 1, p. 74–81. (Chem. Abstr., v. 81, 80605m.)
- Glushchenko, V.M., Talipov, R.M., Nishanov, P.N., Lunin, A.A., Samigdzhanova, M.A. and Arilova, Kh.A.
1973: Comparative data on the determination of the trace content of gold, by different methods in the ash of plants and water; *Uzb. Geol. Zh.*, v. 17, no. 4, p. 77–79. (Chem. Abstr., v. 80, 66425a.)
- Gmelin
1950– Gmelins Handbuch der anorganischen Chemie, Systemnummer 62, Gold, pt. 1 and 2, Weinheim/Bergstrasse, Verlag Chemie, GMBH, 406 p.
1954: Gmelin, L.V. and Konkina, O.M.
1970: Gold content in the Norilsk-type differentiated intrusions; *Tr. Tsent. Nauch. Issled. Gornorazved. Inst. Tsvet., Redk. Blagorod Metal.*, no. 87, p. 42–57. (Chem. Abstr., v. 74, 56300t.)
- Goldberg, E.D.
1957: Biogeochemistry of trace metals; *in* Treatise on marine ecology and paleoecology, v. 1, J.W. Hedgpeth, ed., Geol. Soc. Am., Mem. 67, p. 345–357.
- Goldberg, E., Uchiyama, A. and Brown, H.
1951: The distribution of nickel, cobalt, gallium, palladium, and gold in iron meteorites; *Geochim. Cosmochim. Acta*, v. 2, no. 1, p. 1–25.
- Goldberg, I.
1964: Notes on the relationship between gold deposits and structure in southern Rhodesia; *in* The geology of some ore deposits in southern Africa, v. 2, S.H. Haughton, ed., Geol. Soc. S. Afr., Johannesburg, p. 9–13.
- Goldschmidt, V.M.
1933a: Über die Anreicherung seltener Elemente in Steinkohlen; *Gesell. Wiss. Göttingen, Nachr., Math. Phys. Kl.*, no. 4, p. 371–386.
1933b: Grundlagen der quantitativen Geochemie; *Fortsch. Mineral. Kristallogr. Petrog.*, v. 17, p. 112–156.
1934: Drei Vorträge über Geochemie; *Geol. Foeren. Stockh. Foerh.*, v. 56, p. 385–427.
1935: Rare elements in coal ashes; *Ind. Eng. Chem.*, v. 27, p. 1100–1102.
1937: Geochemische Verteilungsgesetze der Elemente. IX. Die Mengenverhältnisse der Elemente und der Atom-Arten; *Nor. Vidensk. Oslo, Skr., Mat. Natur. Kl.*, no. 4, 148 p.
1954: *Geochemistry*; Clarendon Press, Oxford, 730 p.
- Goldschmidt, V.M., Krejci-Graf, K. and Witte, H.
1948: Trace metals in sediments; *Nachr. Akad. Wiss. Göttingen, Math. Phys. Kl., Math. Physik. Chem., Abt.* 35–52. (Chem. Abstr., v. 47, 11095c.)
- Goldschmidt, V.M. and Peters, Cl.
1932: Zur Geochemie der Edelmetalle; *Gesell. Wiss. Göttingen, Nachr., Math. Phys. Kl.*, no. 4, p. 377–401.
1933: Über die Anreicherung seltener Elemente in Steinkohlen; *Gesell. Wiss. Göttingen Nachr., Math. Phys. Kl.*, no. 4, p. 371–386.
- Goleva, G.A.
1968: Hydrogeochemical prospecting for hidden ore deposits; “Nedra” Publ. House, Moscow, U.S.S.R., 291 p. (in Russian).
1970: Hydrogeochemistry of the gold deposits of the Balei district; *Int. Geol. Rev.*, v. 12, no. 2, p. 195–203.
- Goleva, G.A. and Chitaeva, N.A.
1973: The geochemistry of cadmium in the zone of hypergenesis of ore deposits; *Litol. Polez. Iskop.*, no. 3, p. 92–101.
- Goleva, G.A., Krivenko, V.A. and Gutz’, Z.G.
1970a: Geochemical regularities of the distribution and migration forms of gold in natural waters; *Geochem. Int.*, no. 6, p. 744–757.
1970b: Geochemical trends in the occurrence and migration forms of gold in natural waters; *Geochem. Int.*, v. 7, no. 3, p. 518–529.
- Goleva, G.A. and Vorob’yeva, I.N.
1967: The migration of germanium in the ground waters of ore deposits; *Geochem. Int.*, v. 4, p. 809–817.
- Goloubinoff, V.
1937: Sur la prospection géochimique différentielle des gîtes minéraux; *Comptes rendus, Acad. Sci. Paris*, t. 204, p. 1075–1077.
- Golovnya, S.V.
1974: Peculiarities of gold distribution in eclogites of the Salnyne Tundras (Kola peninsula); *Geokhim.*, no. 4, p. 638–640. (Geochem. Int. v. 11, no. 2, p. 459–461.)
- Goncharenko, A.I.
1970: Auriferous listwanites as a new type of mineralization in the northern part of the Kuznetsk Alatau; *Izv. Tomsk. Politekh. Inst.*, v. 239, p. 110–114. (Chem. Abstr., v. 75, 111707d.)
- Goncharov, V.I.
1973: Chemical composition of hydrothermal solutions of gold-silver deposits; *Tr. Sev. Vost. Kompleksn. Inst., Dal’nevost. Tsent., Akad. Nauk SSSR*, no. 55, p. 174–184. (Chem. Abstr., v. 84, 7596s.)
- Goncharov, V.I., Naiborodin, V.I. and Sidorov, A.A.
1972: Temperature characteristics in the formation of sub-volcanic gold-silver deposits of the northeastern U.S.S.R.; *Rud. Sreda Vklyuch. Miner., V.I. Smirnov, ed., “Nauka” Moscow*, p. 124–131. (Chem. Abstr., v. 78, 149674r.)
- Goncharov, V.I. and Shugurova, N.A.
1973: The composition of the volatile constituents of hydrothermal solutions of near-surface type (exemplified by the gold-silver deposits of the northeast U.S.S.R.); *Geochemistry*, no. 10, p. 1583–1585.
- Goni, J., Guillemin, C. and Sarcia, C.
1967: Géochimie de l’or exogène. Etude expérimentale de la formation des dispersions colloïdales d’or et de leur stabilité; *Mineral. Deposita (Berl.)*, v. 1, p. 259–268.
- Good, R.S., Fordham, O.M. and Halladay, C.R.
1973: Geochemical exploration for gold in the central Piedmont of Virginia (abstr.); *Min. Eng.* v. 25, no. 8, p. 31–32.
1977: Geochemical reconnaissance for gold in the Caledonia and Pendleton quadrangles in the Piedmont of central Virginia; *Virginia Miner.*, v. 23, no. 2, p. 13–22.
- Goodchild, W.H.
1918: The evolution of ore deposits from igneous magmas; *Min. Mag.*, v. 19, no. 4, p. 188–199.
- Goodell, P.C. and Petersen, U.
1974: Julcani mining district, Peru: a study of metal ratios; *Econ. Geol.* v. 69, p. 347–361.
- Goodwin, A.M.
1965a: Mineralized volcanic complexes in the Porcupine-Kirkland Lake-Noranda region, Canada; *Econ. Geol.*, v. 60, p. 955–971.
1965b: Volcanism and gold deposition in the Birch-Uchi Lakes area; *Can. Inst. Min. Metall., Bull.*, v. 58, no. 635, p. 304–314.
- Goossens, P.J.
1972: Metallogeny in Ecuadorian Andes; *Econ. Geol.*, v. 67, p. 458–468.
- Gorbunov, E.Z.
1959: On the distances travelled by alluvial gold from its native sources; *Sov. Geol.*, no. 6, p. 98–105.

- Gordon, J.B.
 1977a: Gold Deposits of Ontario, northwestern sheet, District of Kenora (Patricia portion); Ont. Geol. Surv. Prelim. Map P. 1226, Mineral Deposits Ser., scale 1:1,013,760 or 1 in.: 16 mi. Compilation 1974, 1975, 1976.
 1977b: Gold Deposits of Ontario, east central sheet, Districts of Thunder Bay, Algoma, Cochrane, Sudbury, Timiskaming and Nipissing; Ont. Geol. Surv. Prelim. Map P. 1228, Mineral Deposits Ser., scale 1:1,013,760 or 1 in.: 16 mi. Compilation 1974, 1975, 1976.
 1977c: Gold Deposits of Ontario, west central sheet, Districts of Kenora (Patricia Portion), Thunder Bay, Algoma and Cochrane; Ont. Geol. Surv. Prelim. Map P. 1227, Mineral Deposits Ser., scale 1:1,013,760 or 1 in.: 16 mi. Compilation 1974, 1975, 1976.
 1977d: Gold Deposits of Ontario, southern sheet, southern Ontario and District of Nipissing; Ont. Geol. Surv. Prelim. Map P. 1229, Mineral Deposits Ser., scale 1:1,013,760 or 1 in.: 16 mi. Compilation 1974, 1975, 1976.
- Gorman, W.A.
 1955: Preliminary report on St. Georges-St. Zacharie area, Beauce and Dorchester counties; Que. Dep. Mines, Geol. Surv. Br. Prelim. Rep. no. 314, 5 p.
- Gormasheva, G.S., Zakharov, M.N. and Sanin, B.P.
 1973: Separation of ore-bearing and barren propylite zones by approximate phase analyses of carbonate components of propylite andesites (Illustrated by gold-ore deposits of the Evensk ore node); Ezheg., Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR, 1972, p. 315-319. (Chem. Abstr., v. 81, 138581u.)
- Gornostaev, N.N.
 1937a: Genetic types of the gold deposits of the U.S.S.R.; 17th Int. Geol. Congr., U.S.S.R., Abstract of Papers, p. 178.
 1937b: The auriferous petrographic complexes of the U.S.S.R.; 17th Int. Geol. Congr. U.S.S.R., Abstract of Papers, p. 171.
- Gorshkov, L.S., Nikolaeva, L.A. and Epshtein, Yu.A.
 1971: Changes in gold during river and marine placer deposit formation in the Khualazta ore field, southern Maritime Territory; Izv. Vyssh. Ucheb. Zaved., Geol. Razved., v. 14, no. 6, p. 54-60. (Chem. Abstr., v. 75, 79067g.)
- Gorzhevskii, D.I., Fogel'man, N.A. and Alektorova, Ye.A.
 1968: Transbaikalian gold-molybdenum belt; Acad. Sci. USSR, Dokl., Earth Sci. Sec. v. 178, p. 46-47.
- Gorzhevskii, D.I., Rozhkov, I.S. and Sheglov, A.D.
 1971: Neogene volcanism and gold ore deposits of the Apuseni Mountains; Probl. Geol. Sess. Mezhdunar. Geol. Kongr., 23rd year, A.P. Vinogradov, ed., "Nauka" Moscow, U.S.S.R., p. 317-324. (Chem. Abstr., v. 77, 22977r.)
- Gosling, A.W., Jenne, E.A. and Chao, T.T.
 1971: Gold content of natural waters in Colorado; Econ. Geol., v. 66, p. 309-311.
- Gott, G.B. and McCarthy, J.H.
 1966: Distribution of gold, silver, tellurium, and mercury in the Ely mining district, White Pine County, Nevada; U.S. Geol. Surv., Circ. 535, 5 p.
- Gott, G.B., McCarthy, J.H., VanSickle, G.H. and McHugh, J.B.
 1969: Distribution of gold and other metals in the Cripple Creek district, Colorado; U.S. Geol. Surv., Prof. Pap. 625-A, 17 p.
- Gott, G.B. and Zablocki, C.J.
 1968: Geochemical and geophysical anomalies in the western part of the Sheep Creek Range, Lander County, Nevada; U.S. Geol. Surv., Circ. 595, 17 p.
- Gottesmann, W.
 1976: Material aspects of endogenous gold accumulation; Z. Angew. Geol. v. 22, no. 6, p. 251-258 and v. 22, no. 9, p. 406-412.
- Gottfried, D. and Greenland, L.P.
 1972: Variation of iridium and gold in oceanic and continental basalts; 24th Int. Geol. Congr., Montreal, Sec. 10, p. 135-144.
- Gottfried, D., Rowe, J.J. and Tilling, R.I.
 1972: Distribution of gold in igneous rocks; U.S. Geol. Surv., Prof. Pap. 727, 42 p.
- Gottfried, D., Rowe, J.J., Tilling, R.I. and Dodge, F.W.
 1969: Geochemical behaviour of gold during magmatic differentiation; Geol. Soc. Am., Abstr. with programs, pt. 7, Annu. Meet., Atlantic City, N.J., p. 277-278.
- Goubeau, J. and Birckenbach, L.
 1938: Untersuchung des Edelmetallgehaltes von Kalisalzlagern; Z. Anorg. Allg. Chem., Bd. 236, p. 37-44.
- Goulden, P.D., Afghan, B.K. and Brooksbank, P.
 1972: Determination of nanogram quantities of simple and complex cyanides in water; Anal. Chem., v. 44, no. 11, p. 1845-1850.
- Grabbezhnev, A.I.
 1973: Similar temperature interval of formation of the Ural gold ore and rare metal hydrochemical deposits and the corresponding beresites and greisens; Ezheg., Inst. Geol. Geokhim., Akad. Nauk SSSR, Ural Nauch. Tsent. 1972, p. 154-157. (Chem. Abstr., v. 81, 52456v.)
 1974: Metasomatic processes of rocks in the Kochkar gold ore deposit; Tr. Inst. Geol. Geokhim., Ural, Nauch. Tsent. Akad. Nauk SSSR, v. 108, p. 3-22. (Chem. Abstr., v. 84, 62728 m.)
- Gracey, A.H.
 1898: Placer gold on Vermillion River; Ont. Bur. Mines, v. 7, pt. 3, p. 256-259.
- Graham, A.R.
 1931: Sturgeon Lake gold area, Districts of Kenora and Thunder Bay; Ont. Dep. Mines, Annu. Rep., 1930, v. 39, pt. 2, p. 36-50.
- Graham, A.R. and Kaiman, S.
 1952: Aurostibite, AuSb₂—a new mineral in the pyrite group; Am. Mineral., v. 37, p. 461-469.
- Grange, L.I.
 1937: The geology of the Rotorua-Taupo Subdivision, Rotorua and Kaimanawa Divisions; N.Z. Geol. Surv., Bull. no. 37 (New Series), p. 118-119.
- Granier, C.
 1937: Introduction à la Prospection Géochimique des Gîtes Métallifères; Masson et Cie, Paris, 143 p.
- Granier, C., Lajoie, J.-P. and Vitali, C.
 1963: Géochimie de l'or et du cuivre dans les formations latéritiques argileuses du Mont Flotouo (Ity, Côte d'Ivoire); Soc. Fr. Minéral. Cristallogr., Bull., v. 86, p. 252-258.
- Grantham, D.R.
 1928: Lupa gold field; Geol. Surv., Tanganyika Territory, Short Pap., no. 2, 6 p.
 1933: The eastern extension of the Lupa goldfield (Ipogola-Sengambi-Shoga); Geol. Surv., Tanganyika Territory, Short Pap., no. 11, 9 p.
- Graton, L.C.
 1930: Hydrothermal origin of the Rand gold deposits; Econ. Geol., v. 25, Suppl. to no. 3, 185 p.
 1933: The depth-zones in ore deposition; Econ. Geol., v. 28, p. 513-555.
- Gravrilenko, B.V., Belolipetskiy, A.P., Bolotov, V.I. and Vorobets, A.A.
 1974: Geochemistry of gold in the Kolmozero-Voron'ya metamorphic complex (Kola Peninsula); Geochem. Int., v. 11, no. 1, p. 111-117.
- Grazhdantsev, N.G.
 1971: Statistical comparative analyses of the similarity of the epithermal Dzhungara-Balkhash region gold-silver deposits and the Balei deposit; Mat. Metody Geol., no. 2, p. 96-99. (Chem. Abstr., v. 82, 33376y.)

- Grebenchikov, A.M., Khrust, A.R. and Chepizhnaya, E.A.
1974: Radiogeochemical characteristics of near-surface gold-ore deposits and their prospecting value; *Izv. Vyssh. Ucheb. Zaved., Geol. Razved.*, v. 17, no. 10, p. 44-49. (Chem. Abstr., v. 82, 88555m.)
- Grechishnikov, N.P. and Sakhatkii, I.I.
1973: Conditions of gold accumulation in the conglomerates of Krivoi Rog; *Geol. Zh.*, v. 33, no. 3, p. 110-114.
- Green, A.H. and Keays, R.R.
1976: Geology and gold mineralization of the Woods' Point dyke swarm, Victoria, Australia; *Geol. Assoc. Can., Annu. Meet., Edmonton, Abstr.*, p. 57.
- Green, J.
1959: Geochemical table of the elements for 1959; *Geol. Soc. Am., Bull.*, v. 70, p. 1127-1184.
- Green, L.
1977: *The gold hustlers*; Alaska Northwest Publishing Co., Anchorage, Alaska, 339 p.
- Green, L.H. and Roddick, J.A.
1972: Dawson, Yukon Territory; *Geol. Surv., Can., Map 1284A*.
- Green, T.
1970: *The world of gold*; Simon and Schuster, Inc., New York, 254 p.
1973: *The world of gold today*; Walker and Company, New York, 287 p.
- Green, T.E., Campbell, W.J. and Law, S.L.
1971: Application of a combined ion exchange paper-X-ray spectrographic method to geochemical exploration; *in* *Geochemical exploration*, R.W. Boyle and J.I. McGerigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 561 (abstr.).
- Green, T.E. and Law, S.L.
1970: Properties of an ion exchange resin with high selectivity for gold; *U.S. Bur. Mines, Rep. Invest.* 7358, 9 p.
- Green, T.E., Stephen, L.L. and Campbell, W.J.
1970: Use of selective ion exchange paper in X-ray spectrography and neutron activation, application to the determination of gold; *Anal. Chem.*, v. 42, no. 14, p. 1749-1753.
- Greenberg, R.
1964: The mode of origin of banket orebodies, discussion; *Inst. 1965: Min. metall., Trans.*, v. 74, no. 703, p. 574-576.
- Greenland, L.
1967: The abundances of selenium, tellurium, silver, palladium, cadmium, and zinc in chondritic meteorites; *Geochim. Cosmochim. Acta*, v. 31, no. 5, p. 849-860.
- Greig, J.A.
1976: Claymore gold placers, Ladue River area, Yukon-Alaska; *Geol. Assoc. Can. Cordilleran Sec., Geomorphology of the Canadian Cordillera and its bearing on mineral deposits, Prog. Abstr.*, Vancouver, p. 21.
- Gribnitz, K.H.
1964: Notes on the Barberton goldfield; *in* *The geology of some ore deposits in southern Africa*, v. 2, S.H. Haughton, ed.; *Geol. Soc. S. Afr., Johannesburg*, p. 77-90.
- Griffis, A.T.
1962: A geochemical study of the McIntyre mine; *Can. Inst. Min. Metall., Bull.*, v. 55, no. 598, p. 76-83.
- Griffith, S.V.
1960: *Alluvial prospecting and mining*, 2nd. ed.; Pergamon Press, Inc., New York, 245 p.
- Griffitts, W.R. and Alminas, H.V.
1968: Geochemical evidence for possible concealed mineral deposits near the Monticello Box, northern Sierra Cuchillo, Socorro County, New Mexico, *U.S. Geol. Surv., Circ.* 600, 13 p.
- Griffitts, W.R., Alminas, H.V. and Mosier, E.L.
1971: Trace metal distribution in the Vicks Peak, Steel Hill, and Black Hill quadrangles, Socorro County, New Mexico; *U.S. Geol. Surv., Open File Rep. Temp.* 1436 (Nb and Au).
- Grigor'ev, A.M.
1968: Geochemical underground prospecting for gold in northern Kazakhstan; *Glubinnye Poiski Rud. Mestorozhd.*, v. 2, p. 267-289. (Chem. Abstr., v. 73, 79378 t.)
- Grigoryan, S.V. and Zubov, M.A.
1971: Endogeneous geochemical haloes of gold ore deposits; *Vop. Prikl. Geokhim.*, no. 2, p. 44-52. (Chem. Abstr., v. 77, 77800h.)
- Grimanis, A.P., Pantazis, G., Papadopoulos, C. and Tsanos, N.
1965: Determination of trace elements in the Greek lakes by neutron-activation analysis; *Proc. 3rd Int. Conf. Peaceful Uses Atomic Energy, Geneva 1964*, v. 15, p. 412-419.
- Grip, E.
1953: Tracing of glacial boulders as an aid to ore prospecting in Sweden; *Econ. Geol.*, v. 48, p. 715-725.
- Grip, E. and Wirstam, A.
1970: The Boliden sulphide deposit; *Sver. Geol. Unders., Ser. C*, no. 651, v. 64, no. 8, 68 p.
- Grishin, V.M. and Zlomanova, Z.G.
1971: Morphogenetic differences in vein quartz of gold ore deposits of northern Kazakhstan; *Tr. Inst. Geol. Nauk, Akad. Nauk Kaz. SSR*, v. 31, p. 63-72. (Chem. Abstr., v. 80, 123151j.)
- Grishin, V.M., Izyumskiy, S.I. and Gapouov, T.G.
1971: Thermoluminescence of quartz from primary gold deposits of northern Kazakhstan; *Zap. Vses. Mineral. Obshchest.*, v. 100, no. 2, p. 153-162.
- Gritsik, V.V., Gritsik, E.P. and Matkovskii, O.I.
1969: Native gold from the upper reaches of the Belyi Cheremosh River; *Mineral. Sb. (Lvov)*, v. 22, no. 4, p. 386-393. (Chem. Abstr., v. 72, 45981y.)
- Gross, J. and Scott, J.W.
1927: Precipitation of gold and silver from cyanide solution on charcoal; *U.S. Bur. Mines Tech., Pap.* 378, 78 p.
- Gross, W.H.
1950: A study of the spatial relation of gold ore to intrusive bodies in northwestern Ontario; *Geol. Assoc. Can., Proc.*, v. 3, p. 123-139.
1952: Radioactivity as a guide to ore; *Econ. Geol.*, v. 47, p. 722-742.
1968: Evidence for a modified placer origin for auriferous conglomerates, Canavieiras mine, Jacobina, Brazil; *Econ. Geol.*, v. 63, p. 271-276.
1975: New ore discovery and source of silver-gold veins, Guanajuato, Mexico; *Econ. Geol.* v. 70, p. 1175-1189.
- Grosse, E.
1932: Zur Kenntnis der Gold-Silberlagerstätten von Titiribi; *Z. Prakt. Geol.*, v. 40, p. 44-45.
- Grossman, L.
1973: Refractory trace elements in Ca-Al-rich inclusions in the Allende meteorite; *Geochim. Cosmochim. Acta*, v. 37, p. 1119-1140.
- Grout, F.F.
1913: On the behaviour of cold acid sulphate solutions of copper, silver and gold with alkaline extracts of metallic sulphides; *Econ. Geol.*, v. 8, p. 407-433.
1946: Microscope characters of vein carbonates; *Econ. Geol.*, v. 41, p. 475-502.
- Gruner, J.W.
1933: The solubilities of metallic sulphides in alkali sulphide solutions; *Econ. Geol.*, v. 28, p. 773-777.
- Grutterink, J.A.
1950: The origin of the residual gold deposits of Surinam (Dutch Guyana); *Geol. Mijnbouw*, no. 3, p. 89-93.
- Guigues, J. et Devismes, P.
1969: La prospection minière à la batée dans le Massif Armoricain; *B.R.G.M., Mem.*, no. 71, 167 p.
- Guigues, J. et Machairas, G.
1972: Les diverses minéralisations aurifères du Massif Armoricain, en relation avec le volcanisme, la sédimentation et les orogénies; *24th Int. Congr. Montreal, Sec. 4, Mineral deposits*, p. 188-195.

- Guiguet, M.
1961: Cariboo gold quartz; *Western Miner*, v. 34, no. 7, p. 37-44.
- Guild, P.W.
1972: Metallogeny and the new global tectonics; 24th Int. Geol. Congr., Montreal, Sec. 4, Mineral deposits, p. 17-24.
- Guimaraes, D.
1947: Mineral deposits of magmatic origin; *Econ. Geol.*, v. 42, p. 721-736.
- Guiterman, F.
1890: Gold deposits in the quartzite formation of Battle Mountain, Colorado; *Colo. Sci. Soc., Proc.*, v. 3, pt. 3, p. 264-268.
- Gümüş, A.
1970: Türkiye metalojenisi; *Maden Tetkik ve Arama Enstitüsü Yayınlarından*, no. 144, Ankara, 30 p.
- Gundobin, G.M. and Kolesnikov, V.N.
1974: Dispersion trains of subsurface gold-silver deposits; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1973, L.V. Tauson, ed., p. 274-278.
- Gunn, C.B.
1968: Origin of the bedrock values of placer deposits; *Econ. Geol.*, v. 63, p. 86.
- Gunning, H.C.
1948: Privateer mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 86-88.
- Gurev, V.F.
1970: Mineralogical-geochemical heavy concentrate method of prospecting for gold deposits; *Izv. Tomsk, Politekh. Inst.*, no. 239, p. 411-415. (Chem. Abstr., v. 75, 120080w.)
- Gurov, L.P.
1972: Gold-bearing deposits of the upper Amur River region; *Vop. Geol. Rud. Mesterozhd. Dal'nego Vostoka*, G.I. Osipova, ed., Akad. Nauk SSSR, Dal'nevost Geol., Vladivostok, U.S.S.R., p. 66-72. (Chem. Abstr., v. 82, 19286n.)
- Gurulev, S.A., Feofilaktov, G.A. and Truneva, M.F.
1972: Genetic properties of the gold-bearing pyrite complex-metal mineralization of the Kamennyi region in the northern Muisk Range; *Mater. Geol. Polez. Iskop. Buryat. ASSR*, v. 15, p. 88-94. (Chem. Abstr., v. 82, 127549j.)
- Gustafson, J.K.
1933: Metamorphism and hydrothermal alteration of the Homestake gold-bearing formation; *Econ. Geol.*, v. 28, p. 123-162.
- Gustavson, J.B. and Neathery, T.L.
1975: Geochemical prospecting for gold in Alabama; *Am. Inst. Min. Eng., Annu. Meet., New York, Prepr. no. 75-L-54*, 31 p.
- Haber, F.
1927: Das Gold im Meerwasser; *Z. Angew. Chem.*, v. 40, p. 303-314.
1928: Das Gold im Meere; *Z. Ges. Erdkunde Berlin Erg.-Heft Nr. 3*, p. 3-12.
- Hackett, J.P. Jr. and Bischoff, J.L.
1973: New data on the stratigraphy, extent, and geologic history of the Red Sea geothermal deposits; *Econ. Geol.*, v. 68, p. 553-564.
- Haffty, J., Riley, L.B. and Goss, W.D.
1977: A manual on fire assaying and determination of the noble metals in geological materials; *U.S. Geol. Surv. Bull.* 1445, 58 p.
- Hagen, J.C.
1954: Some aspects of the geochemistry of platinum, palladium, and gold in igneous rocks with special reference to the Bushveld Complex, Transvaal; unpubl. Ph.D. thesis, Mass. Inst. Technol., Cambridge, Mass., 300 p.
- Hale, R.C.
1974: Gold deposits of the Coker Creek district, Monroe district, Tennessee, Tenn., Div. Geol., Bull., v. 72, p. 1-93. (Chem. Abstr., v. 82, 114266q.)
- Hale, W.E. and Govett, G.J.S.
1968: Applied geochemistry in exploration for selected mineral occurrences in the Philippines; *Econ. Geol.*, v. 63, p. 87 (abstr.).
- Halet, R.A.
1948: Malartic Gold Fields mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 868-875.
1957: Quesabe mine; in *Structural geology of Canadian ore deposits*, v. 2, Can. Inst. Min. Metall., Montreal, p. 413-415.
- Haley, C.S.
1923: Gold placers of California; *Calif. St. Min. Bur., Bull.* 92, 167 p.
- Hall, A.L.
1930: The gold resources of the Union of South Africa — Murchison Range; in *The gold resource of the world*, 15th Int. Geol. Congr., Pretoria, p. 335-337.
- Hall, G.W.
1977: The gold mines of Merioneth; Griffin Publications, Gloucester, U.K., 120 p.
- Hallbauer, D.K.
1975: The plant origin of the Witwatersrand carbon; *Mineral. Sci. Eng.*, v. 7, no. 2, p. 111-131.
- Hallbauer, D.K. and Joughin, N.C.
1972: Distribution and size of gold particles in the Witwatersrand reefs and their effects on sampling procedures; *Inst. Min. Metall. Trans., Sec. A*, v. 81, p. 133-142.
- Hallbauer, D.K. and van Warmelo, K.T.
1974: Fossilized plants in thucholite from Precambrian rocks of the Witwatersrand, South Africa; *Precambrian Res.*, v. 1, p. 199-212.
- Hallberg, J.A.
1972: Geochemistry of Archean volcanic belts in the Eastern Goldfields region of western Australia; *J. Petrol.*, v. 13, no. 1, p. 45-56.
- Hamaguchi, H., Kuroda, R., Tomura, K., Osawa, M. *et al.*
1961: Values for trace elements in G-1 and W-1 with neutron activation analysis; *Geochim. Cosmochim. Acta*, v. 23, p. 296-299.
- Hammond, E.M.
1889: The auriferous gravels of California; 9th Annu. Rep., State Mineral., Calif. St. Min. Bur., p. 105-138.
- Hamrabaev, I.H., Rahmatullaev, H.R. and Masdiev, R.A.
1972: Some specific features of the distribution of Au, Pb, U, and Th in granitoid rocks concealed beneath other rocks in the territory of the Kyzyl Kum desert; in *Geol. Mineral. Geokhim. Uzb., Tashkent, "FAN" Publishing House*, p. 180-184.
- Hamrabaev, I.H. and Urunbaev, K.U.
1971: On the geochemistry of gold in the magmatic process; *Int. Geochem. Congr., Moscow, U.S.S.R., Abstracts of Reports I*, p. 173-174.
- Hancock, R.D. and Finkelstein, N.P.
1971: π - and σ -bonding in the stabilities of d^{10} metal-ion complexes in aqueous solution; *Inorg. Nucl. Chem. Lett.*, v. 7, p. 477-484.
- Hanna, M.A. and Wolf, A.G.
1941: Gold, silver, and other elements in salt-dome cap rocks; *Am. Assoc. Petrol. Geol., Bull.*, v. 25, p. 750-752.
- Hanson, G.
1935: Barkerville gold belt, Cariboo district, British Columbia; *Geol. Surv. Can., Mem.* 181, 42 p.
- Hanson, G. and McNaughton, D.A.
1936: Eagle-McDame area, Cassiar district, British Columbia; *Geol. Surv. Can., Mem.* 194, 16 p.
- Harbaugh, J.W.
1953: Geochemical prospecting abstracts through June 1952; *U.S. Geol. Surv., Bull.* 1000-A, p. 1-50.

- Hargraves, R.B.
1960: A bibliography of the geology of the Witwatersrand System; Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ., no. 1, 41 p.
1961: Silver content of gold in Witwatersrand conglomerates; Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform., Circ., no. 3, 25 p.
1963: Silver-gold ratios in some Witwatersrand conglomerates; Econ. Geol., v. 58, p. 952-970.
- Hargraves, R.B. and Winter, H. de la R.
1964: A bibliography of the geology of the Witwatersrand system; *in* The geology of some ore deposits in southern Africa, v. 1, S.H. Haughton, ed.; Geol. Soc. S. Afr., Johannesburg, p. 601-616.
- Harriman, F.G.
1965: Madsen Red Lake Gold Mines Limited, mine geology, Private Rep., 7 p.
- Harris, J.F.
1961: Summary of the geology of Tanganyika, pt. 4: economic geology; Tanganyika Geol. Surv., Mem., no. 1, 143 p.
- Harris, M. and Radtke, A.S.
1974: Relation of statistical findings to the geochemistry and genesis of the Carlin gold deposit, Nevada; Econ. Geol., v. 69, p. 1180-1181 (abstr.).
1976: Statistical study of selected trace elements with reference to geology and genesis of the Carlin gold deposit, Nevada; U.S. Geol. Surv., Prof. Pap. 960, 21 p.
- Harrison, H.L.H.
1962: Alluvial mining for tin and gold; Mining Publications, Ltd., London, 313 p.
- Harrison, J.B.
1905: Report on the petrography of the Cuyuni and Mazaruni districts, and of the rocks at Omai, Essequibo River, with some notes on the geology of part of the Berbice River; Georgetown, British Guiana (Rep. Gov. Geol.), 71 p.
1908: The geology of the goldfields of British Guiana; Dulau & Co., London, 320 p.
- Harrison, J.M.
1948: Nor-Acme mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 304-306.
- Harriss, R.C., Crockett, J.H. and Stainton, M.
1968: Palladium and gold in deep-sea manganese nodules; Geochim. Cosmochim. Acta, v. 32, p. 1049-1056.
- Hart, E. A. and Gill, J.E.
1948: Arntfield mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 711-719.
- Hart, R.C., Harper, H.G. and Algorn field staff.
1957: Quirke Lake trough; *in* Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 316-324.
- Hartmann, A. and Sangmeister, E.
1972: Zur Erforschung urgeschichtlicher Metallurgie; Angew. Chem., Bd. 84, no. 14, p. 668-678.
- Harvey, R.D. and Vitaliano, C.J.
1964: Wall-rock alteration in the Goldfield District, Nevada; J. Geol., v. 72, no. 5, p. 564-579.
- Hastings, J.B.
1908: Primary gold in a Colorado granite; Am. Inst. Min. Eng., Trans., v. 39, p. 97-103.
- Hatch, F.H. and Corstorphine, G.S.
1909: The geology of South Africa, 2nd ed.; Macmillan and Co. Ltd., London.
- Hatschek, E.
1919: An introduction to the physics and chemistry of colloids, 3rd ed.; J. & A. Churchill, London, 116 p.
- Hatschek, E. and Simon, A.L.
1912: Gels in relation to ore deposition; Inst. Min. Metall. Trans., v. 21, p. 451-480.
- Hattori, K.
1975: Geochemistry of ore deposition at the Yatani lead-zinc and gold-silver deposit, Japan; Econ. Geol. v. 70, p. 677-693.
- Haugh, I.
1962: A petrographic study of the Falcon Lake stock, eastern Manitoba; unpubl. M.Sc. thesis, Univ. Manitoba, Winnipeg, 85 p.
- Haughton, S.H., ed.
1964a: The geology of some ore deposits in southern Africa, v. 1; Gold deposits of the Witwatersrand Basin, Geol. Soc. S. Afr., Johannesburg, 625 p.
1964b: The geology of some ore deposits in southern Africa, v. 2; Geol. Soc. S. Afr., Johannesburg, 739 p.
- Hausen, D.M. and Kerr, P.F.
1968: Fine gold occurrence at Carlin, Nevada; *in* ore deposits of the United States 1933-1967, v. 1, J.D. Ridge, ed., Am. Inst. Min. Metall. Pet. Eng. New York, p. 908-940.
- Hauser, H.
1901: L'or; Librairie Nony et Cie, Paris, 363 p.
- Hawkes, D.D.
1965: A note on the geochemical dispersion of arsenic in relation to gold mineralization at Marudi Mountain; Br. Guiana Geol. Surv., Rec., v. 3, p. 31-33.
- Hawkes, H.E.
1957: Principles of geochemical prospecting; U.S. Geol. Surv., Bull. 1000-F, 355 p.
- Hawkes, H.E. and Webb, J.S.
1962: Geochemistry in mineral exploration; Harper and Row, New York, 415 p.
- Hawkins, D.B. and Roy, R.
1963: Experimental hydrothermal studies on rock alteration and clay mineral formation; Geochim. Cosmochim. Acta, v. 27, p. 1047-1054.
- Hawley, J.E.
1932: The Siscoe gold deposit; Can. Min. Metall., Bull., v. 25, p. 368-386.
1939: The association of gold, tungsten, and tin at Outpost Islands, Great Slave Lake; Univ. Toronto Studies, Geol. Ser. No. 42, Contrib. Can. Mineral., p. 53-57.
1948: Francoeur mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 701-710.
1952: Spectrographic studies of pyrite in some eastern Canadian gold mines; Econ. Geol., v. 47, p. 260-304.
1962: The Sudbury ores: their mineralogy and origin; Can. Mineral., v. 7, pt. 1, 207 p.
- Hawley, J.E. and Hart, R.C.
1948: Preston East Dome mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 528-538.
- Hawley, J.E. and Nichol, I.
1961: Trace elements in pyrite, pyrrhotite, and chalcopyrite of different ores; Econ. Geol., v. 56, p. 467-487.
- Haycock, M.H.
1937: The role of the microscope in the study of gold ores; Can. Inst. Min. Metall., Trans., v. 40, p. 405-414.
- Head, R.E.
1934: Form and occurrence of gold in pyrite from a metallurgical standpoint; U.S. Bur. Mines, Rep. 3226, p. 27-31.
1935a: Form and occurrence of gold in pyrite; U.S. Bur. Mines, Rep. 3275, p. 39-46.
1935b: Form and occurrence of gold in pyrite-coated gold; Can. Min. J., v. 56, p. 517-521.
- Head, R.E. and Miller, V.
1928: The occurrence of jarosite minerals in oxidized lead ores as a factor in metal losses; U.S. Bur. Mines, Rep. Invest., no. 2870, 13 p.
- Healy, J. et al.
1963: Waiotapu geothermal field; N.Z. Dep. Sci. Ind. Res., Bull. 155, 141 p.

- Healy, J.F.
1978: Mining and metallurgy in the Greek and Roman world; Thames and Hudson, London, 316 p.
- Heatherington, A.
1868: Gold fields of Nova Scotia; John Lovell, Montreal, 170 p.
- Hegemann, F. and Leybold, C.
1954: Eine Methode zur quantitative spektrochemischen Analyse von Pyrite; *Z. Erzbergbau Metallhüttenw.*, v. 7, p. 108–113.
- Heinen, H.J. and Eisele, J.A.
1974: Recovery of gold from ores; U.S. Patent 3,825,651. (Chem. Abstr., v. 81, 12464b.)
- Heinz, W.F.
1975: Prospecting for gold; Pegasus Press, Christchurch, 80 p.
- Helgeson, H.C. and Garrels, R.M.
1968: Hydrothermal transport and deposition of gold; *Econ. Geol.*, v. 63, p. 622–635.
- Helke, A.
1934: Die Goldtellurerzagerstätten von Săcărâmb (Nagyág) in Rumänien; *Neues Jahrb. Mineral., Geol. Paläontol.*, v. 68, pt. A, p. 19–85.
- Hemley, J.J., Hostettler, P.B., Gude, A.J. and Mountjoy, W.T.
1969: Some stability relations of alunite; *Econ. Geol.*, v. 64, p. 599–612.
- Henderson, J.
1917: The geology and mineral resources of the Reefton subdivision; *N.Z. Geol. Surv., Bull.* 18, 232 p.
1930: The gold resources of New Zealand; in *The gold resources of the world*, 15th Int. Geol. Congr., Pretoria, S. Afr., 1929, p. 259–263.
- Henderson, J. and Bartrum, J.A.
1913: The geology of the Aroha subdivision, Hauraki, Auckland; *N.Z. Geol. Surv., Bull.* 16 (new ser.), 127 p.
- Henderson, J.F.
1948a: The relation of gold deposits to structure, Yellowknife, N.W.T.; *Precambrian*, v. 21, no. 7, p. 6–11.
1948b: Structural control of ore deposits in the Canadian Shield between Great Slave and Great Bear lakes, Northwest Territories; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 238–243.
- Henderson, J.F. and Brown, I.C.
1950: Structure of the Yellowknife Greenstone Belt, Northwest Territories; *Can. Inst. Min. Metall., Trans.*, v. 53, p. 415–422.
1966: Geology and structure of the Yellowknife Greenstone Belt, District of Mackenzie; *Geol. Surv. Can., Bull.* 141, 87 p.
- Henderson, J.F. and Fraser, N.H.C.
1948: Camlaren mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 269–272.
- Henderson, J.F. and Jolliffe, A.W.
1939: Relation of gold deposits to structure, Yellowknife and Gordon Lake areas Northwest Territories; *Can. Inst. Min. Metall., Trans.*, v. 42, p. 314–336.
- Hendricks, R.L., Reisbick, F.B., Mahaffey, E.J., Roberts, D.B. and Peterson, M.N.A.
1969: Chemical composition of sediments and interstitial brines from the Atlantis II, Discovery and chain deeps; in *Hot brines and recent heavy metal deposits in the Red Sea*, E.T. Degens and D.A. Ross, ed., Springer-Verlag New York Inc. 1969, p. 407–440.
- Henley, R.W.
1971: Geochemistry and genesis of Precambrian gold deposits; Ph.D. thesis, Univ. Manchester. (abstr., *Int. Min. Metall. Trans.*, sec. B, v. 81, 1972, p. 126. Also *Min. Sci. Eng.*, v. 5, no. 4, 1973, p. 295–303.)
1973: Solubility of gold in hydrothermal chloride solutions; *Chem. Geol.*, v. 11, no. 2, p. 73–87.
- Henley, R.W., Norris, R.J. and Paterson, C.J.
1976: Multistage ore genesis in the New Zealand geosyncline: a history of post-metamorphic lode emplacement; *Miner. Deposita (Berl.)*, v. 11, p. 180–196.
- Henley, K.J.
1975: Gold ore mineralogy and its relation to metallurgical treatment; *Mineral. Sci. Eng.*, v. 7, p. 289–312.
- Herman, H.
1914: Economic geology and mineral resources of Victoria; Victoria (Australia) *Geol. Surv., Bull.* 34, 36 p.
- Herz, N.
1966: Gold; in *Treatise on analytical chemistry*, I.M. Kolthoff, P.J. Elving and E.B. Sandell, eds., pt. 2, v. 4, p. 71–105, Interscience Publishers, New York.
- Hess, F.L.
1917: Tungsten minerals and deposits; *U.S. Geol. Surv., Bull.* 652, 85 p.
- Hewett, D.F.
1931: Zonal relations of the lodes of the Sumpter Quadrangle; *Am. Inst. Min. Metall. Eng., Trans., Gen. Vol.*, p. 305–346.
- Hewett, D.F. and Rove, O.N.
1930: Occurrence and relations of alabandite; *Econ. Geol.*, v. 25, p. 36–56.
- Hewett, D.F., Fleischer, M. and Conklin, N.
1963: Deposits of the manganese oxides: supplement; *Econ. Geol.*, v. 58, p. 1–51.
- Hey, M.H.
1962: An index of mineral species and varieties arranged chemically, 2nd ed; *Br. Mus.*, 728 p.
1963: Appendix to the second edition of an index of mineral species and varieties arranged chemically; *Br. Mus.*, 135 p.
1966: Catalogue of meteorites, 3rd ed.; *Br. Mus., Publ. no.* 464, London, 637 p.
- Hey, M.H. and Embrey, P.G.
1974: A second appendix to the second edition of an index of mineral species and varieties arranged chemically; *Br. Mus., Publ. no.* 725, 168 p.
- Hildebrand, F.A. and Gott, G.B.
1974: Coloradoite, acanthite, and jarosite from the Cripple Creek district, Teller County, Colorado; *U.S. Geol. Surv., J. Res.*, v. 2, no. 3, p. 339–340.
- Hildon, M.A. and Sully, G.R.
1971: The determination of gold in the p.p.b. and p.p.m. ranges by atomic absorption spectrometry; *Anal. Chim. Acta*, v. 54, p. 245–251.
- Hill, J.M.
1915: Notes on the fine gold of Snake River, Idaho; *U.S. Geol. Surv., Bull.* 620-L, p. 271–294.
- Hillebrand, J.R.
1954: A suggested source of the thiophile elements of the Tertiary ore deposits of the southwest; *Econ. Geol.*, v. 49, p. 863–876.
- Hiller, J.E.
1962: Die mineralischen Rohstoffe; E. Schweizerbart'sche Verlagsbuchhandlung, Stuttgart, 359 p.
- Hills, E.S.
1947: The metalliferous geochemical zones of Australia; *Econ. Geol.*, v. 42, p. 478–491.
1953: Tectonic setting of Australian ore deposits; in *Geology of Australian ore deposits*, v. 1, A.B. Edwards, ed., 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 41–61.
- Hintenberger, H., Jochum, K.P. and Seufert, M.
1973: The concentrations of the heavy metals in the four new Antarctic meteorites Yamato (a), (b), (c), and (d) and in Orgueil, Murray, Allende, Abec, Allegan, Mocs, and Johnstown; *Earth Planet. Sci. Lett.*, v. 20, no. 3, p. 391–394.
- Hintze, C.
1889–1968: *Handbuch der Mineralogie*; 6 vol., Berlin and Leipzig.

- Hirst, T.
1938: The geology of the Tarkwa goldfield and adjacent country; Gold Coast Geol. Surv., Bull. no. 10, 24 p.
1942: The geology of the Konongo gold belt and surrounding country; Bull. Imp. Inst., v. 40, no. 1, p. 36–61.
- Hite, T.H.
1933a: Fine gold and platinum of Snake River, Idaho; Econ. Geol., v. 28, p. 256–265.
1933b: Special features of fine gold from Snake River, Idaho; Econ. Geol., v. 28, p. 686–691.
- Ho, C.S.
1953: Mineral resources of Taiwan; Taiwan Geol. Surv., 313 p.
- Hobbs, F.
1943: Gold, the real ruler of the world; The Business Foundation Publishers, Chicago, Ill., 265 p.
- Hobson, B.
1971: Historic gold coins of the world; Doubleday & Company, Inc., Garden City, New York, 192 p.
- Hobson, G.V. and Robinson, A.M.
1943: The Gold Coast blanket: some aspects of its geology in relation to mining; Inst. Min. Metall., Bull., no. 460, p. 1–23.
- Hodgson, J.N.
1968: The optical properties of gold; J. Phys. Chem. Solids, v. 29, p. 2175–2181.
- Hoefs, J., Nielsen, H. and Schidlowski, M.
1968: Sulfur isotope abundances in pyrite from the Witwatersrand conglomerates; Econ. Geol., v. 63, p. 975–977.
- Hoefs, J. and Schidlowski, M.
1967: Carbon isotope composition of carbonaceous matter from the Precambrian of the Witwatersrand System; Science, v. 155, p. 1096–1097.
- Hoffman, A.
1947: Free gold, the story of Canadian mining; Rinehart, New York and Toronto, 420 p.
- Hoffman, F.
1931: Die Gold-Silverlagerstätte von Titiribi (Kolumbien); Z. Prakt. Geol., v. 39, p. 1–13, 19–26.
- Höfler, H. and Sorantin, H.
1967: Application of nondestructive activation analysis to meteorites: determination of aluminum, vanadium, manganese, and gold in stony and iron meteorites; Chem. Geol., v. 2, no. 4, p. 273–278.
- Hofmann, F.
1965: Untersuchungen über den Goldgehalt der Oberen Marinen Molasse und des Stubensandsteins in der Gegend von Schaffhausen; Schweiz. Mineral. Petrogr. Mitt., v. 45, no. 1, p. 131–137. (Chem. Abstr., v. 53, 14553c.)
- Hogan, J.
1975: Gold; Can. Min. J., v. 96, no. 2, p. 109–112.
- Hogg, N.
1957: Nor-Acme mine; in Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 262–275.
- Hoggins, F.E. and Brooks, R.R.
1973: Natural dispersion of mercury from Puhipuhi, Northland, New Zealand; N.Z. J. Mar. Freshwater Res., v. 7, nos. 1 and 2, p. 125–132.
- Holland, S.S.
1944: Lode-gold deposits, north-eastern British Columbia and Cariboo and Hobson Creek areas; British Columbia Dep. Mines, Bull. no. 20, pt. 6, 16 p.
1950: Placer gold production of British Columbia; B.C. Dep. Mines, Bull. 28, 89 p.
- Holmes, S.W.
1957: Pronto Mine; in Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 324–339.
- Holmes, T.C.
1948: Dome mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 539–547.
- Hoover, H.C.
1899: The superficial alteration of Western Australian ore deposits; Am. Inst. Min. Eng., Trans., v. 28, p. 758–765.
- Hoover, H.C. and Hoover, L.H., translators
1912: De re metallica by G. Agricola (1556); Mining Mag., London, 637 p.
- Hopkins, H.
1950: Geology of the Wright-Hargreaves mine; Ont. Dep. Mines, v. 57, pt. 5, p. 161–176.
- Hopkins, P.E.
1922: Ontario gold deposits; Ont. Dep. Mines, Annu. Rep., 1921, v. 30, pt. 2, 73 p.
1923: Lebel and Gauthier townships; Ont. Dep. Mines, v. 32, pt. 4, p. 53–88.
1925a: Larder Lake area; Ont. Dep. Mines, Annu. Rep., 1924, v. 33, pt. 3, p. 1–26.
1925b: Night Hawk Lake gold area; Ont. Dep. Mines, Annu. Rep., 1924, v. 33, pt. 3, p. 27–36.
- Hopper, S.A.J.
1948: Golden Manitou mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 891–893.
- Horikoshi, E.
1969: Volcanic activity related to the formation of the Kurokô-type deposits in the Kosaka district, Japan; Miner. Deposita (Berl.), v. 4, p. 321–345.
- Horikoshi, Y.
1951: Fundamental studies of the Kurokô deposits, with special reference to the Hanaoka mine, I–III; Min. Geol. (Japan), v. 1, no. 1, p. 1–11 and v. 1, no. 2, p. 69–78.
- Horn, M.K. and Adams, J.A.S.
1966: Computer-derived geochemical balances and element abundances; Geochim. Cosmochim. Acta, v. 30, p. 279–297.
- Horwood, C.B.
1917: The gold deposits of the Rand; Charles Griffin & Company Ltd., London, 400 p.
- Horwood, H.C.
1938: Geology of the Casummit Lake area and the Argosy mine; Ont. Dep. Mines, Annu. Rep., 1937, v. 46, pt. 7, 33 p.
1945: Geology and mineral deposits of the Red Lake area; Ont. Dep. Mines, Annu. Rep., 1940, v. 49, pt. 2, 231 p.
1948a: General structural relationships of ore deposits in the Little Long Lac-Sturgeon River area; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 377–384.
1948b: General structural relationships of ore deposits in the Red Lake area; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 322–328.
1948c: Gold Eagle mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 346–351.
1948d: McKenzie Red Lake mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 352–356.
1948e: Howey and Hasaga mines; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 340–345.
- Hosted, J.O. and Wright, L.B.
1923: Geology of the Homestake orebodies and the Lead area of South Dakota; Eng. Min. J., v. 115, p. 793–799, 836–843.
- Houtz, R.E. and Phillips, K.A.
1963: Interim report on the economic geology of Fiji; Fiji, Geol. Surv. Dep., Econ. Rep. no. 1, 36 p.
- Hovorka, D. and Jaros, M.
1974: Gold abundances in West Carpathian ultramafic rocks; Geol. Zb. (Slov. Akad. Vied), v. 25, no. 2, p. 355–362.
- Howe, E.
1924: The gold ores of Grass Valley, California; Econ. Geol., v. 19, p. 595–622.

- Howie, F.H. and Veale, C.R.
1966: Low temperature synthesis of gold telluride; *J. Inorg. Nucl. Chem.*, v. 28, p. 1149–1154.
- Hrytsyk, V.V., Hrytsyk, K.P. and Plavshudin, V.G.
1969: First discovery of native gold in earthy manganese ores of the Chyvchyn Mountains; *Rep., Acad. Sci. Ukr. SSR, Ser. B, Geol., Geophys. Chem., Biol.*, v. 31, no. 6, p. 493–496.
- Huang, C.K.
1955: Gold-copper deposits of the Chinkuashih mine, Taiwan, with special reference to the mineralogy; *Acta Geol. Taiwan.*, no. 7, p. 1–20.
1960: Gold deposits of the Wutanshan area, Taiwan, and their relation to the Chinkuashih deposits; *Acta Geol. Taiwan.*, no. 8, p. 13–25.
1972: Characteristic features of the gold-copper deposits of the Chinkuashih area, and prospect of copper production in Taiwan; *Geol. Soc. China, Proc.*, no. 15, p. 5–6.
1973: Minor gangue minerals of the Chinkuashih gold-copper deposits, Taiwan; *Acta Geol. Taiwan.*, no. 16, p. 31–38. (Chem. Abstr., v. 80, 62060e.)
- Hughes, I.G.
1973: Mineral resources of Jamaica; *Jamaica Geol. Surv. Dep., Bull.* 8, 89 p.
- Huffman, C., Mensik, J.D. and Riley, L.B.
1967: Determination of gold in geologic materials by solvent extraction and atomic-absorption spectrometry; *U.S. Geol. Surv., Circ.* 544, 6 p.
- Hulin, C.D.
1929–: Metallization from basic magmas; *Dep. Geol., Univ. Calif., Bull.*, v. 18, no. 9, p. 233–274.
1930: A Mother Lode gold ore; *Econ. Geol.*, v. 25, p. 348–355.
- Hummel, C.H.
1962a: Preliminary geologic map of the Nome D-I quadrangle, Seward Peninsula, Alaska; *U.S. Geol. Surv., Min. Invest. Field Studies Map MF-248*.
1962b: Preliminary geologic map of the Nome C-I quadrangle, Seward Peninsula, Alaska; *U.S. Geol. Surv., Min. Invest. Field Studies Map MF-247*.
- Hummel, R.W.
1957: Determination of gold in sea water by radioactivation analysis; *Analyst*, v. 82, p. 483–488.
- Hunahashi, M.
1973: Quartz fabrics in an epithermal ore vein; *Contrib. Mineral. Petrol.*, v. 39, no. 2, p. 157–170.
- Hunt, T.S.
1879: Chemical and geological essays, 2nd ed.; Scientific Publ. Co., New York and London, 489 p.
- Hunter, S.
1909: The deep leads of Victoria; *Victoria (Australia) Geol. Surv., Mem.* 7, 142 p.
- Hurst, M.E.
1927: Arsenic-bearing deposits in Canada; *Geol. Surv. Can., Econ. Geol. Ser. no. 4*, 181 p.
1931: Pickle Lake-Crow River area, District of Kenora (Patricia Portion); *Ont. Dep. Mines, Annu. Rep.*, 1930, v. 39, pt. 2, p. 1–35.
1935: Vein formation at Porcupine, Ontario; *Econ. Geol.*, v. 30, p. 103–127.
- Hussak, E.
1898: Der goldführende, kiesige Quarzlagergang von Passagem in Minas Geraes, Brasilien; *Z. Prakt. Geol.*, v. 5, p. 345–357.
- Hutchinson, R.W.
1973: Volcanogenic sulfide deposits and their metallogenic significance; *Econ. Geol.*, v. 68, p. 1223–1246.
1975: Lode gold deposits; the case for volcanogenic derivation; in *Proc. 5th Gold and Money Session and Gold Technical Session, Pacific Northwest Metals and Minerals Conference*, Portland, Oregon, *Oreg. Dep. Geol. Miner. Ind. publ.*, p. 64–105.
- Huttl, J.B.
1940: Working a gossan gold ore with modern earth-moving equipment; *Eng. Min. J.*, v. 141, p. 44–47.
- Hytonen, K. and Kallio, P.
1974: Heavy minerals of the Lemmenjoki alluvial gold-bearing deposit, Inari, northern Lapland; *Geologi*, v. 26, p. 103.
- Hyvärinen, L., Kauranne, K. and Yletyinen, V.
1973: Modern boulder tracing in prospecting; in *Prospecting in areas of glacial terrain*, M.J. Jones, ed.; *Inst. Min. Metall.*, p. 87–95.
- Ianovici, V. *et al.*
1969: Evolutia geologica a muntilor metaliferi; *Editura Acad. Republ. Soc. Romania, Bucuresti*, 741 p.
- Ibbotson, P.
1962: The geology of the Tavua area, Viti Levu; *Fiji, Geol. Surv. Dep., Bull.* 8, 25 p.
1967: Petrology of the Tertiary caldera Tavua goldfield; *Fiji, Geol. Surv. Dep., Mem.* 3, 59 p.
- Idriess, I.L.
1933: Prospecting for gold, 4th ed.; Angus and Robertson, Ltd., Sydney, Australia, 293 p.
1934: Gold-dust and ashes; the romantic story of the New Guinea goldfields; Angus and Robertson, Ltd., Sydney, Australia, 285 p.
- Igumnova, N.S.
1974: Gold in endogenous mineral associations of the Khangelas deposit; *Vop. Rudonos. Yakutii, G.N. Gamyarin, ed.*, p. 47–52. (Chem. Abstr., v. 84, 76925k.)
- Ikeda, N.
1955a: The hot springs of Nasu IX; *Nippon Kagaku Zasshi*, v. 76, p. 833–836.
1955b: Chemical studies on the hot springs of Nasu XI; *Nippon Kagaku Zasshi*, v. 76, p. 1071–1073.
- Il'enok, S.S.
1970: Genetic relation of mineralization with intrusions; in *Geol. Zolotorud. Mest. Sib.*, F.M. Shakhov, ed., "Nauka", Sib. Ord., Novosibirsk, U.S.S.R., p. 3–30. (Chem. Abstr., v. 74, 24190r.)
- Il'jin, K.B.
1968: Map of the major metallogenic zones of the U.S.S.R.; U.S.S.R. Min. Geol. (VSEGEI).
1974: Regional metallogeny of the U.S.S.R.; "Nedra" Publ. House, Moscow, 237 p.
- Indolev, L.N., Koshik, I.M. and Zhadanov, Yu. Ya.
1974: Structure and mineral composition of the Sarylakh gold-antimony deposit; *Mineral. Endog. Mestorozhd. Yakutii*, p. 92–108. (Chem. Abstr., v. 82, 114223y.)
- Indolev, L.N. and Zhadanov, Yu. Ya.
1975: Aurostibite from the gold antimony deposits of Yakutia; *Zap. Vses. Mineral. O-Va*, v. 104, p. 586–588.
- Ingall, E.D.
1893: The precious metals—New Brunswick; *Geol. Surv. Can., Annu. Rep.* 1891 (new ser.), v. 5, pt. 2, p. 147ss.
- International Geological Congress
1930: The gold resources of the world; 15th Int. Geol. Congr., Pretoria, South Africa, 457 p.
- Ipat'eva, I.S.
1968: Accessory minerals in granitic rocks of the Upper Indigirka region (eastern Yakut A.S.S.R.); in *Aktses-soryne Miner. Izverzhenykh Porod*, I.E. Smorchkov, ed., *Izd. "Nauk"*, Moscow, p. 173–180. (Chem. Abstr., v. 71, 63163s.)
- Irving, J.D., Emmons, S.F. and Jaggard, T.A.
1904: Economic resources of the northern Black Hills; *U.S. Geol. Surv., Prof. Pap.* 26, 222 p.
- Ishihara, S. *et al.*
1974: Geology of Kurokô deposits; *Min. Geol. Spec. Issue no. 6, Publ. Soc. Min. Geol. Japan*, 435 p.
- Ishii, E.
1974: Statistical analysis of the veins of the Ohkuchi Mine, Kagoshima Prefecture, Japan; *Kozan Chishitsu*, v. 24, no. 3, p. 213–222. (Chem. Abstr., v. 81, 155890m.)

- Ishikawa, H., Kuroda, R. and Sudo, T.
1962: Minor elements in some altered zones of "Kurokô" (Black Ore) deposits of Japan; *Econ. Geol.*, v. 57, p. 785-798.
- Ishmurzin, F.Ya. and Volkov, Yu.Ya.
1974: Association of gold with bismuth telluride at the Kumbel'skoe ore field in northern Kirgizia; *Uzb. Geol. Zh.*, v. 18, no. 3, p. 82-83. (Chem. Abstr., v. 82, 61963f.)
- Ismagilov, M.I.
1969: Primary zoning in Maisk gold complex ore deposit; *Ural'skoe Petrograficheskoe Soveshchanie*, Tr., 2nd, Sverdlovsk, 1966, no. 5, p. 178-184.
- Ismagilov, M.I. and Ismagilova, M.Z.
1974: Geochemistry and mineralogy of trace elements of the Baimak gold deposits in southern Urals; *Mineral., Geokhim. Metamorf. Polez. Iskop. Bashk. Zaural'ya*, p. 62-68. (Chem. Abstr., v. 83, 208418p.)
- Itsikson, M.I.
1974: Metallogenic systems of the Pacific segment of the earth; *Geol. Rud. Mestorozhd.*, v. 16, no. 2, p. 10-28.
- Ivankin, P.F. and Rabinovich, K.R.
1972: Gold-bearing ore magmatic systems of the granitoid series; *Int. Geol. Rev.*, v. 14, no. 9, p. 1002-1007.
- Ivanov, T., Shalaby, I.M. and Hussein, A.A.A.
1973: Metallogenic characteristics of South-Eastern Desert of Egypt; *Egypt. Geol. Surv., Annals*, v. 3, p. 139-166.
- Ivanov, V.V.
1959: On the genetic types of endogenous thallium-bearing deposits; *Trans. Inst. Min. Geochem. Crystallogr. Chem.* no. 2, Acad. Sci. USSR, Moscow, p. 230-241.
- Ivanov, V.V. and Meituv, G.M.
1970: On the problem of the source of some trace elements in hydrothermal ores; in *Problems of hydrothermal ore deposition*, Z. Pouba and M. Stempok, ed., *Int. Union Geol. Sci., Ser. A*, no. 2; E. Schweizerbart'sche Verlagsbuchhandlung Stuttgart and Akademiai Kiado, Budapest, p. 100-102.
- Ivanov, V.V., Poplavko, E.M. and Gorokhova, V.N.
1972: The geochemistry of rhenium; *Int. Geol. Rev.*, v. 14, no. 2, p. 1-105.
- Ivensen, Yu.P., Amuzinskii, V.A., Korobitsyn, A.V., Kikhtinskii, G.G. and Trunilina, V.A.
1974: Nature of the distribution of gold in magmatic rocks; *Akad. Nauk. SSSR, Dokl.*, v. 216, no. 6, p. 1387-1389. (Chem. Abstr., v. 82, 33463z.)
- Ivensen, Yu. P., Levin, V.I. and Nuzhnov, S.V.
1963: Placer deposits. Gold-bearing conglomerates; *Str. Zemnoi Kory Yakutii Zakonomer. Razmeshcheniya Polez. Iskop.*, Yu. P. Ivensen, ed., *Izd. "Nauka"*, Moscow, U.S.S.R., p. 325-330. (Chem. Abstr., v. 73, 27541w.)
1969: The types of fossil gold placers in various formations and methods of prospecting for them; *USSR Acad. Sci., Sib. Div., Yakutsk Branch, "Nauka" Publishing House*, Moscow, 210 p.
- Ivensen, Yu. P., Stepanov, A.A. and Chaikovskii, B.K.
1963: Gold-bearing conglomerates; *Razved. Okhr. Nedr.*, v. 29, no. 2, p. 1-7. (Chem. Abstr., v. 59, 3653a.)
- Ivkin, I.I. and Sokolov, V.A.
1971: Quantitative and paragenetic interrelations of gold and silver in metasomatites of secondary quartzite formations; *Mat. Metody Geol.*, no. 2, p. 37-43. (Chem. Abstr., v. 82, 46356s.)
- Iwano, S. and Kuwano, N.
1974: Miargyrite and other minerals from the Hojo mine, Kagoshima Prefecture, Japan; *Chigaku Kenkyu*, v. 25, no. 1-6, p. 94-101. (Chem. Abstr., v. 84, 7591m.)
- Iyer, G.V.A.
1970: Geochemistry of the alkali feldspars and origin of gold-quartz veins in the Precambrian of S.E. Mysore; unpubl. Ph.D. thesis, Indian Inst. Sci., Bangalore, 224 p.
- Jack, T. and Powell, J.
1972: Copper, silver and gold: annual survey covering the year 1970; *Organometal. Chem. Rev., Sec. B.*, v. 10, p. 281-300.
- Jacob, W.
1831: *History of the precious metals*, London.
- Jae, H.K.
1973: A geochemical study on mercury element in the environments of gold-silver ore deposits; *J. Korean Inst. Mineral. Min. Eng.*, v. 10, no. 4, p. 273-279 (Engl. abstr.).
- Jaenicke, J.
1935: *Habers Forschungen über das Goldvorkommen im Meerwasser*; *Naturwissenschaften* 23, p. 57-63.
- Jahns, R.H.
1955: The study of pegmatites; *Econ. Geol.*, 50th Anniv. Vol., pt. 2, p. 1025-1130.
- James, C.H.
1957: Applied geochemical studies in southern Rhodesia and Great Britain; unpubl. Ph.D. thesis, Univ. London, R. Sch. Mines. *Also Imperial College Sci. Technol. Geochem. Prospecting Res. Cen., Tech. Comm. no. 12*, p. 1-237.
1962: A review of the geochemistry of mercury (excluding analytical aspects) and its application to geochemical prospecting; *Univ. London, Imperial College, Sci. Technol., Geochem. Res. Cen., Tech. Comm. no. 41*, 42 p.
1964: The potential role of mercury in modern geochemical prospecting; *Min. Mag.*, v. 110-111, p. 23-32.
- James, L.D.
1965: Regional geochemical reconnaissance in the northern and southern sections of the Sula Mountains schist belt, Sierra Leone; unpubl. Ph.D. thesis, Univ. London, Imperial College, R. Sch. Mines.
- James, W.F.
1948: Siscoe mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 876-882.
- Janssen, E.M.V., Pohlmann, F. and Wieggers, G.A.
1976: The phase diagram of the gold-chlorine system; *J. Less-Common Metals*, v. 45, p. 261-273.
- Jasper, M.W.
1967: Geochemical investigations, Willow Creek southerly to Kenai Lake region, south-central Alaska; *Alaska, Div. Mines, Miner., Geochem. Rep. no. 14*, p. 1-47.
- Jenkins, O.P.
1964: *Geology of placer deposits*, pt. 1-9; *Miner. Inform. Serv.*, Calif. Div. Mines, Geol. v. 17.
- Jenkins, O.P. and Wright, W.Q.
1934: California's gold-bearing Tertiary channels; *Eng. Min. J.*, v. 135, no. 11, p. 497-502.
- Jenks, W.F., ed.
1956: *Handbook of South American geology*; *Geol. Soc. Am., Mem.* 65, 378 p.
- Jenne, E.A., Chao, T.T. and Heppting, L.M.
1968: Use of mercurous chloride to recover trace amounts of gold from waters; *Econ. Geol.*, v. 63, p. 420-421.
- Jenny, W.P.
1903: The chemistry of ore deposition; *Am. Inst. Min. Eng., Trans.*, v. 33, p. 445-498.
- Jensen, M.L.
1971: Stable isotopes in geochemical prospecting; in *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., *Can. Inst. Min. Metall., Spec. Vol. 11*, p. 464-468.
- Jensen, M.L., Ashley, R.P. and Albers, J.P.
1971: Primary and secondary sulfates at Goldfield, Nevada; *Econ. Geol.*, v. 66, p. 618-626.
- Jewitt, W.G. and Gray, S.
1940: The Box mine; *Can. Inst. Min. Metall., Trans.*, v. 43, p. 447-467.

- Johan, Z., Picot, P., Pierrot, R. and Kvacek, M.
1971: La fischesserite, Ag_3AuSe_2 , premier séléniure d'or, isotype de la petzite, Soc. Fr. Mineral. Cristallogr. Bull., t. 94, p. 381–384.
- Johansen, P.G. and Buchanan, A.S.
1957: An application of the microelectrophoresis method to the study of the surface properties of insoluble oxides; Aust. J. Chem., v. 10, no. 4, p. 398–403.
- John, Y.W.
1973: Mineralization of alaskite gold veins; Kwangsan Hakhoe Chi, v. 10, no. 1, p. 5–9. (Chem. Abstr., v. 79, 44345b.)
- Johnson, B.F.G.
1971: The chemistry of gold; Gold Bull., S. Afr. Chamber Mines, v. 4, no. 1, p. 9–11.
1976: Recent advances in organogold chemistry; Gold Bull., S. Afr. Chamber Mines, v. 9, p. 46–49.
- Johnson, B.F.G. and Davis, R.
1973: Gold, in Comprehensive inorganic chemistry, J.C. Bailar *et al.*, eds., Pergamon Press, Inc., Oxford, p. 129–186.
- Johnson, C.H.
1971: Recent advances in sensitivity and data analyses of airborne gamma-ray spectrometry for mineral exploration (abstr.); in Geochemical exploration, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 501.
- Johnson, I.R.
1967: Geochemical exploration for gold in the Tavua basin, Fijii; N.Z., J. Geol. Geophys., v. 10, no. 5, p. 1186–1187 (abstr.).
- Johnson, M.G.
1972a: Placer gold deposits of New Mexico; U.S. Geol. Surv., Bull. 1348, 46 p.
1972b: Placer gold deposits of Arizona; U.S. Geol. Surv., Bull. 1355, 103 p.
1973a: Placer gold deposits of Nevada; U.S. Geol. Surv., Bull. 1356, 118 p.
1973b: Placer gold deposits of Utah; U.S. Geol. Surv., Bull. 1357, 26 p.
1974: Placer gold deposits in the southwest; Min. Eng., v. 26, no. 3, p. 20–23.
- Johnston, H.L. and Leland, H.L.
1938: The solubility of gold hydroxide in alkali and equilibria in the saturated solutions; J. Am. Chem. Soc., v. 60, p. 1439–1445.
- Johnston, W.A. and Uglow, W.L.
1926: Placer and vein gold deposits of Barkerville, Cariboo district, British Columbia; Geol. Surv. Can., Mem. 149, 246 p.
- Johnston, W.D.
1940: The gold quartz veins of Grass Valley, California; U.S. Geol. Surv., Prof. Pap. 194, 101 p.
- Johnston, W.G.Q.
1973: Preliminary geochemical data of Southend, Saskatchewan; Sask. Dep. Min. Res., N.T.S. 64 D/6.
- Jolliffe, A.W.
1945: Yellowknife—faults and orebodies; Precambrian, v. 18, no. 5, p. 7–11.
- Jolly, W.T.
1974: Behaviour of Cu, Zn, and Ni during prehnite-pumpellyite rank metamorphism of the Keweenaw basalts, northern Michigan; Econ. Geol., v. 69, p. 1118–1125.
- Jonasson, I.R. and Allan, R.J.
1973: Snow: a sampling medium in hydrogeochemical prospecting in temperate and permafrost regions; in Geochemical exploration 1972, M.J. Jones, ed., Inst. Min. Metall., p. 161–176.
- Jonasson, I.R. and Boyle, R.W.
1972: Geochemistry of mercury and origins of natural contamination of the environment; Can. Inst. Min. Metall., Bull., v. 65, no. 717, p. 32–39.
- Jonasson, I.R. and Sangster, D.F.
1975: Variations in the mercury content of sphalerite from some Canadian sulphide deposits; Geochemical exploration 1974, I.L. Elliott and W.K. Fletcher, eds., Assoc. Explor. Geochem., Spec. Publ. no. 2, Elsevier Sci. Publ. Co., Amsterdam, p. 313–332.
- Jones, L.H.P.
1957: The solubility of molybdenum in simplified systems and aqueous soil suspensions; J. Soil. Sci., v. 8, no. 2, p. 313–327.
- Jones, O.A.
1947: Ore genesis in Queensland; R. Soc. Queensland, Proc., v. 59, pt. 1, 91 p.
- Jones, R.S.
1968: Gold in meteorites and in the earth's crust; U.S. Geol. Surv., Circ. 603, 4 p.
1969: Gold in igneous, sedimentary and metamorphic rocks; U.S. Geol. Surv., Circ. 610, 28 p.
1970: Gold content of water, plants and animals. U.S. Geol. Surv., Circ. 625, 15 p.
- Jones, R.S. and Fleischer, M.
1969: Gold in minerals and the composition of native gold; U.S. Geol. Surv., Circ. 612, 17 p.
- Jones, W.A.
1944: Mineralogy of the Ross veins, Ramore, Ontario; Can. Inst. Min. Metall., Trans., v. 47, p. 55–70.
1948a: Hollinger mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 464–481.
1948b: Ross mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 570–579.
- Joralemon, P.
1951: The occurrence of gold at the Getchell mine, Nevada; Econ. Geol., v. 46, p. 267–310.
1975: K-Ar relations of granodiorite emplacement and tungsten and gold mineralization near the Getchell mine, Humboldt County, Nevada; Econ. Geol., v. 70, p. 405–406.
- Joubin, F.R.
1948: Bralorne and Pioneer mines; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 168–177.
- Joubin, F.R. and James, D.H.
1957: Algoma uranium district; in Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 305–316.
- Jouravsky, G.
1952a: Or, in Géologie des gîtes minéraux Marocains; 19th Congr. Géol. Int., Rabat, p. 223–232.
1952b: Sur la présence d'une paragenèse nouvelle à molybdénite dans les filons 7 et 5 de la région minéralisée de Bou Azzer (Sud Marocain); C. R., Acad. Sci., Paris, t. 234, p. 230–231.
- Juan, V.C.
1946: Mineral resources of China; Econ. Geol., v. 41, p. 399–471.
- Junner, N.R.
1921: The geology of the gold occurrences of Victoria, Australia; Econ. Geol., v. 16, p. 79–123.
1932: The geology of the Obuasi goldfield; Gold Coast, Geol. Surv., Mem. 2, 43 p.
- Junner, N.R. and Hirst, T.
1944: The Gold Coast Banket: some aspects of its geology in relation to mining, Disc.; Inst. Min. Metall., Bull. no. 466, p. 23–29.
- Junner, N.R., Hirst, T. and Service, H.
1942: The Tarkwa Goldfield; Gold Coast, Geol. Surv., Mem. 6, 75 p.
- Juve, G.
1974: Ore mineralogy and ore types of the Stekenjokk deposit, central Scandinavian Caledonides, Sweden; Sver. Geol. Unders., ser. C, no. 706, Arsbok 68, no. 13, 162 p.

- Kachalovskaya, V.M.
1974: Gold in Nova-Shirokinsk deposit complex metal ores; Nauch. Tr. NII Tsvet. Met. no. 35, p. 138-140. (Chem. Abstr., v. 83, 119089q.)
- Kalenov, A.D.
1958: Geochemistry of scandium in the supergene zone; Geochemistry, no. 2, p. 171-175.
- Kalitkina, N.A.
1971: Consolidation and disintegration of gold in pyrite and arsenopyrite; Vest. Mosk. Univ. Geol., v. 26, no. 6, p. 107-110. (Chem. Abstr., v. 76, 143394m.)
- Kal'nichenko, S.S.
1969: Gold ore mineralization in relation to Lower Paleozoic magmatism and its role in the formation of gold-containing placers of the Vitim plateau and eastern Tuva; Zap. Zabaikal. Filiala Geogr. Obshchest. SSSR, no. 36, p. 35-39. (Chem. Abstr., v. 77, 116685w.)
- Kang, P.K. and Hwang, C.S.
1974: Size and shape of natural gold grains in Bujun gold deposit; Chijil Kwa Chili, v. 14, no. 2, p. 39-42. (Chem. Abstr., v. 82, 142850u.)
- Kanungo, S.C.
1972: Gold mineralization in Koraput district, Orissa; Indian Miner., v. 26, no. 2, p. 61-64.
- Kanurkov, G. and Stefanov, G.
1968: Determination of gold in limonite by the neutron activation method; Geol. Inst., Bulg. Acad. Sci., Jubilee Geol. Vol., V. Tsankov, ed., Izd. "BAN", Sofia, Bulg., p. 323-326. (Chem. Abstr., v. 74, 24201v.)
- Karajian, H.A.
1920: Mineral resources of Armenia and Anatolia; Armen Technical Book Co., New York, 211 p.
- Karapetyan, A.I.
1962: Character of gold mineralization in a copper molybdenum deposit; Int. Geol. Rev., v. 4, no. 8, p. 925-928.
- Karelin, V.V., Maksimov, E.P., Nikitin, V.N. and Uyutov, V.I.
1974: Gold in Mesozoic igneous rocks of the eastern part of the Aldan Shield; Geokhim, no. 4, p. 554-561. (Chem. Abstr., v. 81, 124279q.)
- Kartashov, I.P.
1971: Geological features of alluvial placers; Econ. Geol., v. 66, p. 879-885.
- Kartsov, A.I.
1971: The estimation of reserves of gold from secondary dispersion halos of associated elements; Razved. Okhr. Nedr., no. 5, p. 34-37.
- Kashirin, K.F., Konstantinova, I.M. and Polikarpochkin, V.V.
1975: Gold in granitoids and contact aureoles of granitoid intrusions of the Lena gold-bearing region; Geokhim., no. 10, p. 1571-1575.
- Kashiwagi, T., Nishio, S. and Imai, H.
1955: On the formation temperature of minerals by thermal microscope (heating microscope stage) and decapitation method; Mining Geol. (Japan), v. 5, no. 17, p. 155-161.
- Kashkai, M.A.
1964: Metasomatic zoning and chemistry of listwanites; Fiz. Khim. Usloviya Magmat. Metasomatoza, Inst. Geol. Geofiz., Sibirsk. Otd. Akad. Nauk SSSR, p. 198-214. (Chem. Abstr., v. 64, no. 7, 8048d.)
- Kaskmenskaya, O.V. and Khvorostova, Z.M.
1969: Main stages of relief development and formation of gold placer deposits in the upper Kolyma and Indigirka river basin during Cenozoic time; Probl. Chetvertich. Geol. Sib., V.N. Saks, ed., Izd. "Nauka", Moscow, U.S.S.R., p. 131-142. (Chem. Abstr., v. 73, 17303f.)
- Kaspar, J., Hudec, I., Schiller, P., Cook, G.B., Kitzinger, A. and Wölfl, E.
1972: A contribution to the migration of gold in the biosphere of the humid mild zone; Chem. Geol., v. 10, no. 4, p. 299-305.
- Katakura, Y.
1965: Neutron activation analysis in the determination of colloidal gold and lutecium in biological materials; Tohoku Univ., Sci. Rep., Ser. C12, p. 223-239.
- Kato, T., Shibata, H. and Nakamoto, A.
1933: Telluriferous gold-silver vein at the Rendaizi mine, Idu, with special reference to tellurite; J. Geol. Soc. Tokyo, v. 40, p. 233-241. (Chem. Abstr., v. 29, 4703.) Also Mineral. Abstr., v. 5, p. 479.
- Kavanagh, P.M.
1968: Have 6000 years of gold mining exhausted the world's gold reserves? Can. Inst. Min. Metall., Bull., v. 61, no. 672, p. 553-558.
1976: Gold reserves of the world; Geosci. Can., v. 3, no. 3, p. 151-155.
- Kazakevich, Yu.
1972: Conditions of formation and preservation of composite buried gold placers; Izd. "Nedra" Publ. House, Moscow, 215 p.
1976: Specific features of formation of gold placers in rift zones; 25th Int. Geol. Cong., Sydney, Australia, Abstr., v. 1, p. 213.
- Kazanskii, V.I.
1962: Problem of the primary source of gold in Mal'yi Khingan; Geol. Rud. Mestorozhd., v. 4, no. 2, p. 109-113. (Engl. abstr., in Econ. Geol., v. 58, p. 468.)
- Kazanskii, V.I., Krupennikov, V.A. and Rozanov, Yu. A.
1970: Localization conditions of the Mesozoic gold-bearing metasomatites in the crystalline basement of the central Aldan area; Akad. Nauk. SSSR, Izv., Ser. Geol., no. 6, p. 5-16. (Chem. Abstr., v. 73, 89992c.)
- Kazarinov, A.I.
1969: Origin of gold-ore deposits of the Kuranakh type; in Zolotorud. Form. Dal'nego Vostok., E.A. Radkevich, ed., "Nauka", Moscow, p. 125-135. (Chem. Abstr., v. 74, 5450j.)
- Kazarinov, A.I., Mikhailova, M.S. and Fomin, P.S.
1970: Relation of gold and gold-silver mineralization with propylites, secondary quartzites, and quartz metasomatites (in a group of subvolcanic deposits in the eastern part of the USSR); Izv. Tomsk. Politekh. Inst., v. 239, p. 50-54. (Chem. Abstr., v. 75, 111608x.)
- Keays, R.R. and Crockett, J.H.
1970: A study of precious metals in the Sudbury nickel eruptive ores; Econ. Geol., v. 65, 438-450.
- Keays, R.R., Ganapathy, R., Laul, J.C., Anders, E., Herzog, G.F. and Jeffery, P.M.
1970: Trace elements and radioactivity in lunar rocks: implications for meteorite infall, solar wind flux, and formation conditions of moon; Science, v. 167, no. 3918, p. 490-493.
- Keays, R.R. and Kirkland, M.C.
1972: Hydrothermal mobilization of gold from copper-nickel sulfides and ore genesis at the Thomson River Copper mine, Victoria, Australia; Econ. Geol., v. 67, p. 1263-1275.
- Keays, R.R. and Scott, R.B.
1976: Precious metals in ocean-ridge basalts: implications for basalts as source rocks for gold mineralization; Econ. Geol., v. 71, p. 705-720.
- Keele, J.
1905: The Duncan Creek mining district, Stewart River, Yukon Territory; Geol. Surv. Can., Sum. Rep. 1904, p. 18-42.
- Keesing, N.
1976: History of the Australian gold rushes; Angus and Robertson, Melbourne, 412 p.
- Kelley, K.K.
1960: Contributions to the data on theoretical metallurgy, XIII. High temperature heat content, heat capacity, and entropy data for the elements and inorganic compounds; U.S. Bur. Mines, Bull. 584.

- Kelly, W.C. and Cloke, P.L.
1961: The solubility of gold in near-surface environments; Papers, Mich. Acad. Sci., Arts, Lett., v. 46, p. 19-30.
- Kelly, W.C. and Goddard, E.N.
1969: Telluride ores of Boulder County, Colorado; Geol. Soc. Am., Mem. 109, 237 p.
- Kemp, J.F.
1902: The geological relations and distribution of platinum and associated metals; U.S. Geol. Surv., Bull. 193, 95 p.
1905: Ore deposits of the United States and Canada; Eng. Min. J., New York, 481 p.
- Kemphorne, H.R.
1957: Bevcun mine; in Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 416-419.
- Kennedy, W.Q.
1948: Crustal layers and the origin of ore deposits; Schweiz. Mineral. Petrogr. Mitt., v. 28, p. 222-229.
- Kenny, E.J.
1924: Gold; N. S. W., Geol. Surv. Bull., no. 7, 60 p.
- Kenyon, W.
1975: "All is not golde that shineth"; The Beaver, Summer Outfit 306:1, p. 40-46.
- Kepezinskas, K., Anoshin, G.N. and Tsimbalist, V.G.
1970: Chemical composition of the rocks of the kyanite schist facies and the distribution of gold in them (illustrated by Bolshoi and Malyi Khodakan rivers, Vitim-Patom Upland); Probl. Petrologii Genet. Mineral., v. 2, p. 98-107. (Chem. Abstr., v. 73, 111750w.)
- Keppie, J.D.
1976: Structural model for the saddle reef and associated gold veins in the Meguma Group, Nova Scotia; Can. Inst. Min. Metall. Bull., v. 69, no. 774, p. 103-116.
- Kerr, W.C.
1881- Some peculiarities in the occurrence of gold in North
1882: Carolina; Am. Inst. Min. Eng., Trans., v. 10, p. 475-476.
- Kesler, S.E.
1972: Crustal environment and silver-gold-molybdenum abundances in magmatic-hydrothermal ore deposits; 24th Int. Geol. Congr., Montreal, Abstr., p. 131-132.
1973: Copper, molybdenum and gold abundances in porphyry copper deposits; Econ. Geol., v. 68, p. 106-112.
- Keynes, J.M.
1930: A treatise on money, v. 1, 363 p. and v. 2, 424 p.; Harcourt, Brace and Company, New York.
- Keys, M.R.
1948: Berens River mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 365-368.
- Khairullin, B.G., Yusupov, R.G., Abdurakhmanov, G.A., Bubnov, L.S., Chistaya, G.I. and Panasenkov, F.N.
1968: Gold specialization of Middle-Upper Carboniferous low-depth granodiorite-adamellite batholithic intrusions in the Angara Plateau (Kuramin Ridge); Metallogen. Tyan-Shanya, Frunze, "Ilim", p. 278-281. (Chem. Abstr., v. 71, 115117b.)
- Khamrabaev, I. Kh., ed.
1969: The gold ore deposits and principal features of the metallogeny of gold in Uzbekistan; "Fan" Publ. Office, Uzb. S.S.R., Tashkent, 396 p.
- Khamrabaev, I. Kh., Chebotorev, G.M., Mansurov, M., Tillyaev, Kh. S., Dautov, A.I. and Khrenov, V.A.
1971: Geological-mineralogical characteristics of the Chermitan gold deposit in western Uzbekistan; Uzb. Geol. Zh., v. 15, no. 3, p. 3-7. (Chem. Abstr., v. 75, 99913h.)
- Khamrabaev, I. Kh., Ismailov, M.I. and Rakhmatullaev, Kh. R.
1971: Main types of gold and rare metal ore formations in Tien-Shan and the Donets Basin; Geol. Zh., v. 32, no. 5, p. 28-33. (Chem. Abstr., v. 76, 143366h.)
- Khamrabaev, I. Kh., Rakhmatullaev, Kh. R., Kasymov, A.K. and Aripova, Kh.
1965: Auriferous rocks in the southern part of the Tamdytau; Uzb. Geol. Zh., v. 9, no. 1, p. 15-19. (Chem. Abstr., v. 63, 1599a.)
- Khamrabaev, I. Kh., Rakhmatullaev, Kh. R. and Magdiev, R.A.
1972: Distribution characteristics of gold, lead, uranium, and thorium in granitic rocks of enclosed territories in central Kyzylkums; Zap. Uzb. Otd. Vses. Mineral. Obshchest., no. 25, p. 148-151. (Chem. Abstr., v. 78, 60662n.)
- Khamrabaev, I. Kh. and Uruibaev, K.U.
1972: Geochemistry of gold in magmatic processes; Mezhdunar. Geokhim. Kongr. Dokl. 1st, 1971, pt. 1, p. 594-605. (Chem. Abstr., v. 81, 5297j.)
- Kharchenko, Yu. I.
1970: Possible parental rock sources of gold alluvial placer deposits in central and southern Kamchatka; Probl. Geol. Rossypei, Soveshch., (Dokl.) 3rd., 1969, V.I. Smirnov, ed., Sev. Vost. Kompleks. Inst. Magadan, U.S.S.R., p. 138-146. (Chem. Abstr., v. 75, 38848u.)
- Kharkar, D.P. and Turekian, K.K.
1971: Analyses of Apollo 11 and Apollo 12 rocks and soils by neutron activation; Proc., 2nd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 2, v. 2, p. 1301-1305.
- Khetagurov, G.V.
1969: Distribution of silver and gold in ores, minerals and enrichment products of the lead-zinc deposits of the Greater Caucasus; Geochem. Int., v. 6, p. 1070-1077.
- Khitarov, N.I.
1957: The chemical properties of solutions arising as a result of the interaction of water with rocks at elevated temperatures and pressures; Geokhim., no. 6, p. 481-492.
- Khorvat, V.A.
1972: Talcosed serpentinites in the gold-sulfide deposits of the Balyska ore field in northern Kirgizia; Geol. Rud. Raionov Mestorozhd., Srednei Azii, Metody Ikh. Izuch. Razved., C.K. Abadullaev, ed., p. 93-97. (Chem. Abstr., v. 80, 98432s.)
- Khotamov, Sh., Lobanov, E.M. and Kist, A.A.
1966: The problem of the concentration of gold in organs of plants within ore fields; Akad. Nauk Tadzhik. SSR, Dokl., v. 9, no. 11, p. 27-30.
- Khramyshkin, P.V.
1962: Geochemical methods for prospecting for gold and mercury in Uzbekistan; Byul. Nauch. Tekhn. Inform. Min. Geol. Okhr. Nedr., SSSR, no. 1, p. 56-60. (Chem. Abstr., v. 60, 3881d.)
1968: Geophysical and geochemical prerequisites for detection of gold-ore deposits in western Uzbekistan; Rud. Form. Osn. Cherty Metallogen. Zolota Uzb., I. Kh. Khamrabaev, ed., Izd. "Fan" Uzb. SSR, Tashkent, U.S.S.R. p. 347-355. (Chem. Abstr., v. 73, 37339a.)
- Khripkov, A.V.
1971: Formation dynamics and source of littoral-marine placers in the Ukraine; Vop. Geol. Mineral. Rud. Mestorozhd. Ukr., no. 4, p. 248-258. (Chem. Abstr., v. 80, 62137k.)
- Khripkov, A.V. and Zaitsev, A.A.
1973: Presence of gold in the weathering crust in the central Dnieper River region; Geol. Zh., v. 33, no. 4, p. 132-134. (Chem. Abstr., v. 80, 5708y.)
- Khryachkov, M.A.
1972: The origin of gold in the central part of Sakhalin Island; Geol. Geofiz., no. 12, p. 120-123. (Chem. Abstr., v. 78, 126912c.)
- Kibanov, G.A.
1968: Gold content in middle Vitim region conglomerates; Geol. Razved. Mestorozhd. Polez. Iskop. Zabaikal., p. 50-51. (Chem. Abstr., v. 70, 79888x.)
- Kieft, C. and Oen, I.S.
1973: Ore minerals in the telluride-bearing gold-silver ores of Salida, Indonesia, with special reference to the distribution of selenium; Miner. Deposita (Berl.), v. 8, no. 4, p. 312-320.
1974: Ore mineral parageneses in the Mn-Sn-Ag-Au-bearing veins of Mangani near Padang, Sumatra, Indonesia; Abstr. Int. Assoc. Genesis Ore Deposits (IAGOD), 4th Symp., Varna, Bulgaria, p. 302-303.

- Kieft, C. and Oen, I.S.
1977: Ore mineral parageneses in Mn-Sn-Ag-Au-Se-bearing veins of Mangani, Sumatra, Indonesia; *in* Problems of ore deposition, v. 2, 4th IAGOD Symp., Varna, Bulgaria, B. Bogdanov, ed., Bulgarian Acad. Sci., Sofia, p. 295-302.
- Kim, J.H.
1973: Geochemical study of mercury in gold-silver ore deposits; *Taehan Kwangsan Hakhoe Chi*, v. 10, no. 4, p. 273-279 (in Korean).
- Kim, Ki Chan
1972: Possible forms of gold migration on the basis of thermodynamic stabilities; *Chijil Kwa Chiri*, v. 12, no. 6, p. 36-39. (Chem. Abstr., v. 79, 138574c.)
- Kim, O.J.
1971: Metallogenic epochs and provinces of South Korea; *Chijil Hakhoe Chi*, v. 7, no. 1, p. 129-155. (Chem. Abstr., v. 82, 173549g.)
- Kimura, K., Fujiwara, S. and Yasuda, Y.
1950: Chemical prospecting IV. Chemical prospecting at the southern part of the Sado gold mine. The distribution of minute amounts of silver and copper in rocks; *J. Chem. Soc. Japan, Pure Chem. Sec.*, v. 71, p. 467-471 (in Japanese). (Chem. Abstr., v. 45, no. 6130i.)
- Kindle, E.D.
1936: Gold occurrences of Ontario, east of Lake Superior; *Geol. Surv., Can., Mem.* 192, 167 p.
1964: Copper and iron resources, Whitehorse copper belt, Yukon Territory; *Geol. Surv. Can., Pap.* 63-41, 46 p.
- Kindle, L.F.
1932: Kowkash-Ogoki gold area, District of Thunder Bay; *Ont. Dep. Mines, Annu. Rep.*, 1931, v. 40, pt. 4, p. 55-104.
- King, F.A.
1955: When Martin Frobisher searched for gold; *Can. Min. J.*, v. 76, pt. 2, no. 12, p. 67-69.
- King, P.B.
1969: The tectonics of North America—a discussion to accompany the tectonic map of North America, Scale 1:5,000,000; *U.S. Geol. Surv., Prof. Pap.* 628, 95 p.
- Kingdom of Saudi Arabia
1965: Mineral resources of Saudi Arabia, *Bull.* no. 1, 73 p.
1969: Mineral resources research, 1967-68, 112 p.
1970: Mineral resources research, 1968-69, 209 p.
- Kingsbury, J.M.
1964: Poisonous plants of the United States and Canada; Prentice-Hall, Inc., Englewood Cliffs, N.J., 626 p.
- Kinkel, A.R.
1948: Buffalo Ankerite mine; *in* Structural geology of Canadian ore deposits, v. 1, *Can. Inst. Min. Metall., Montreal*, p. 515-519.
- Kinkel, A.R. and Lesure, F.G.
1968: Residual enrichment and supergene migration of gold, southeastern United States; *U.S. Geol. Surv., Prof. Pap.* 600-D, p. 174-178.
- Kinoshita, K.
1931: On the "Kurokô" (Black Ore) deposits; *Jap. J. Geol. Geog.*, v. 8, no. 4, p. 281-352.
- Kirillov, G.A.
1972: Facies-dynamic factors in the formation and distribution of gold placers in the Cretaceous formations of western Uzbekistan; *Nauch. Tr., Tashkent. Gos. Univ.* v. 431, p. 162-165. (Chem. Abstr., v. 81, 155806p.)
- Kirillov, V.P., Legedza, V. Ya. and Sidorov, V.A.
1970: Experimental study of the possibility of formation of auriferous iron disulfide at normal temperatures under atmospheric pressure; *Akad. Nauk. SSSR, Dokl.*, v. 195, no. 4, p. 941-943.
- Kirkham, R.V.
1968: A mineralogical and geochemical study of the zonal distribution of ores in the Hudson Bay Range, British Columbia; unpubl. Ph.D. thesis, Univ. Wisconsin, Madison, Wis.
- Kirwan, R.
1799: Geological essays, London, 502 p.
- Kishimoto, F., Kato, K., Takashima, K., Tono, T. and Katsume, K.
1963: Geochemical prospecting for gold-silver deposits, an example of mercury indication at the Okuchi mine; *Kozan Chishitsu*, v. 13, no. 5, p. 243-252. (Chem. Abstr., v. 62, 10231c.)
- Kisielov, W. and Gregorowicz, Z.
1955: Mineral substances in Polish crude oils; *Nafta, Miesiecznik Posweizony Nause, Technica, Statystyce Poland*, v. 11, p. 258-259 (in Polish).
- Kisterov, K.V.
1976: Flatness of gold particles and mechanisms of their migration in the formation process of alluvial placers; *Geol. Rud. Mestorozhd.*, v. 18, no. 2, p. 129-131. (Chem. Abstr., v. 85, 127209k.)
- Kitaev, N.A.
1973: Primary halos of epithermal gold-ore deposits; *Geol. Geokhim. Prognoznaya Ots. Rud. Raionov Mestorozhd. Zabaikal., F.I. Vol'fson, ed.*, p. 102-112. (Chem. Abstr., v. 84, 62586p.)
- Kitaev, N.A. and Bulanov, V.A.
1972: Types of hydrothermal mineralization and mineral associations of the Lubavinsky-Haverchinsky gold-ore deposit (Transbaikalia); *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk. SSSR*, 1971, L.V. Tauson, ed., p. 218.
- Kitaev, N.A., Bulanov, V.A. and Chumakin, V.N.
1973: Formation particularities of Lyubavinsk gold ores; *Ezheg. Inst., Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1972, L.V. Tauson, ed., p. 320-324. (Chem. Abstr., v. 81, 138580t.)
- Kitaev, N.A. and Chumakin, V.N.
1973: Haloes of chemical element association of the Lyubavinsk ore field; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1972, L.V. Tauson, ed., p. 243-247. (Chem. Abstr., v. 81, 138579z.)
- Kitaev, N.A., Naryshev, A.M. and Polikarpochkin, V.V.
1968: Primary dispersion haloes of mercury in the Baleisk goldfield; *Vop. Metall. Rtuti, V.A. Kuznetsov, ed., Izd. "Nauka" Moscow, U.S.S.R.*, p. 228-232. (Chem. Abstr., v. 71, 93440x.)
- Kitaev, N.A., Nesterova, A.A. and Sarapulova, V.N.
1970a: Characteristics of accessory element distribution in pyrites and total sulphide fraction from haloes of the Baleisk goldfield; *Izv. Tomsk. Politekh. Inst.*, v. 239, p. 225-232.
- Kitaev, N.A., Novikov, V.M., Naryshev, A.M. and Polikarpochkin, V.V.
1970b: Comparative data on element composition and zoning of primary haloes over Transbaikalia and Far East epithermal gold deposits; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk. SSSR*, 1969, L.V. Tauson, ed., p. 223-226. (Chem. Abstr., v. 74, 101672d.)
- Kitaev, N.A., Sarapulova, V.N. and Korotaeva, I. Ya.
1970c: Silver/gold ratio in primary haloes of the Baleisk goldfield; *Geol. Geofiz.*, no. 9, p. 117-123. (Chem. Abstr., v. 74, 33455h.)
- Kitami, M.
1973: Recent exploration and development of the Takatama gold and silver mine, Fukushima Prefecture; *Mining Geol. (Japan)*, v. 23, p. 191 (abstr.).
- Kitson, A.
1930: Gold resources of the Gold Coast, British West Africa; *in* Gold resources of the world; 15th Int. Geol. Congr., Pretoria, 1929, p. 161-168.
- Kitson, A.E. and Felton, W.J.
1930: Minerals of concentrates from stream-gravels, soils and crushed rocks of the Gold Coast; *Gold Coast, Geol. Surv., Bull.* no. 6, 50 p.

- Kittl, E.
1931— Los yacimientos auríferos de la República Argentina, su
1932: génesis y posición geológica; *Rev. Minera* t. III, nos. 4, 5, 6, 7; t. IV no. 1., Repr. Publ., Mus. Nac. Hist. Nat. "Bernardino Rivadavea", Bernardo de Irigoyen 331, Buenos Aires, 142 p.
1965: Zur Entstehung der Golderzlagerstätten Argentiniens; *Freiberg. Forschungsh.*, C186, p. 137–143.
- Klempert, S. Ya., Sakhor, D.A. and Khasanov, R.
1973: Submicroscopic gold in Terek deposit pyrites; *Akad. Nauk Uzb. SSR, Dokl.*, v. 30, no. 2, p. 42–43. (*Chem. Abstr.*, v. 81, 15473c.)
- Knight, C.L.
1957: Ore genesis—the source bed concept; *Econ. Geol.*, v. 52, p. 808–817.
- Knight, C.L., ed.
1975: Economic geology of Australia and Papua, New Guinea: I—Metals; *Australas. Inst. Min. Metall.*, 1126 p.
- Knight, C.L., Fraser, R.B. and Baumer, A.
1973: Geology of the Bougainville copper orebody, New Guinea; *Aust., Bur. Min. Resour., Geol. Geophys., Bull.* 141, p. 123–133.
- Knight, C.W.
1925: Lightning River area; *Ont. Dep. Mines, Annu. Rep.*, 1924, v. 33, pt. 3, p. 41–49.
- Knight, O.W.
1911: Research work on certain Nova Scotian gold ores; *Can. Min. J.*, v. 32., p. 622–626, 657–660.
- Knopf, A.
1915: A gold-platinum-palladium lode in southern Nevada; *U.S. Geol. Surv., Bull.* 620A, 18 p.
1924: Geology and ore deposits of the Rochester district, Nevada; *U.S. Geol. Surv., Bull.* 762, 78 p.
1929: The Mother Lode system of California; *U.S. Geol. Surv., Prof. Pap.* 157, 88 p.
- Kobe, H.W.
1960: Cu-Ag deposits of the red-bed type at Negra Huanusha in central Peru; *Schweiz. Mineral. Petrogr. Mitt.*, v. 40, pt. 1, p. 163–176.
- Koch, S. and Grasselly, Gy.
1952: The minerals of the sulphide ore-deposit of Nagyörzsöny; *Acta Univ. Szegediensis, Acta Mineral. Petrog. Tomus VI*, p. 1–21 (in English).
- Koděra, M.
1963: Polymetallic subvolcanic deposits of Banská Stianica and Hodruša; in *Some ore deposits of the western Carpathians, guide to excursion, Symposium on Problems of Postmagmatic Ore Deposition*; Publ. House Czech. Acad. Sci., Praha, p. 64–79.
- Koeberlin, F.R.
1934: An hypothesis as to the origin of gold in volcanic ash; *Eng. Min. J.* v. 135, p. 394–396, 400.
1938: Sedimentary copper, vanadium-uranium, and silver in southwestern United States, *Econ. Geol.*, v. 33, p. 458–461.
- Koen, G.M.
1958: The attrition of uraninite; *Geol. Soc. S. Afr., Trans.*, v. 61, p. 183–196.
- Koga, A.
1960: Chemical studies on the hot springs of Beppu. I. Trace elements in the Beppu hot springs; *Onken Kiyo*, v. 12, p. 52–60.
1961: Chemical studies on the hot springs of Beppu, XXV, Distribution of gold; *Nippon Kagaku Zasshi*, v. 82, p. 1476–1478, VII, Distribution of silver; *Nippon Kagaku Zasshi*, v. 78, p. 1717–1721.
- Kogen, V.S.
1969: Mineral associations of the central Apsakanskoye ore field (Stanovy Range); *Int. Geol. Rev.*, v. 11, no. 8, p. 860–866.
1971: Characteristics of native gold from the Stanovoi Ridge ore formations and placer deposits; *Akad. Nauk. SSSR, Izv. Ser. Geol.*, no. 8, p. 74–84. (*Chem. Abstr.*, v. 76, 5645t.)
- Kogen, V.S., Naprasnikova, L.A. and Ryabtseva, G.I.
1974: Distribution and origin of local beach concentrations of gold as exemplified by a bay in the southern maritime territory; *Izv. Vyssh. Ucheb. Zaved. Geol. Razved.*, v. 17, no. 1, p. 54–60. (*Chem. Abstr.*, v. 81, 66370z.)
- Kokkola, M. and Pehkonen, E.
1976: Kangaskyla: gold in till; *J. Geochem. Explor.*, v. 5, no. 3, p. 239–244.
- Kolesov, S.V.
1975a: Subsidence of gold grains in allochthonous alluvial and coastal marine placers; *Int. Geol. Rev.*, v. 17, no. 8, p. 915–953.
1975b: Flattening and hydrodynamic sorting of placer gold; *Int. Geol. Rev.*, v. 17, no. 8, p. 940–944.
- Kolonin, G.R. and Aksenova, T.P.
1971: Effect of temperature on complex formation of some ore elements in chloride solutions; *Int. Geochem. Congr., Abstracts of Reports I, Moscow, U.S.S.R.*, p. 274–275.
- Kolosova, T.B. and Onishchuk, Yu. V.
1971: A new type of gold-ore mineralization in eastern Transbaikalia; *Int. Geol. Rev.*, v. 13, no. 7, p. 1027–1035.
- Kolotov, B.A., Boldyrev, M.A., Wagner, B.B., Minacheva, L.I., Spasskaya, T.S. and Sokalovskaya, L.A.
1975a: About zones of potassic metasomatism being promising for gold-silver mineralization which are singled out according to hydrochemical data; *Geokhim.*, no. 2, p. 306–307.
- Kolotov, B.A., Spasskaya, T.S., Minacheva, L.I. and Wagner, B.B.
1975b: Acid sorptive barrier for gold in the zone of hypergenesis of ore deposits; *Geokhim.*, no. 12, p. 1898–1900.
- Komov, I.L.
1966: Gold prospecting methods in Yenisey Range; *Int. Geol. Rev.*, v. 8, no. 10, p. 1237–1240.
1969: New type of gold-ore mineralization in the Yenisey Range; *Sov. Geol.*, no. 4, p. 143–144, 1968. *Also Int. Geol. Rev.*, v. 11, no. 3, p. 298–299.
- Kondakov, L.A. and Perunov, V.I.
1973: Origin of Tanzanian ferruginous quartzites illustrated by the Lupa gold field; *Akad. Nauk SSSR, Izv. Ser. Geol.* no. 12, p. 136–138.
- Koneev, R.I.
1974: Mineralogical characteristics of the Katranga gold ore occurrence (Chatkal Ridge); *Zap. Uzb. Otd. Vses. Mineral. O-va*, v. 27, p. 41–43. (*Chem. Abstr.*, v. 83, 100867v.)
- Konkina, O.M.
1970: Distribution of gold in rocks of the Zlatogorsk ultrabasic differentiated massif (northern Kazakhstan); *Mater. Konf. Molodykh Nauch. Sotrudnikov Tsent. Nauch. Issled. Gornorazved. Inst. Tsvet., Redk. Blagorod. Metal.* 1969, p. 16–19. (*Chem. Abstr.*, v. 80, 123168v.)
- Konovalov, E.P.
1941: On the hydrochemical method of prospecting for gold; *Sov. Geol.*, no. 2, p. 114–117.
- Konovalov, I.V.
1973: Wallrock zonation of a gold deposit (Lena region); *Int. Geol. Rev.*, v. 15, no. 10, p. 1180–1181.
1975: Dependence of the temperature of formation of gold-ore deposits in the Lena region on facies of metamorphism; *Akad. Nauk SSSR, Dokl.*, v. 220, no. 3, p. 694–697. (*Chem. Abstr.*, v. 83, 13448r.)

- Konstantinov, M.M.
 1971: Altered wallrocks from some Transcaucasian gold-ore deposits; Tr., Tsent. Nauch. Issled. Gornorazved. Inst., no. 96, pt. 2, p. 59–75. (Chem. Abstr., v. 78, 149694x.)
 1973a: Structures of Transcaucasian auriferous fields and main factors governing their location; Akad. Nauk SSSR, Izv., Ser. Geol., no. 5, p. 68–81.
 1973b: Prospecting criteria for gold ore deposits in Transcaucasus; Razved. Okhr. Nedr., no. 5, p. 11–16. (Chem. Abstr., v. 79, 81633q.)
 1974: Structures of gold fields in Transcaucasia and fundamental relationships in their positions; Int. Geol. Rev., v. 16, no. 3, p. 269–280.
 1977: Geochemical types of gold mineralization in the volcanic regions, Akad. Sci. USSR, Dokl., v. 234, p. 180–183.
- Konstantinov, M.M. and Grushin, V.A.
 1972: Structural conditions of localization of the Zodsk gold ore deposit; Izv. Vyssh. Ucheb. Zaved., Geol. Razved., v. 15, no. 5, p. 60–67. (Chem. Abstr., v. 77, 77766b.)
- Konstantinov, M.M. and Strizhov, V.P.
 1974: Isotope composition of sulphur of sulphides from Transcaucasian gold ore deposits; Tr., Tsent. Nauch. Issled. Geol. Inst. Tsvetn. Blagorodn. Met., v. 112, p. 112–115. (Chem. Abstr., v. 83, 82748a.)
- Konstantinov, M.M., Tomson, I.N., Cheglokev, S.V. and Andreyeva, M.G.
 1967: The character of zoning of mineralization in some ore-bearing areas of the eastern Transbaikalian region; Geol. Rud. Mestorozhd., v. 9, no. 3, p. 41–52. Also Econ. Geol., v. 64, p. 587.
- Konstantinova, I.M., Zontov, V.N. and Polikarpochkin, V.V.
 1973: Carbonate composition of gold ore occurrences in the Lena region and the use of carbonate analyses for prospecting deep mineralization; Ezheg. Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR, 1972, L.V. Tauson, ed., p. 325–329. (Chem. Abstr., v. 81, 138582v.)
- Köppel, V.H. and Saager, R.
 1973: Lead isotope evidence for the detrital origin of Witwatersrand pyrites and its bearing on the provenance of the Witwatersrand gold; Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Cir. no. 79, 17 p.
 1974: Lead isotope evidence on the detrital origin of Witwatersrand pyrites and its bearing on the provenance of the Witwatersrand gold; Econ. Geol., v. 69, p. 318–331.
- Koptev-Dvornikov, V.S., Yemel'yanenko, P.F., Spiridonov, E.M. and Fel'dman, V.I.
 1969: Petrographic features of gold-bearing intrusive masses of the Stepnyak type (northern Kazakhstan); Int. Geol. Rev., v. 11, no. 12, p. 1392–1398.
- Korobeinikov, A.F.
 1971: Morphological features of gold from some Siberian gold ore deposits; Mineralog. Mineral. Kristallogr., Tr., Soveshch. 1969, G.N. Vertushkov, ed., Gorn. Inst., Sverdlovsk, U.S.S.R., p. 33–34. (Chem. Abstr., v. 79, 128012d.)
 1974a: Behaviour of gold during the near-vein metasomatism of rocks of some Siberian gold-ore deposits; Geokhim., no. 6, p. 831–844. (Chem. Abstr., v. 82, 33492h.) Also Geochem. Int., v. 11, p. 592–605.
 1974b: Geochemistry of hydrothermal solutions of gold-ore deposits according to the gas-liquid inclusions in minerals; Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya, v. 144, p. 88–106. (Chem. Abstr., v. 84, 76955v.)
 1976: On the geochemistry of gold in contact-metasomatic processes of granitoid intrusions, Akad. Sci. SSSR, Dokl., v. 227, p. 1224–1227.
- Korobeinikov, A.F. and Oleynikov, B.V.
 1976: The gold in magnetite of traps, granitoid and contact metamorphic rocks from Siberia; Akad. Sci. USSR, Izv. Geol. Ser. no. 1, p. 83–97.
- Korobushkin, I.M.
 1970: The form in which "finely dispersed" gold is found in pyrite and arsenopyrite; Akad. Nauk SSSR, Dokl., v. 192, no. 5, p. 1121–1122.
- Korolev, N.N., Timofeyev, T.S. and Romanenko, D.Ya.
 1971: Gold particle shapes in the sulphide endogenous deposits of central Asia; Zap. Vses. Mineral. Obshchest., v. 100, p. 49–54.
- Koroleva, N.N.
 1968: Telluride pyrite-gold ore formation in the Burgundin ore field; Rud. Form. Osn. Cherty Metallogen. Zolota Uzb., I.Kh. Khamrabaev, ed., p. 70–80. (Chem. Abstr., v. 73, 37344y.)
 1970: Küstelite from a quartz-gold-silver ore occurrence in the Karamazar; Acad. Sci. USSR, Dokl., Earth Sci. Sec., Transl., v. 195, p. 131–133. (Am. Geol. Inst. transl.)
 1971: Relation between Ag:Au ratio and mineral associations; Geochem. Int., v. 8, no. 2, p. 200–205.
- Koroleva, N.N., Korolev, V.A. and Overchkin, V.V.
 1966: Gold-sulfide mineralization in carbonate rocks—a new type of gold mineralization in Middle Asia; Geol. Rud. Mestorozhd., v. 8, no. 5, p. 30–44. (Engl. rev. in Econ. Geol., v. 64, p. 354–355.)
- Koroleva, N.N., Markova, E.A. and Klempert, S.Y.
 1971: Behaviour of gold, bismuth, zinc, lead, and antimony in hydrothermal process; Int. Geochem. Congr., Moscow, Abstr. I, p. 368–369.
- Korotayeva, I.Ya.
 1971: The geochemistry of gold in Mesozoic continental deposits of the Undino-Dainsky depression, eastern Transbaikalia; Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR, 1970, L.V. Tauson, ed., p. 299.
- Korotayeva, I.Ya. and Polikarpochkin, V.V.
 1969: Gold content in the Paleozoic sedimentary rocks of the Nerchinsk Zavod area (eastern Transbaikalia); Geokhim., no. 11, p. 1386–1391. (Chem. Abstr., v. 72, 34346u.)
 1970: Gold in organic remnants in ferruginous sediments of recent river sediments, eastern Transbaikalia. Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR 1969, L.V. Tauson, ed., p. 227–230. (Chem. Abstr., v. 74, 114445h.)
- Korzhinskii, D.S.
 1965: Abriss der metasomatischen Prozesse; Akademie-Verlag, Berlin.
- Koschmann, A.H. and Bergendahl, M.H.
 1962: Gold in the United States, exclusive of Alaska and Hawaii; U.S. Geol. Surv., Mineral. Invest. Resour., Map MR-24.
 1968: Principal gold-producing districts of the United States; U.S. Geol. Surv., Prof. Pap. 610, 283 p.
- Koshman, P.N. and Yugay, T.A.
 1972: The causes of variation in fineness levels of gold placers; Geochem. Int., v. 9, no. 3, p. 481–484.
- Koster, G. and Schmuckler, G.
 1967: Separation of noble metals from base metals by means of a new chelating resin; Anal. Chim. Acta, v. 38, p. 179–184.
- Koulomzine, T.
 1948: Consolidated Central Cadillac mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 816–821.
- Kovalenko, V.I., Kuz'min, M.I. and Koval, P.V.
 1973: General scheme of Mesozoic metallogeny in Mongolia; Ezheg., Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR, 1972, L.V. Tauson, ed., p. 109–114. (Chem. Abstr., v. 81, 155855d.)
- Kowalski, H. and Reimers, P.
 1974: Nondestructive analysis of medieval gold coins; Eurisotop Off. Inform. Bookl., v. 72, p. 391–415. (Chem. Abstr., v. 83, 8341w.)
- Kozlovskaya, A.A., Kozlovskii, G.M. and Kosyak, E.A.
 1974: Mineralogical properties of the ores from the gold-skarn Sary-Adyr deposit in central Kazakhstan; Akad. Nauk SSSR, Izv. Ser. Geol., v. 31, no. 4, p. 67–73. (Chem. Abstr., v. 82, 19469z.)

- Kraft, M., Taubert, P. and Ungethüm, H.
1974: Influence of supergene processes on the distribution of gold illustrated by hydrothermal gold deposits of the Central Mongolian Peoples Republic, Pt. I and II; *Z. Angew. Geol.*, Bd 20, p. 458-468, 495-502. (Chem. Abstr., v. 82, 127630d.)
- Krähenbühl, U., Ganapathy, R., Morgan, J.W. and Anders, E.
1973: Volatile elements in Apollo 16 samples: implications for highland volcanism and accretion history of the moon; *in Proc., 4th Lunar Sci. Conf., Geochim. Cosmochim. Acta*, Suppl. 4, v. 2, p. 1325-1348.
- Krainov, S.R.
1967: Geochemistry of germanium in the thermal carbonate waters (illustrated by examples from the Pamirs and Greater Caucasus); *Geochim. Int.*, v. 4, p. 309-320.
- Krainov, S.R. and Loginova, L.G.
1968: Notes on the geochemistry of rare earth elements (Ce, La, Yb) and yttrium in alkaline waters of the Lovozero massif of intrusive rocks; *in Lithology and useful minerals*, Acad. Sci. USSR, p. 107-110.
- Kraskov, V.V. and Evdokimov, E.I.
1971: Geomorphological prospecting for tin and gold placers in the central Chukotka valleys; *Uch. Zap., Tsentr. Nauch. Issled. Inst. Olovyannoi Prom.*, no. 2, p. 16-20. (Chem. Abstr., v. 79, 68662d.)
- Kraskov, V.V. and Lobanov, V.V.
1973: Morphometric factors of endothermal gold concentration in Chaun-Chukotka placers; *Geomorfol.*, no. 4, p. 29-34. (Chem. Abstr., v. 80, 135867k.)
- Krasnikov, V.I., ed.
1957: Geochemical exploration for ore deposits; *Geol. Lit. Publ. House, Moscow, U.S.S.R.*, 467 p.
1968: Evaluation of gold content in ore deposits and dispersion haloes from accessory elements under eastern Transbaikalia conditions; *Geol. Nekot. Rud. Mestorozhd., Zabaikal*, p. 274-296. (Chem. Abstr., v. 72, 45982z.)
- Krasnova, V.N.
1960: Age of the Kumak schist zone; *Mater. Geol. Polez. Iskop. Yuzh. Urala, Yuzhno-Ural'sk. Geol. Upr.* no. 2, p. 40-42. (Chem. Abstr., v. 60, 310e.)
- Krauskopf, K.B.
1951: The solubility of gold; *Econ. Geol.*, v. 46, p. 858-870.
1956: Factors controlling the concentrations of thirteen rare metals in sea water; *Geochim. Cosmochim. Acta*, v. 9, p. 1-32B.
- Kravchenko, G.L. and Saskhatskii, I.I.
1975: Presence of gold and silver in copper-bearing sandstones of the Donets Basin; *Geol. Zh.*, v. 35, no. 1, p. 119-123. (Chem. Abstr., v. 83, 13442j.)
- Kreiter, V.M., Aristov, V.V., Volynskii, I.S., Krestovnikov, A.B. and Kuvichinskii, V.V.
1959: The behaviour of gold in the zone of oxidation of auriferous sulfide deposits; *Moscow, Gosgeoltekhizdat*, 268 p. (Engl. rev. by O. Zvyagintsev *in Geochemistry*, no. 6, p. 683-685, and by C.F. Davidson *in Econ. Geol.*, v. 55, no. 8, 1761.)
- Krendeliev, F.P.
1974: Zonation of gold-sulphide mineralization in sedimentary-volcanogenic series of the Enisei Ridge; *Abstracts of Papers, Int. Assoc. Genesis Ore Deposits (IAGOD), 4th Symp., Varna, Bulgaria*, p. 106-107.
- Krendeliev, F.P., Mironov, A.G. and Gofman, A.M.
1976: Use of gamma-spectrometric methods in contouring ore zones in the trans-Baikal region; *Geol. Geofiz.* no. 8, p. 67-75. (Chem. Abstr., v. 86, 19674v.)
- Krendeliev, F.P. and Pavlov, A.L.
1972: The causes of the joint occurrence of gold and uranium in ore provinces; *in Radioaktivnye elementy v. gornykh porodakh (Radio-active elements in rocks)*, pt. 2, Novosibirsk, p. 22-23. *Also Ref. Zh. Geol.*, no. 11, 1972, 11B23.
- Krendeliev, F.P. and Pogrevniak, Iu. F.
1977: Possibility of searches for ore manifestations of gold and zinc according to their contents in birch sap; *Akad. Sci. USSR, Dokl.*, v. 234, p. 184-187.
- Krendeliev, F.P., Zozulenko, L.B. and Orlova, L.M.
1970: Temperature of homogenization and composition of gases in gas-fluid inclusions in pebbles from ancient conglomerates of sulphide type; *Fluid Inclusion Res., Proc. COFFI*, v. 3, p. 101-107.
- Kretschmar, U.
1973: Phase relations involving arsenopyrite in the system Fe-As-S and their application; unpubl. Ph.D. thesis, Univ. Toronto, Toronto, Ont., 146 p.
- Krieger, P.
1932: An association of gold and uraninite from Chihuahua, Mexico; *Econ. Geol.*, v. 27, p. 651-660.
- Krieger, P. and Hagner, A.F.
1943: Gold-nickel mineralization at Alistos, Sinaloa, Mexico; *Am. Mineral.*, v. 28, p. 257-271.
- Kripkov, A.J.
1969: Graphical plotting of the distribution of useful components in placers; *Vop. Geol. Mineral., Rud. Mestorozhd. Ukr.*, no. 3, p. 147-151. (Chem. Abstr., v. 77, 22967n.)
- Krook, L.
1968: Origin of the bedrock values of placer deposits; *Econ. Geol.*, v. 63, p. 844-846.
- Kropachev, C.K.
1935: The distribution of gold in nature; *Sovet. Zolotoprom.*, no. 8, p. 46-47. (Chem. Abstr., v. 32, 6980f.)
- Kruglov, G.P., Li, L.V. and Nelyubov, V.A.
1969: New type of gold ore mineralization in the Enisei Ridge; *Mater. Geol. Polez. Iskop. Krasnoyarsk. Kraia* no. 6, p. 114-119. (Chem. Abstr., v. 77, 22969q.)
- Krupka, K.M., Ohmoto, H. and Wickman, F.E.
1977: A new technique in neutron activation analyses of Na/K ratios of fluid inclusions and its application to the gold-quartz veins at the O'Brien Mine, Quebec, Canada; *Can. J. Earth Sci.*, v. 14, p. 2760-2770.
- Kryukov, V.D. and Tarasov, A.V.
1971: Prospecting for noble metal placer occurrences in the Noril'sk area; *Geol. Polez. Iskop. Noril'sk. Raiona, N.N. Urvantsev, ed., Nauch. Issled. Inst. Geol. Arktiki, Leningrad, U.S.S.R.*, p. 108-112. (Chem. Abstr., v. 77, 128993h.)
- Krylova, V.V.
1975: First find of native lead at a gold-silver deposit in the northeastern U.S.S.R.; *Akad. Nauk. SSSR, Dokl.*, v. 221, no. 2, p. 445-446. (Chem. Abstr., v. 83, 82743v.)
- Ksenofonotov, O.K. and Leonova, E.P.
1973: Akkargina gold deposit (western Turgai); *Vop. Geol. Genezisa Polez. Iskop.*, v. 3, p. 54-99. (Chem. Abstr., v. 82, 61966j.)
- Kubaschewski, O. and von Goldbeck, O.
1975: The thermochemistry of gold; *Gold Bull.*, v. 8, p. 80-85.
- Kucha, H.
1973: Organic gold compounds in copper-bearing shale of the Fore-Sudetic monocline; *Rudy Metale Niezelaz.*, v. 18, no. 6, p. 302-303. (Chem. Abstr., v. 80, 29298r.)
- Kudaibergenova, N.K.
1969: Near vein alterations in northern Kazakhstan gold deposits; *Akad. Nauk Kaz. SSR, Izv., Ser. Geol.*, v. 26, no. 6, p. 66-68. (Chem. Abstr., v. 72, 102515a.)
- Kudryavtseva, A.I.
1969: Regular characteristics in the distribution of gold in skarn minerals of the Tardansk deposit; *Mater. Geol. Tuvinskoi USSR*, no. 1, p. 68-71. (Chem. Abstr., v. 75, 51408v.)
- Kuikin, S.
1974: Distribution of gold ore and gold content of endogenic deposits in Bulgaria; *Abstracts of Papers, Int. Assoc. Genesis Ore Deposits (IAGOD), 4th Symp., Varna, Bulgaria*, p. 329-330.

- Kulikova, M.F.
 1962a: Trace elements in the oxidized zone of polymetallic deposits of eastern Transbaikalia; *Geochemistry*, no. 2, p. 176–185.
 1962b: Behaviour of indium in the oxidized zones of some polymetallic deposits of eastern Transbaikalia; *Geochemistry*, no. 7, p. 707–714.
 1964: Distribution of trace elements in the oxidized zone of some lead-zinc deposits of middle Asia; *Geochem. Int.*, nos. 1–6, p. 877–891.
 1966: Geochemistry of gallium and indium in the oxidized zone of lead-zinc deposits in Soviet Central Asia; *Geochem. Int.*, v. 3, p. 982–995.
- Kulikova, N.N.
 1972: Geochemistry of gases of gold-ore deposits of the Transbaikalian region; "Nauka", Moscow, U.S.S.R., 115 p. (*Chem. Abstr.*, v. 78, 114261b.)
- Kunaev, I.V.
 1963: On the zonal distribution of the rare-metal and gold metallization in the Northern Sikhote-Alin and the lower Amur region; *Symposium Problems of Postmagmatic Ore Deposition*, v. 1, Publ. House, Czech. Acad. Sci., p. 194–199.
- Kurauti, G.
 1941: Synthetic study of gold-containing pyrite; *Suiyokwai-Si*, v. 10, p. 419–424. (*Chem. Abstr.*, v. 35, 3563.)
- Kurbanayev, M.S.
 1966: Thallium in the dispersion aureoles of the Maykain gold-barite-polymetallic deposit; *Geochem. Int.*, v. 3, p. 568–572.
- Kurbanayev, M.S. and Atchibaev, K.A.
 1968: Problems of geological efficiency of aurimetric surveys; *Geol. Geokhim. Mineral. Zolotorud. Razved. Mestorozhd. Kaz.*, no. 1, p. 125–128. (*Chem. Abstr.*, v. 73, 27524t.)
- Kuryliw, C.J.
 1957: Cochenour Williams mine; *in Structural geology of Canadian ore deposits*, v. 2, Can. Inst. Min. Metall., Montreal, p. 295–304.
- Kushmuradov, O.K.
 1970: Notes on the gold content of sedimentary, metamorphic, and granitoid rocks of the North Nuratau Mountains; *Uzb. Geol. Zh.*, v. 14, no. 1, p. 8–11.
- Kushnarev, P.I. and Kashcheev, L.P.
 1974: Substantiation of parameters for sampling during the exploration of littoral-marine gold placers; *Izv. Vyssh. Ucheb. Zaved. Geol. Razved.*, v. 17, no. 1, p. 88–93. (*Chem. Abstr.*, v. 81, 66372b.)
- Kutina, J. and Stenprok, M., ed.
 1963: Symposium—Problems of postmagmatic ore deposition; 1965: vols. I and II, and Appendices I and II, Publisher Geol. Surv. Czech., Czech. Acad. Sci., Prague.
- Kutyukhin, P.I.
 1960: Significance of country rock alteration in exploration for blind gold-bearing veins in the Dzhetysay deposit; *Tr. Sver. Gorn. Inst.*, no. 35, p. 27–40. (*Chem. Abstr.*, v. 60, 1460e.)
- Kuznetsov, Yu. A.
 1973: New type of gold mineralization in the Donets Basin; *Mineral. Sb. (Lvov)*, v. 27, no. 3, p. 247–249. (*Chem. Abstr.*, v. 82, 61948e.)
- Kuznetsov, Yu. A., Kuznetsova, S.V., Metnik, M.A. and Sidenko, O.G.
 1973a: Florencite as an associated mineral of gold in the Bobrik ore manifestation in the Donets Basin; *Akad. Nauk SSSR, Dokl.*, v. 210, no. 3, p. 682–684. (*Chem. Abstr.*, v. 79, 68674j.)
- Kuznetsov, Yu. A., Kuznetsova, S.V., Samoilovich, L.G., Sidenko, O.G., Sharkin, O.P. and Yushin, A.A.
 1973b: New data on chemical composition and some physical properties of gold from the Nagol'nyi Ridge (Donbas); *U.S. Geol. Surv. Transl. from Konst. Svoistva Mineral.*, v. 7, p. 117–119.
- Kuznetsov, K.R. and Panifilov, R.V.
 1974: Silver deposits; *in Ore deposits of the U.S.S.R.*, V.I. Smirnov, ed., v. 3, Nedra Press, Moscow, p. 78–95.
- Kvyatkovskii, E.M.
 1963: Primary dispersion haloes of quartz-gold veins in the Lyubovinsk ore field (east Transbaikalia); *Zap. Leningrad. Gorn. Inst.*, v. 45, no. 2, p. 10–15. (*Chem. Abstr.*, v. 59, 11113f.)
- Kyuregyan, E.A. and Burnutyan, R.A.
 1972: Gold in the juice of plants and a method for its detection; *Akad. Nauk Arm. SSR, Izv., Nauki Zemle*, v. 25, no. 2, p. 83–85. (*Chem. Abstr.*, v. 81, 130520c.)
- Kyuregyan, E.A. and Eksuzyan, Ts. O.
 1974: Content of gold in the subsurface waters of some regions in the Armenian SSR; *Zap. Arm. Otd. Vses. Mineral. O-Va*, v. 7, p. 111–119. (*Chem. Abstr.*, v. 84, 35116d.)
- Lacomme, A. and Fontan, F.
 1974: Auriferous alluviums of Ariège on the Salat; *C.R. Congr. Natl. Soc. Savantes, Sec. Sci.* v. 96, p. 669–675. (*Chem. Abstr.*, v. 84, 92852q.)
- Lacroix, A.
 1922–1923: *Minéralogie de Madagascar*; 3 vols., A. Chalmel, éditeur, Paris.
- Laffitte, P., coordinator
 1968–1970: *Carte métallogénique de l'Europe*; *Int. Union Geol. Sci. and Int. Geol. Congr.*, Publ. by UNESCO and Bur. Rech. Géol. Minières (Fr.).
- Laffitte, P. et Rouveyrol, P.
 1964: Carte minière du globe sur fond tectonique; *Annal. des Mines*, no. 12, p. 25–51.
- Laipanov, Kh. Kh. and Sher, S.D.
 1971: Contribution to the study of metasomatic alterations of rocks of various composition near gold-bearing quartz veins; *Int. Geochem. Congr., Moscow, Abstr. II*, p. 542–543.
- Lajoie, J.P. et Fontelles, M.
 1968: Une gîte de skarns latéritisés: le gisement aurifère D'Ity (Côte-D'Ivoire); *Chron. Mines*, no. 373, p. 143–153.
- Lakes, A.
 1905: *Geology of western ore deposits*; Kendrick Book and Stationary Co., Denver, 438 p.
- Lakin, H.W.
 1969a: Trace elements in supergene sulfate minerals; *U.S. Geol. Surv., Circ.* 622, p. 4.
 1969b: Solution of gold by porphyry copper leach solutions; *U.S. Geol. Surv., Circ.* 622, p. 4.
- Lakin, H.W., Curtin, G.C. and Hubert, A.E.
 1971: Geochemistry of gold in the weathering cycle; *in Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds.; Can. Inst. Min. Metall., Spec. Vol. 11, p. 196.
- Lakin, H.W., Curtin, G.C., Hubert, A.E., Shacklette, H.T. and Dostader, K.G.
 1974: Geochemistry of gold in the weathering cycle; *U.S. Geol. Surv., Bull.* 1330, 80 p.
- Lakin, W.H. and Nakagawa, H.M.
 1965a: Simplified spectrophotometric determination for gold; *Eng. Min. J.*, v. 166, no. 10, p. 108–110.
 1965b: A spectrophotometric method for the determination of traces of gold in geological materials; *U.S. Geol. Surv., Prof. Pap.* 525-C, p. C168–C171.
- Lamb, J.
 1957: The French mine, Hedley, B.C.; *in Structural geology of Canadian ore deposits*, v. 2, Can. Inst. Min. Metall., Montreal, p. 47–50.
- Lamb, J., Bush, J.B. and Williams, C.T.
 1957: Nickel Plate mine, Hedley, B.C.; *in Structural geology of Canadian ore deposits*, v. 2, Can. Inst. Min. Metall., Montreal, p. 42–46.
- Lambert, I.B. and Sato, T.
 1974: The Kurokô and associated ore deposits of Japan: a review of their features and metallogenesis; *Econ. Geol.*, v. 69, p. 1215–1236.

- Lamey, C.A.
1966: Metallic and industrial mineral deposits; McGraw-Hill Book Co., New York, 567 p.
- Lancaster, F.H.
1973: The gold content of sea-water. Its extraction an unrealisable dream; *Gold Bull.*, v. 6, no. 4, p. 111.
- Landsberg, A. and Hoatson, C.L.
1970: The kinetics and equilibria of the gold-chlorine system; *J. Less-Common Metals*, v. 22, p. 327-339.
- Lang, A.H.
1933: Gold prospecting—Rouyn-Bell River region, Quebec; *Can. Min. J.*, v. 54, p. 267-272.
1948: Regional structure of Barkerville district; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 141-149.
1970: Prospecting in Canada, 4th ed; *Geol. Surv. Can., Econ. Geol. Rep. No. 7*, 308 p.
- Lang, A.H., Griffith, J.W. and Steacy, H.R.
1962: Canadian deposits of uranium and thorium; *Geol. Surv. Can., Econ. Geol., Ser. 16* (2nd ed.), 324 p.
- Langford, G.B.
1930: Beardmore-Nezah gold area, Ontario; *Econ. Geol.*, v. 25, p. 251-269.
- Langford, G.B. and Hancox, E.G.
1936: Hypogene anhydrite from McIntyre mine, Porcupine district, Ontario; *Econ. Geol.*, v. 31, p. 600-609.
- Langille, E.G.
1948a: Premier mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 121-124.
1948b: Geology of the Gold Drop mine, Portland Canal district; *Western Miner*, v. 21, no. 11, p. 48-50.
- Lantsev, I.P., Nikolaeva, L.A., Badalova, R.P. and Denisova, L.K.
1971: Distribution of trace elements in native gold from different deposits; *Tr. Tsent. Nauch. Issled. Gornorazved. Inst.*, no. 96 (pt. 1), p. 130-137. (*Chem. Abstr.*, v. 77, 78005q.)
- Lapo, M.S.
1971: Distribution features of gold in the effusive rocks of the Bolshaya Sitsa and Valenku River basins; *Vop. Geol. Rud. Mestorozhd. Dal'nego Vostoka*, G.I. Osipova, ed., *Akad. Nauk. SSSR, Dal'nevost. Geol.*, Vladivostok, U.S.S.R., p. 99-109. (*Chem. Abstr.*, v. 82, 19487d.)
- Large, R.R.
1974: Hydrothermal mineral zonation at the Juno mine, Tennant Creek goldfield, central Australia; *Econ. Geol.*, v. 69, p. 1183 (abstr.).
1975: Zonation of hydrothermal minerals at the Juno mine, Tennant Creek Goldfield, central Australia; *Econ. Geol.*, v. 70, p. 1387-1413.
1976: Zonation of hydrothermal minerals at the Juno mine, Tennant Creek goldfield, central Australia—a reply; *Econ. Geol.*, v. 71, p. 1615-1617.
- Large, R.R. and Mumme, W.G.
1975: Junoite, "Wittite", and related seleniferous bismuth sulfosalts from Juno mine, Northern Territory, Australia; *Econ. Geol.*, v. 70, p. 369-383.
- Larsen, E.S.
1930: Recent mining developments in the Creede district, Colorado; *U.S. Geol. Surv., Bull.* 811, p. 89-112.
- Lassiter, J.B.
1971: Some chemical aspects of the evolution and utilization of the Red Sea heavy metal deposits; *Am. Chem. Soc. Div. Water, Air, Waste Chem., Gen. Pap.*, v. 11, no. 2, p. 114-121.
- Latimer, W.M.
1952: Oxidation states of the elements and their potentials in aqueous solutions, 2nd ed.; Prentice-Hall Inc., Englewood Cliffs, N.J., 392 p.
- Latulippe, M.
1966: The relationship of mineralization to Precambrian stratigraphy in the Matagami Lake and Val d'Or districts of Quebec; *Geol. Assoc., Can., Spec. Pap.* 3, p. 21-42.
- Latysh, I.K. and Sidenko, O.G.
1967: Gold of the Bobrikovsk deposit (Nagolny Ridge, Donbas); *Konst. Svoistva Miner., Akad. Nauk Ukr. SSR, Respub. Mezhdoved. Sb.*, no. 2, p. 116-119. (*Chem. Abstr.*, v. 68, 61644p.)
- Latysh, I.K., Shirinbekov, N.K., Frolova, A.N., Solovits'kii, V.N., Vozgrin, B.R., Podanev, G.A. and Braevich, I.M.
1971: Gold content in the northwestern part of the Ukrainian crystalline shield; *Akad. Nauk Ukr. RSR, Dopov, Ser. B*, v. 33, no. 4, p. 305-306. (*Chem. Abstr.*, v. 75, 51603e.)
- Latysh, I.K., Ryabokon, V.V. and Kostyuchenko, V.S.
1974: Manifestation of gold in rocks of the Sob River Basin; *Geol. Zh.*, v. 34, no. 1, p. 148-149.
- Lau, J.W.E.
1970: Mineralogical study of the arsenical gold ore, Bau mining district, Sarawak, Malaysia; unpubl. B.Sc. thesis, Carleton Univ., Ottawa, 60 p.
- Laul, J.C., Case, D.R., Wechter, M., Schmidt-Bleek, F. and Lipschutz, M.E.
1970: An activation analysis technique for determining groups of trace elements in rocks and chondrites; *J. Radioanal. Chem.*, v. 4, p. 241-264.
- Laul, J.C., Ganapathy, R., Morgan, J.W. and Anders, E.
1972: Meteoritic and non-meteoritic trace elements in Luna 16 samples; *Earth Planet. Sci. Lett.* v. 13, no. 2, p. 450-454.
- Laul, J.C., Hill, D.W. and Schmitt, R.A.
1974: Chemical studies of Apollo 16 and 17 samples; in *Proc., 5th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 5, v. 2, p. 1047-1066.
- Laul, J.C., Morgan, J.W., Ganapathy, R. and Anders, E.
1971: Meteoritic material in lunar samples: characterization from trace elements; *Proc., 2nd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 2, v. 2, p. 1139-1158.
- Laul, J.C. and Schmitt, R.A.
1973a: Chemical composition of Apollo 15, 16, 17 samples; in *Proc., 4th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 4, v. 2, p. 1349-1367.
1973b: Chemical composition of Luna 20 rocks and soil and Apollo 16 soils; *Geochim. Cosmochim. Acta*, v. 37, no. 4, p. 927-942.
- Laur, F.
1906: Sur la présence de l'or et de l'argent dans le Trias de Meurthe-et Moselle; *C. R., Acad. Sci.*, v. 142, p. 1409-1412.
- Lawn, J.G.E.
1924: Presidential address on the subject of silver in Witwatersrand ores; *Geol. Soc. S. Afr., Proc.*, v. 27, p. 19-31.
- Lawson, A.C.
1913: The gold of the Shinarump at Paria; *Econ. Geol.*, v. 8, p. 434-448.
- Lavreau, J.J.
1973: New data about the Kilo-Moto gold deposits (Zaire); *Miner. Deposita (Berl.)*, v. 8, no. 1, p. 1-6.
- Lay, D.
1940: Fraser River Tertiary drainage-history in relation to placer-gold deposits; *B. C. Dep. Mines, Bull.*, no. 3, 30 p.
- Laznicka, P.
1973: Development of nonferrous metal deposits in geological time; *Can. J. Earth Sci.*, v. 10, p. 18-25.
- Leacock, S.
1932: If gold should cease to be "gold"; *Can. Inst. Min. Metall., Bull.*, v. 25, no. 244, p. 430-439.
- Learned, R.E. and Boissen, R.
1973: Gold—a useful pathfinder element in the search for porphyry copper deposits in Puerto Rico; in *Geochemical exploration 1972*, M.J. Jones, ed., *Inst. Min. Metall. (London)*, p. 93-103.
- LeBourdais, D.M.
1957: Metals and men; McClelland & Stewart, Ltd., Toronto, 416 p.

- Lee, H.A.
1963: Glacial fans in till from the Kirkland Lake Fault: a method of gold exploration; *Geol. Surv. Can., Pap.* 63-45, 36 p.
1965: 1. Investigation of eskers for mineral exploration; 2. Buried valleys near Kirkland Lake, Ontario; *Geol. Surv. Can., Pap.* 65-14, 20 p.
1971: Mineral discovery in the Canadian Shield using the physical aspects of overburden; *Can. Inst. Min. Metall., Bull.*, v. 64, no. 715, p. 32-36.
- Lee, J.K.
1974: Gold placers of the Sangjeon River basin, Gwangchon district, Chijil Kwangmul Chosa Yongu Pokoso, v. 2, no. 2, p. 161-170. (*Chem. Abstr.*, v. 83, 135156q.)
- Lee Moreno, J.L.
1974: Geochemical prospecting for epithermal precious metal veins in the vicinity of the Pachuca-Real del Monte (Mexico) (abstr.); *Mining Eng.*, v. 26, no. 8, p. 52.
- Legedza, V.Ya.
1966: Occurrences of chemogenic gold in sedimentary rocks; *Genet. Osob. Obsch. Zakonomer. Razved. Zolotoi Minér. Dal'nego Vostoka, Dal'nevost. Geol. Inst. Sib. Otd. Akad. Nauk SSSR*, p. 55-66. (*Chem. Abstr.*, v. 68, 23513n.)
1967: Role of diagenesis in the accumulation of gold in sulfides of certain sedimentary rocks; *Acad. Sci. USSR, Dokl.*, v. 172, p. 206-208 (*Am. Geol. Inst. transl.*).
- Leie, Yu. A. and Teplov, V.P.
1973: Neogene tectonomagmatic activation in the Transcarpathians and basic features of its metallogeny; *Metallog. Obl. Tektono-Magmat. Akt., Tezisy Dokl. Vses. Metallog. Soveshch.*, 7th, M.M. Odintsov, ed., *Akad. Nauk. SSSR, Sib., Otd., Inst. Zemnoi Kory: Irkutsk, U.S.S.R.* (*Chem. Abstr.*, v. 82, 127568q.)
- Leigh, R.W.
1964: The geology of the Dalny mine, southern Rhodesia; *in* The geology of some ore deposits in southern Africa, v. 2, S.H. Haughton, ed.; *Geol. Soc. S. Afr., Johannesburg*, p. 29-40.
- Lemos, J.C.
1974: Uranium and gold of the Serra da Jacobina; *Bol. Com. Nac. Energ. Nucl. (Brazil)*, v. 6, p. 1-24. (*Chem. Abstr.*, v. 84, 153313p.)
- Lenher, V.
1904: Solubility of gold in certain oxidizing agents; *J. Am. Chem. Soc.*, v. 26, p. 550-554.
1909: Some observations on the tellurides; *Econ. Geol.*, v. 4, p. 544-564.
1912: The transportation and deposition of gold in nature; *Econ. Geol.*, v. 7, p. 744-750.
1918: Further studies on the deposition of gold in nature; *Econ. Geol.*, v. 13, p. 161-184.
- Leo, G.W., Cox, D.P. and Carvalho, J.P.P.
1964: Geologia da parte sul da Serra de Jacobina, Bahia, Brasil; *Brasil Ministerio Minas e Energia, Dep. Nac. Prod. Miner., Bol.* 209, 87 p.
- Leo, G.W., Rose, H.J. and Warr, J.J.
1965: Chromian muscovite from the Serra de Jacobina, Bahia Brazil; *Am. Mineral.*, v. 50, p. 392-402.
- Leonard, B.F.
1973: Gold anomaly in soil of the West End Creek area, Yellow Pine district, Valley County, Idaho; *U.S. Geol. Surv., Circ.* 680, 16 p.
- LeRoy, L.W. and Koksoy, M.
1962: The lichen—a possible plant medium for mineral exploration; *Econ. Geol.*, v. 57, p. 107-111.
- Lesure, F.G.
1971: Residual enrichment and supergene transport of gold, Calhoun mine, Lumpkin County, Georgia; *Econ. Geol.*, v. 66, p. 178-186.
- Letnikov, F.A. *et al.*
1975: Evolution of fluids during formation of gold-bearing metamorphogenic quartz veins and possible forms of gold transfer; *Geokhim.*, no. 12, p. 1827-1836.
- Leushkina, G.V., Lobanov, E.M., Dutoy, A.G. and Matveeva, N.P.
1971: Determination of gold in biogeochemical samples based on a seven-second gold-197 isotope; *Neitronaktiv. Anal.*, p. 27-33. (*Chem. Abstr.*, v. 77, 13605r.)
- Leutwein, F.
1939: Über das Vorkommen einiger seltener Elemente in metamorphen Gesteinen des Schwarzwaldes; *Zentralbl. Mineral., Geol. Palaeontol., Abt. A*, no. 4, p. 123-128.
1951: Über das Vorkommen von gold in Thüringischen Alaun- und Kieselschiefern; *Hallesches Jahrb. Mitteldeut. Erdgeschich.*, Bd. 1, no. 2, p. 83-85.
- Levat, E.D.
1895: *L'or en Sibérie orientale*, Tomes 1 et 2, Paris, Édouard Rouveyre, Éditeur.
1903: Richesses Minérales des possessions Russes en Asie Centrale; *Ann. Mines, 10e Sér.*, v. 3, p. 181-354.
- Levington, K.R.
1972: Ore deposits and mines of the Charters Towers 1:250,000 sheet area, north Queensland; *Geol. Surv. Queensl., Rep.* 1972, no. 57, p. 1-103.
- Levinson, A.A.
1974: Introduction to exploration geochemistry; *Applied Publishing Ltd., Calgary*, 612 p.
- Li, L.V.
1974a: Gold-ore mineralization of southern Enisei Ridge; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, v. 144, p. 82-87. (*Chem. Abstr.*, v. 84, 76954u.)
1974b: Relation between formation of gold ore deposits and the processes of progressive regional metamorphism in the Enisei Ridge; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, v. 145, p. 102-103. (*Chem. Abstr.*, v. 83, 63547t.)
- Li, L.V. and Datsenko, V.M.
1973: The gold distribution in the granitoids of Proterozoic intrusions in the South Yenisey Ridge; *Geochem. Int.*, v. 10, no. 2, p. 649-655.
- Li, A.F. and Kop'eva, V.N.
1961: Rare elements in gold ores of eastern Siberia; *Sb. Nauch. Tr., Irkutskii Nauch. Issled. Inst. Redk. Metallov.*, no. 9, p. 35-41. (*Chem. Abstr.*, v. 57, 13435i.)
- Li, L.V. and Kornev, T.Y.
1972: Gold content in ultrabasic rocks of the Yenisey Ridge; *Geokhim.*, no. 11, p. 1397-1400. (*Geochem. Int.*, v. 9, p. 949-951.)
- Li, L., Mikheev, V.G. and Rukosuev, M.N.
1971: Probable formation temperature of arsenopyrite in gold deposits on the Yenisei Ridge according to data from x-ray investigations; *Geol. Rud. Mestorozhd.*, v. 13, no. 4, p. 108-112.
- Li, L.V., Nevolin, V.A. and Mikheev, V.G.
1974: Geological-mineralogical patterns and genetic features of a gold ore deposit of the Enisei Ridge; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, v. 145, p. 69-88. (*Chem. Abstr.*, v. 83, 135086s.)
- Li, L.V., Okhaphin, N.A., Shebanin, S.P. and Mikheev, V.G.
1974: Composition of element impurities in some deposits of the Enisei Ridge and other gold-bearing regions in the U.S.S.R.; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, v. 144, p. 108-115. (*Chem. Abstr.*, v. 84, 75957x.)
- Li, L.V. and Shokhina, O.I.
1974a: Behaviour of gold during processes of progressive regional metamorphism of Precambrian rocks of the Yenisei Mountain Ridge; *Geokhim.*, no. 3, p. 402-410.
1974b: Gold distribution in Proterozoic sedimentary-metamorphic rocks of the Enisei Ridge; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, no. 145, p. 27-37. (*Chem. Abstr.*, v. 83, 118885j.)

- Li, Tung and Yio, Chi-Lung
1966: The abundance of chemical elements in the earth's crust and its major tectonic units; *Sci. Sin.*, v. 15, no. 2, p. 258-272.
- Li-Ping, T. and Fang-Sung, Y.
1968: Heavy-mineral reconnaissance for gold and copper deposits of the Chinkuashih area, Taiwan; *Acta Geol. Taiwan.*, no. 12, p. 41-57. (Abstr. in UNESCO Min. Res. Dev. Ser., no. 38, 1970, p. 162.)
- Libby, F.
1969: Gold in the sea; *Sea Frontiers*, v. 15, no. 4, p. 232-241.
- Lidgey, E.
1897: Some indications of ore deposits; *Australas. Inst. Min. Eng., Trans.*, v. 4, p. 110-120.
- Liebenberg, W.R.
1955: The occurrence and origin of gold and radioactive minerals in the Witwatersrand System, the Dominion Reef, the Ventersdorp Contact Reef, and the Black Reef; *Geol. Soc. S. Afr., Trans.*, v. 58, p. 101-254.
- Liffa, A.
1965: Geology of the metallic deposits near Telkibánya; *Magy. Allami Földt. Intérz. Évk.*, v. 42, p. 211-259 (in Hungarian; French summary).
- Lightfoot, B.
1930: Gold resources of southern Rhodesia; in *The Gold resources of the world*; 15th Int. Geol. Congr., Pretoria, 1929, p. 351-366.
- Lincoln, F.C.
1911a: Types of Canadian gold deposits; *Eng. Min. J.*, v. 91 p. 470-472.
1911b: Certain natural associations of gold; *Econ. Geol.*, v. 6, p. 247-302.
- Lindahl, T.
1970: The crystal structure of Au_6Hg_5 ; *Acta Chem. Scand.*, v. 24, p. 946-952.
- Lindgren, W.
1894: An auriferous conglomerate of Jurassic age from the Sierra Nevada; *Am. J. Sci.*, ser. 3, v. 47, p. 275-280.
1895: Characteristic features of California gold-quartz veins; *Geol. Soc. Am., Bull.*, v. 6, p. 221-240.
1896: The gold-quartz veins of Nevada City and Grass Valley districts, California; *U.S. Geol. Surv., 17th Annu. Rep.*, pt. 2, p. 1-262.
1901: Metasomatic processes in fissure-veins; *Am. Inst. Min. Eng., Trans.*, v. 30, p. 578-692.
1902: Test for gold and silver in shales from western Kansas; *U.S. Geol. Surv., Bull.* 202, 21 p.
1905-1906: Metasomatic processes in the gold deposits of western Australia; *Econ. Geol.*, v. 1, p. 530-544.
1906: Occurrence of albite in the Bendigo veins; *Econ. Geol.*, v. 1, p. 163-166.
1909: Metallogenetic epochs; *Econ. Geol.*, v. 4, p. 409-420.
1910: The hot springs of Ojo Caliente and their deposits; *Econ. Geol.*, v. 5, p. 22-27.
1911: The Tertiary gravels of the Sierra Nevada of California; *U.S. Geol. Surv., Prof. Pap.* 73, 226 p.
1915: Processes of mineralization and enrichment in the Tintic mining district; *Econ. Geol.*, v. 10, p. 225-240.
1917: Gold and silver deposits in North and South America; *Am. Inst. Min. Metall. Eng., Trans.*, v. 55, p. 883-909.
1920: Vein filling at Bendigo, Victoria; *Econ. Geol.*, v. 15, p. 312-314.
1927: Magmas, dikes, and veins; *Am. Inst. Min. Metall. Eng., Trans.*, v. 74, p. 71-126.
1933: Mineral deposits, 4th ed.; McGraw-Hill Book Co., Inc., New York, 930 p.
1937: Succession of minerals and temperatures of formation in ore deposits of magmatic affiliations; *Am. Inst. Min. Metall. Eng., Trans.*, v. 126, p. 356-376.
- Lindgren, W. and Bancroft, H.
1914: Republic (Eureka) district; *U.S. Geol. Surv., Bull.* 550, p. 133-166.
- Lindgren, W. and Ransome, F.L.
1906: Geology and gold deposits of the Cripple Creek district, Colorado; *U.S. Geol. Surv., Prof. Pap.* 54, 516 p.
- Lindsey, D.A.
1972: Sedimentary petrology and paleocurrents of the Harebell Formation, Pinyon conglomerate, and associated coarse clastic deposits, northwestern Wyoming; *U.S. Geol. Surv., Prof. Pap.* 734-B, 68 p.
- Linn, T.A. and Moore, C.B.
1968: Neutron activation determination of gold in iron meteorites and inclusions; *Earth Planet. Sci. Lett.*, v. 3, no. 5, p. 453-456.
- Lipman, P.W., Fisher, F.S., Mehnert, H.H., Naeser, C.W., Luedke, R.G. and Steven, T.A.
1976: Multiple ages of mid-Tertiary mineralization and alteration in the western San Juan Mountains, Colorado; *Econ. Geol.* v. 71, p. 571-588.
- Lishmund, S.R.
1973: Upper Hunter gold field; *Geol. Surv. N.S.W., Rec.*, v. 15, no. 2, p. 109-162.
- Listova, L.P., Vainshtein, A.Z. and Ryabinina, A.A.
1966: Dissolution of gold in media forming during oxidation of some sulphides; *Metallogen. Osad. Osad. Metamorf. Porod, Akad. Nauk SSSR, Lab. Osad. Polez. Iskop.*, p. 189-199. (Chem. Abstr., v. 68, 88967h.)
- Little, H.W.
1959: Tungsten deposits of Canada; *Geol. Surv. Can., Econ. Geol. Ser.*, no. 17, 251 p.
1960: Nelson map-area, west half, British Columbia; *Geol. Surv. Can., Mem.* 308, 205 p.
- Little, H.W., Smith, E.E.N. and Barnes, F.Q.
1972: Uranium deposits of Canada; 24th Int. Geol. Congr., Montreal, Field Excursion C67 Guidebook, 64 p.
- Littlepage, J.D. and Bess, D.
1938: In search of Soviet gold; Harcourt, Brace and Co., New York, 310 p.
- Litvinov, V.L., Lyakhov, Yu.V. and Popivnyak, I.V.
1970: Paleotemperature zoning in the Kariyskoye gold deposit; *Geol. Rud. Mestorozhd.*, no. 5, p. 96-101.
- Liversidge, A.
1893a: On the origin of moss gold; *J. R. Soc. N.S.W.*, v. 27, p. 287-298.
1893b: On the condition of gold in quartz and calcite veins; *J. R. Soc. N.S.W.*, v. 27, p. 299-303.
1893c: On the origin of gold nuggets; *J. R. Soc. N.S.W.*, v. 27, p. 303-343.
1893d: On the crystallization of gold in hexagonal forms; *J. R. Soc. N. S. W.*, v. 27, p. 343-346.
1897a: Presence of gold in natural saline deposits and marine plants; *J. Chem. Soc. (London)*, v. 71, p. 298-299.
1897b: The crystalline structure of gold and platinum nuggets and gold ingots; *J. Chem. Soc. (London)*, v. 71, p. 1125-1131.
- Lloyd-Jacob, D.
1971: The role of gold in industry; *Gold Bull.*, v. 4, no. 2, p. 25-29, Publ., Chamber Mines S. Afr., Johannesburg.
- Lobanov, E.M., Khatamov, Sh. and Khamidova, R.V.
1967a: Determination of gold in biological and geological objects by neutron activation without a chemical decomposition; *Aktiv Anal. Gorn. Porod Drugikh Ob'ektov* p. 147-157. (Chem. Abstr., v. 69, 631f.)
- Lobanov, E.M., Khatamov, Sh. and Kist, A.A.
1967b: Radiochemical and preliminary extraction of gold in neutron activation analyses from samples of plants and geological materials; *Aktiv. Anal. Gorn. Porod Drugikh. Ob'ektov*, p. 158-166. (Chem. Abstr., v. 68, 119123m.)
- Lobanov, E.M., Khatamov, Sh. and Talipov, R.M.
1966: Efficiency of neutron activation logging during biogeochemical prospecting for gold ore deposits (in central Kazakhstan); *Uzb. Geol. Zh.*, v. 10, p. 49-54. (Chem. Abstr., v. 69, 29220g.)

- Lock, A.G.
1882: Gold; its occurrence and extraction; E. & F.N. Spon Publishers, London, 1229 p.
- Lodder, W.
1966: Gold-alunite deposits and zonal wall-rock alteration near Rodalquilar, S.E. Spain; Univ. Amsterdam Geol. Inst., Mededling, no. 318, 93 p.
- Logan, W.E., Murray, A., Hunt, T.S. and Billings, E.
1863: Geology of Canada; Dawson Brothers, Montreal, 983 p.
- Loginov, V.N.
1972: Minerals of the oxidation zone of a gold-antimony deposit in the southern Transurals; Tr. Sver. Gorn. Inst., v. 86, p. 101-105. (Chem. Abstr., v. 83, 13370j.)
- Loginova, L.A.
1972: Hydrogeochemical criteria for ore prospecting; Gidrogeol. SSSR, no. 15, A.B. Sidorenko, ed., "Nedra", Moscow, p. 261-264.
- Lombardi, O.W.
1964: Di- β -naphthylthiocarbazone (Dinaphthizone) compared with dithizone as an analytical reagent for the determination of trace metals in natural waters; Anal. Chem., v. 36, no. 2, p. 415-418.
- Longley, C.S. and Lazier, T.A.
1948: Paymaster mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 520-528.
- Longridge, C.C.
1913: Gold and tin dredging; Min. J., London, 425 p.
- Lonsdale, J.T.
1927: Geology of the gold-pyrite belt of the Northeastern Piedmont, Virginia; Va., Geol. Surv., Bull. 30, 110 p.
- Lopez, J.S. *et al.*
1968: La rodalquilarite, chlorotellurite de fer, une nouvelle espèce minérale; Soc. Fr. Minéral. Cristallogr., Bull., v. 91, p. 28-33.
- Lord, C.S.
1941a: The Thompson-Lundmark gold mines; The Miner, v. 14, no. 12, p. 31-33.
1941b: Mineral industry of the Northwest Territories; Geol. Surv. Can., Mem. 230, 136 p.
1949: Firth River gold; Arctic, v. 2, no. 2, p. 125-126.
1951: Mineral industry of District of Mackenzie, Northwest Territories; Geol. Surv. Can., Mem. 261, 336 p.
- Loshchinin, V.P.
1971: Distribution of gold in the Precambrian formations of Taskazgan rhythmic suites in Taskazgan (Tamdytau); Uzb. Geol. Zh., v. 15, no. 5, p. 62-65.
- Loughlin, G.F. and Koschmann, A.H.
1935: Geology and ore deposits of the Cripple Creek District, Colorado; Colo. Sci. Soc., Proc., v. 13, no. 6, 435 p.
- Louis, H.
1934: Mineral deposits; E. Benn., Ltd., London, 384 p.
- Lounamaa, J.
1956: Trace elements in plants growing wild in different rocks in Finland; Annu. Bot. Soc. Zoo. Bot. Fenn. 'Vanamo', v. 29, no. 4, p. 1-195.
- Lovering, T.G. and Heyl, A.V.
1974: Jasperoid as a guide to mineralization in the Taylor mining district and vicinity near Ely, Nevada; Econ. Geol., v. 69, no. 1, p. 46-58.
- Lovering, T.G., Lakin, H.W. and Hubert, A.E.
1968: Concentration and minor element association of gold in ore-related jasperoid samples; U.S. Geol. Surv., Prof. Pap. 600-B, p. B112-B114.
- Lovering, T.G., Lakin, H.W. and McCarthy, J.H.
1966: Tellurium and mercury in jasperoid samples; U.S. Geol. Surv., Prof. Pap. 550-B, p. 138-141.
- Lovering, T.S.
1950: The geochemistry of argillic and related types of rock alteration; Colo. Sch. Mines, Q., v. 45, no. 1B, p. 231-260.
- Lovering, T.S. *et al.*
1949: Rock alteration as a guide to ore—East Tintic District, Utah; Econ. Geol., Monogr. 1, 64 p.
- Lovering, T.S. and Goddard, E.N.
1950: Geology and ore deposits of the Front Range, Colorado; U.S. Geol. Surv., Prof. Pap. 223, 318 p.
- Low, A.P.
1906: The cruise of the Neptune; Gov. Print. Bur., Ottawa, 355 p.
- Lowell, W.R.
1942: The paragenesis of some gold and copper ores of southwestern Oregon; Econ. Geol., v. 37, p. 557-595.
- Lucio, A. and Gaines, R.V.
1973: Minerals of the Morro Velho gold mine, Brazil; Mineral. Rec., v. 4, no. 5, p. 224-229. (Chem. Abstr., v. 80, 39223b.)
- Lunde, G.
1927: Über das Vorkommen des Platins in norwegischen Gesteinen und Mineralen; Z. Anorg. Allg. Chem., Bd. 161, p. 1-20.
- Lunde, G. and Johnson, M.
1928: Vorkommen und Nachweis der Platinmetalle in norwegischen Gesteinen, II; Z. Anorg. Allg. Chem., Bd. 172, p. 167-195.
- Lunev, B.S. and Utkin, R.E.
1973: Explorations for fine gold; Uch. Zap., Permsk. Gos. Univ. v. 266, p. 116-130. (Chem. Abstr., v. 81, 138570q.)
- Lungwitz, E.E.
1900a: The lixiviation of gold deposits by vegetation; Eng. Min. J., v. 69, p. 500-502.
1900b: Der geologische Zusammenhang von Vegetation und Goldlagerstätten; Zeit. Prakt. Geol., v. 8, p. 71-74.
- Lupander, K. and Räisänen, W.K.
1954: The Haveri mine; in The mines and quarries of Finland, E. Aurola, ed., Geol. Tutkimuslaitos Geotek. Julk. no. 55, p. 47-52.
- Luttrell, G.W.
1966: Base-and-precious-metal and related ore deposits of Virginia; Va., Div. Miner. Resour., Miner. Resour. Rep. 7, 167 p.
- Lyakhov, Yu. V.
1975: Temperature zoning of the Darasun deposit; Geol. Rud. Mestorozhd., v. 17, no. 2, p. 28-36.
- Lyalikova, N.N. and Kulikova, M.F.
1969: Bacterial oxidation of germanium-bearing sulfides; Acad. Sci. USSR, Dokl., v. 184, Earth Sci. Sec., p. 189-191.
- Lyalikova, N.N. and Mokeicheva, L.Ya.
1969: The role of bacteria in gold migration in deposits; Microbiology, v. 38, no. 5 (transl. by Consultants Bureau, N.Y.), p. 682-686.
- Maag, R.
1975: History of gold; Mineralienfreund, v. 13, no. 2, p. 17-23.
- Macadam, P.
1931: The distribution of gold and carbon in the Witwatersrand bankets; Geol. Soc. S. Afr., Trans. (Annex.), v. 34, p. 81-88.
1936: The heavier metals and minerals in the Witwatersrand banket; Geol. Soc. S. Afr., Trans., v. 39, p. 77-79.
- MacArthur, D.M.
1972: Gold reduction and oxidation in aqueous solutions; J. Electrochem. Soc., v. 119, no. 6, p. 672-677. (Chem. Abstr., v. 77, 28197h.)
- MacDiarmid, R.A.
1963: The application of thermoluminescence to geothermometry; Econ. Geol., v. 58, p. 1218-1228.
- MacDougall, J.B.
1946: Two thousand miles of gold; from Val d'Or to Yellowknife; McClelland & Stewart, Ltd., Toronto, 234 p.

- MacGregor, A.M.
1928: The geology of the country around the Lonely Mine, Bubi District: Geol. Surv. S. Rhodesia, Bull. no. 11, 96 p.
1951: The primary source of gold; S. Afr., J. Sci., v. 47, no. 6, p. 157-161.
- Machairas, G.
1963: Etude des phénomènes de migration chimique de l'or. Cas de la Guyanne Française et d'Ity en Côte-d'Ivoire; Soc. Fr. Minéral. Cristallogr., Bull., v. 86, p. 78-80.
1967: Dissolution et recristallisation de l'or primaire pendant l'oxydo-réduction des sulfures aurifères; Bur. Rech. Geol. Min. (Fr.), Bull., no. 5, p. 111-121.
1970a: Contribution à l'étude, minéralogique et métallogénique de l'or; Bur. Rech. Geol. Min. (Fr.), Bull. (2^e Sér.), Sec. 2, no. 3, p. 1-109.
1970b: Association des inclusions fluides et des petcules d'or dans le quartz aurifère; Schweiz. Mineral. Petrog. Mitt. v. 50, pt. 1, p. 167-171.
- MacKay, B.R.
1921: Beauceville map-area, Quebec; Geol. Surv. Can., Mem. 127, 105 p.
- MacKay, R.A.
1946: The control of impounding structures on ore deposition; Econ. Geol., v. 41, p. 13-46.
- MacKay, R.A.C.
1944: Purity of native gold as a criterion for secondary enrichment; Econ. Geol., v. 39, p. 56-68.
- MacKevett, E.M. and Smith, J.G.
1968: Distribution of gold, copper and some other metals in the McCarthy B-4 and B-5 quadrangles, Alaska; U.S. Geol. Surv., Circ. 604, 25 p.
- Maclaren, J.M.
1906: The source of the waters of geysers; Geol. Mag., v. 3, p. 511-514.
1908: Gold, its geological occurrence and geographical distribution; Mining J., London, 687 p.
- Maclean, T.A.
1914: Lode mining in Yukon; Can. Dep. Mines, Mines Br., Publ. no. 222, 205 p.
- Maconachie, R.J.
1940: Lode-gold deposits, Upper Lemon Creek area and Lyle Creek-Whitewater Creek area, Kootenay district; B. C. Dep. Mines, Bull. no. 7, 50 p.
- Macpherson, E.O.
1933: Gold-bearing conglomerates of Central Otago; N.Z. Dep. Sci. Ind. Res., Bull. 40, p. 262-274. Also N.J., J. Sci. Technol., v. 14, p. 262-274.
- Magakian, I.G.
1952: Metallogenic specializations in tectono-magmatic complexes; Zap. Vses. Mineral. Obshchest., v. 81, p. 169-174. (Chem. Abstr., v. 47, 452d.)
1972: The complexes (series) of ore formations in different types of U.S.S.R. ore provinces; 24th Int. Geol. Congr., Sec. 4, Mineral deposits, Montreal, p. 60-64.
- Mahrholz, W.W. and Slaughter, A.L.
1967: Research on geochemical exploration underground; Min. Congr. J., v. 53, p. 42-46, 48-49.
- Makarov, V.N.
1972: Hydrogeochemical prospecting for gold-antimony mineralization (as exemplified by northeastern Yakutia); in Nov. Dannye Metallogen. Geol. Str. Yano-Kolym'skogo Mezhdurech'ya, M.I. Rabkin, ed., p. 141-143. (Chem. Abstr., v. 79, 148086j.)
- Malakhov, A.A.
1970: Tien-Shan endogenous gold ore formations; in Osn. Probl. Metallogen. Tyan-Shanya, Tr. Vses. Metallogen. Soveshch. 5th, 1968, M.M. Adyshev, ed., p. 413-416. (Chem. Abstr., v. 77, 22844v.)
- Malcolm, W.
1912: Gold fields of Nova Scotia; Geol. Surv. Can., Mem. 20-E, 324 p.
- Malcolm, W. and Faribault, E.R.
1929: Gold fields of Nova Scotia; Geol. Surv. Can., Mem. 156, 253 p. Also Geol. Surv. Can., Mem. 385 (Mem. 156 repr.).
- Malcolmson, J.W.
1907: The history of gold and silver; Eng. Min. J., v. 84, p. 1021-1023.
- Malissa, H., Hermann, F., Kluger, F. and Kiesel, W.
1972: Chemical and microprobe investigations of the Allende-meteorite; Mikrochim. Acta, pt. 3, p. 434-450.
- Mallet, J.W.
1887: On the occurrence of silver in volcanic ash from the eruption of Cotopaxi of July 22nd and 23rd, 1885; Proc., R. Soc., v. 42, p. 1-3.
1890: On a second case of the occurrence of silver in volcanic dust, namely in that thrown out in the eruption of Tunguragua in the Andes of Ecuador, January 11th, 1886; Proc., R. Soc., v. 47, p. 227-281.
- Malouf, S.E. and Hinse, R.
1957: Campbell Chibougamau mines; in Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 441-449.
- Malouf, S.E. and Thorpe, W.
1957: Chibougamau Explorers mine; in Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 449-454.
- Maltizov, A.G. and Tyutrin, I.I.
1971: Geological-geomorphological premises of gold placer deposits and development trends in exploration and prospecting in Sakhalin; Geol. Polez. Iskop. Sakhalina Kuril'skikh Ostrovov, I.I. Tyutrin, ed., Sakhalin. Territ. Geol. Upr., Yuzhno-Sakhalinsk, U.S.S.R., p. 59-68. (Chem. Abstr., v. 81, 66450a.)
- Malyuga, D.P.
1964: Biogeochemical methods of prospecting; Acad. Sci. USSR, 205 p. (Engl. transl. by Consultants Bur. Enterprises, Inc., New York.)
- Mandy, J.T.
1934: Gold bearing black-sand deposits of Graham Island, Queen Charlotte Islands; Can. Inst. Min. Metall., Trans., v. 37, p. 563-572.
- Manskaya, S.M. and Drozdova, T.V.
1968: Geochemistry of organic substances; Pergamon Press, Oxford, 345 p.
- Mantei, E., Bolter, E. and Al Shaieb, Z.
1970: Distribution of gold, silver, copper, lead and zinc in the productive Marysville stock, Montana; Miner. Deposita (Berl.), v. 5, p. 184-190.
- Mantei, E.J. and Brownlow, A.H.
1967: Variation in gold content of minerals of the Marysville quartz diorite stock, Montana; Geochim. Cosmochim. Acta, v. 31, p. 225-235.
- Marakushev, A.A.
1977: Geochemical properties of gold and conditions of its endogenic concentration; Miner. Deposita (Berl.), v. 12, p. 123-141.
- Marinenko, J. and May, I.
1968: Fluorometric determination of gold in rocks with rhodamine B; Anal. Chem., v. 40, no. 7, p. 1137-1139.
- Markham, N.L.
1960: Synthetic and natural phases in the system Au-Ag-Te; Econ. Geol., v. 55, p. 1148-1178, 1460-1477.
- Markova, E.A.
1967: Occurrence of volynskite in the gold ore deposit of central Asia; Zap. Vses. Mineral. Obshchest., v. 96, no. 3, p. 324-326. (Chem. Abstr., v. 67, 92662b.)
- Markward, E.L.
1961: Geochemical prospecting abstracts, January 1955-June 1957; U.S. Geol. Surv., Bull. 1098-B, p. 57-160.
- Marmo, V.
1960: On the sulphide and sulphide-graphite schists of Finland; Finl., Comm. Géol., Bull. no. 190, 80 p.

- Marques de Almeida Rolff, P.A.
1944: Gold in pegmatites of northeast Brazil; *Min. Metal.*, v. no. 8, p. 61–62. (Chem. Abstr., v. 39, 256.)
- Marshall, C.E.
1964: The physical chemistry and mineralogy of soils; John Wiley & Sons, Inc., New York, 388 p.
- Marshall, P.
1918: The geology of the Tuapeka District; *N.Z., Geol. Surv., Bull.*, no. 19, 79 p.
- Martinet, R.
1959: Dosages semi-quantitatifs par confined spot de traces de métaux dans les sols As-Ni-Cu-Pb-Zn-Au; *Symp. Explor. Geoquímica* v. 2, 20th Int. Geol. Congr., Mexico, 1956, p. 403–413.
- Martinet, R. and Cuper, J.
1961: Dosage rapide de l'or dans les sols, les minerais et les eaux; Dosage rapide de l'or dans les latérites; *Bur. Rech. Géol. Min. (Fr.)*, *Bull.* 2, p. 47–66.
- Martynov, Yu. T., Semenov, G.S., Sulin, V.V., Shatsov, A.H. and Shorikov, S.I.
1972: Application of nuclear physical methods for the study of rock, ore, and mineral samples. Estimation of the titanium, zirconium, and hafnium contents in samples of recent placers of the Baltic Sea by gamma-activation methods; *Tr. Vses. Nauch. Issled. Inst. Yad. Geofiz. Geokhim.*, no. 13, p. 32–38. (Chem. Abstr., v. 80, 10045j.)
- Maslenitsky, I.
1944: On some cases of formation of disperse gold segregations in iron sulphides, *C. R. Acad. Sci. USSR, Dokl.*, v. 14, no. 9, p. 385–388.
- Maslov, Yu. S.
1974: Geological-geomorphological premises of the formation of gold- and tin-bearing marine placer deposits of the Chuan Bay; *Sov. Geol.*, no. 8, p. 117–122. (Chem. Abstr., v. 82, 62036t.)
- Mason, B.
1962: *Meteorites*; John Wiley & Sons, Inc., New York, 274 p.
1966: *Principles of geochemistry*, 3rd ed.; John Wiley & Sons, Inc., New York, 329 p.
- Mason, B., ed.
1971: *Handbook of elemental abundances in meteorites*; Gordon and Breach Science Publishers, New York, 555 p.
- Masson, D.L.
1962: Plants for geobotanical prospecting—indicator and accumulator plants used for sampling for geochemical prospecting; *Wash. St. Inst. Technol., Circ.* 1, 9 p.
- Mather, W.B.
1937: Geology and paragenesis of gold ores of the Howey mine, Red Lake, Ontario; *Econ. Geol.*, v. 32, p. 131–153.
- Mather, A.L.
1959: Geochemical prospecting studies in Sierra Leone; D.I.C. thesis, Univ. London, Imperial College Sci. Technol.
- Matheson, A.F.
1948a: Bankfield and Tombill mines; *in Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 401–406.
1948b: Jellicoe mine; *in Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 399–401.
1956: The St. John Del Ray Mining Company, Limited, Minas Geraes, Brazil; *Can. Inst. Min. Metall. Bull.*, v. 49, no. 525, p. 37–43.
- Matheson, A.F. and Douglas, J.H.
1948: Hard Rock mine; *in Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 406–413.
- Mathews, W.H.
1944: Lode-gold deposits, south-eastern British Columbia; *B.C. Dep. Mines, Bull.* no. 20, pt. 2, 19 p.
- Matkovskii, O.I., Yasinskaya, A.A. and Razumeeva, N.N.
1974: New type of gold ore mineralization in the Transcarpathians; *Akad. Nauk. Ukr. RSR, Dopov.*, Ser. B, v. 36, no. 12, p. 1074–1077. (Chem. Abstr., v. 82, 142835t.)
- Matsukuma, T.
1962: Gold and silver deposits and their ores in Kyushu, Japan; *J. Min. College Akita Univ.*, Ser. A, v. 2, p. 20–59.
- Matsukuma, T. and Horikoshi, E.
1970: Kurokô deposits in Japan, a review; *in Volcanism and ore genesis*, T. Tatsumi, ed., Univ. Tokyo Press, p. 153–179.
- Matveenko, V.T.
1973: Regional regularities in the formation in time and distribution in space of gold ore mineralization in the north-western part of the Pacific Ocean Tectonic Belt; *Zakonomen. Razmeshcheniya Polez. Iskop.*, v. 10, p. 213–229. (Chem. Abstr., v. 80, 72783g.)
- Mauer, W. and Pose, H.
1943: Neutronenemission des Urankerns als Folge seiner spontanen Spaltung; *Z. Phys.*, Bd. 121, p. 285–292.
- Mawdsley, J.B.
1938: Late gold and some of its implications; *Econ. Geol.*, v. 33, p. 194–210.
1948: Red Lake Gold Shore mine; *in Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 334–340.
- Mazzucchelli, R.H.
1965: Geochemical dispersion related to gold mineralization, Western Australia; unpubl. Ph.D. thesis, R. Sch. Mines, Imperial College, Univ. London, London, U.K.
- Mazzucchelli, R.H. and James, C.H.
1966: Arsenic as a guide to gold mineralization in laterite-covered areas of Western Australia; *Inst. Min. Metall., Trans., Sec. B*, v. 75, p. B286–B294; *Disc.*, v. 75, p. B127–B129; reply by authors, v. 76, p. B218.
- McAndrew, J.
1965: Gold deposits of Victoria; *in 8th Commonw. Min. Metall. Congr., Australia and New Zealand*, v. 1, *Geology of Australian ore deposits*, 2nd ed. J. McAndrew, ed., p. 450–456.
- McCann, W.S.
1922: The gold-quartz veins of Bridge River District, B.C. and their relationship to similar ore-deposits in the Western Cordilleras; *Econ. Geol.*, v. 17, p. 350–369.
- McCarthy, J.H.
1972: Mercury vapour and other volatile components in the air as guides to ore deposits; *J. Geochem. Explor.*, v. 1, p. 143–162.
- McCarthy, J.H., Learned, R.E., Botbol, J.M., Lovering, T.G., Watterson, J.R. and Turner, R.L.
1969a: Gold-bearing jasperoid in the Drum Mountains, Juab and Millard counties, Utah; *U.S. Geol. Surv., Circ.* 623, 4 p.
- McCarthy, J.H., Vaughn, W.W., Learned, R.E. and Meuschke, J.L.
1969b: Mercury in soil gas and air—a potential tool in mineral exploration; *U.S. Geol. Surv., Circ.* 609, 16 p.
- McCauley, C.K. and Butler, J.R.
1966: Gold resources of South Carolina; *South Carolina Div. Geol., Bull.* 32, 78 p.
- McConnell, G.W.
1964a: Yellowknife gold-quartz deposits; *Econ. Geol.*, v. 59, p. 328–330.
1964b: Notes on similarities between some Canadian gold deposits and the Homestake deposits of South Dakota; *Econ. Geol.*, v. 59, p. 719–720.
- McConnell, R.G.
1905: Report on the Klondike gold fields; *Geol. Surv. Can., Annu. Rep.*, pt. B, v. 14, p. 1–71. *Also Geol. Surv. Can. Mem.* 284, p. 64–113.
1907: Report on gold values in the Klondike high level gravels; *Geol. Surv., Can. Rep.* No. 979, 34 p. *Also Geol. Surv. Can., Mem.* 284, p. 217–238.

- McDougall, D.J.
1964: A review of thermoluminescence as applied to mineral exploration and rock mechanics; *Can. Min. J.*, v. 85, no. 3, p. 50-54.
1966: A study of the distribution of thermoluminescence around an ore deposit; *Econ. Geol.*, v. 61, p. 1090-1103.
1968: Thermoluminescence of geological materials; Academic Press, London and New York, 678 p.
- McGerrigle, H.W.
1936: Gold placer deposits of the Eastern Townships; *Que. Bur. Mines, Annu. Rep.*, 1935, pt. E, 65 p.
- McIlroy, R.J.
1951: The plant glycosides; Edward Arnold & Co., London, 138 p.
- McIntosh, R.
1948: Madsen Red Lake Mine; *in* Structural geology of Canadian ore deposits, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 328-334.
- McKay, Alexander
1903: Gold deposits of New Zealand; John Mackay, Government Printer, Wellington, 75 p.
- McKay, G.A., Cormie, A.M. and Coulson, C.J.
1948: Leitch mine; *in* Structural geology of Canadian ore deposits, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 385-389.
- McKee, E.H. *et al.*
1974: Guidebook to the geology of four Tertiary volcanic centers in central Nevada; *Nev. Bur. Mines, Geol. Rep.* 19, 72 p.
- McKelvey, V.E. and Wang, F.F.H.
1970: World subsea mineral resources; *U.S. Geol. Surv.*, Map 1-632.
- McKinney, J.S. *et al.*
1964: Geology of the Anglo American group mines in the Welkom Area, Orange Free State Goldfield; *in* The geology of some ore deposits in southern Africa, v. 1, S.H. Haughton, ed.; *Geol. Soc. S. Afr.*, Johannesburg, p. 451-506.
- McKinstry, H.E.
1948: Mining geology; Prentice-Hall, Inc., New York, 680 p.
1957: Source of iron in pyritized wall rocks; *Econ. Geol.*, v. 52, p. 739-754.
- McKinstry, H.E. and Kennedy, G.C.
1957: Some suggestions concerning the sequence of certain ore minerals; *Econ. Geol.*, v. 52, p. 379-390.
- McKinstry, H.E. and Ohle, E.L.
1949: Ribbon structure in gold-quartz veins; *Econ. Geol.*, v. 44, p. 87-109. (Disc. by E.Y. Dougherty, *Econ. Geol.*, v. 45, p. 177-179.)
- McLaren, D.C.
1944: A story of gold; *Can. Min. J.*, v. 65, no. 7, p. 447-452.
- McLaughlin, D.H.
1931: The Homestake enterprise—ore genesis and structure; *Eng. Min. J.*, v. 132, no. 7, p. 324-329.
1937: A comparison of the gold deposits of Australia and North America; *Proc., R. Can. Inst.*, Ser. IIIA, v. 11, p. 53-62.
- McLellan, R.R., Berkenkotter, R.D., Wilmot, R.C. and Stahl, R.L.
1974: Drilling and sampling Tertiary gold-bearing gravels at Badger Hill, Nevada County, Calif.; *U.S. Bur. Mines, Rep. Invest.* 7935, 50 p.
- McLennan, J.F.
1915: Quartz veins in lamprophyre intrusions; *Eng. Min. J.*, v. 99, p. 11-13.
- McLeod, I.R., ed.
1965: Australian mineral industry: the mineral deposits; *Aust., Bur. Min. Resour., Geol. Geophys., Bull.* No. 72, 690 p.
- McMath, J.C., Gray, N.M. and Ward, H.J.
1953: The geology of the country about Coolgardie, Coolgardie Goldfield, W.A.; *Geol. Surv. West. Aust., Bull.* 107, 365 p. and suppl. atlas.
- McMurphy, R.C.
1948: Powell Rouyn mine; *in* Structural geology of Canadian ore deposits, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 739-747.
- McPheat, I.W., Gooden, J.E.A. and Townend, R.
1969: Submicroscopic gold in a pyrite concentrate; *Australas. Inst. Min. Metall., Proc.*, no. 231, p. 19-25.
- Means, A.H.
1914: Tourmaline bearing gold quartz veins of the Michipicoten District, Ontario, *Econ. Geol.*, v. 9, p. 122-135.
- Mehliss, A.T.M.
1964: The Dawn gold deposit, Queens area, Bulawayo, southern Rhodesia; *in* The geology of some ore deposits in southern Africa, v. 2, S.H. Haughton, ed., *Geol. Soc. S. Afr.*, Johannesburg, p. 41-58.
1968: The geology of the Indarama gold-antimony mine, Sebakwe area, Que. Que, Rhodesia; *Geol. Soc. S. Afr., Trans. (Annex.)*, v. 71, p. 135-146.
- Meikle, B.K.
1970: Camflo Mines Limited—geology and mining; *Can. Inst. Min. Metall., Bull.*, v. 63, no. 704, p. 1406-1410.
- Mellor, E.T.
1916: The conglomerates of the Witwatersrand; *Inst. Min. Metall., Trans.*, v. 25, p. 226-348.
1931: The origin of the gold in the Rand banket: discussion on Professor Gratton's paper; *Geol. Soc. S. Afr., Trans. (Annex.)*, v. 34, p. 55-69.
- Mellor, J.W.
1923: A comprehensive treatise on inorganic and theoretical chemistry; v. 3, Cu, Ag, Au and the alkaline earths; Longmans, Green and Co., Ltd., London.
- Mel'nichuk, E.V.
1974: Gold content of the northeastern part of the Ukrainian Shield in relation to crust formation processes; Rudonos. Kory Vyvtrivaniya, V.I. Smirnov, ed., "Nauka" Moscow, U.S.S.R., p. 183-185. (*Chem. Abstr.*, v. 82, 75731r.)
- Mel'nikov, V.D. and Mel'nikova, L.V.
1970: Regular characteristics of gold and trace element distribution in hydrothermally altered volcanic rocks of the Belaya Gora deposit, Lower Amur area; *Isv. Tomsk. Polotekh. Inst.*, v. 239, p. 45-49. (*Chem. Abstr.*, v. 75, 111759x.)
- Menke, J.R.
1951: Method for locating deposits; *U.S. Patent* 2,551,449.
- Mennell, F.G.S.
1905: The banket formation of Rhodesia; *Geol. Soc. S. Afr., Trans.*, v. 8, p. 82-87.
- Men'shikov, V.I., Malykh, V.D. and Shestakova, T.D.
1974: Direct determination of gold in solids by an atomic-absorption method; *Zh. Anal. Khim.*, v. 29, no. 11 p. 2132-2136. (*Chem. Abstr.*, v. 82, 179889q.)
- Mercer, W. and Crocket, J.
1972: Gold and palladium in host rocks and ores from the Heath Steele B-1 deposit, New Brunswick; 24th Int. Geol. Congr., Montreal, Sec. 10, Geochemistry, p. 180-185.
- Mering, J., Mathieu-Sicaud, A. and Perrin-Bonnet, I.
1953: Fixation de particules d'or colloidal sur la kaolinite; *Cong. Géol. Int. 19ieme, Alger, Fasc.* 18, p. 103-107.
- Mero, J.L.
1965: The mineral resources of the sea; Elsevier Publishing Co., Amsterdam, 310 p.
- Merrill, G.P.
1896: An occurrence of free gold in granite; *Am. J. Sci.*, v. 1, p. 309-311.

- Mertie, J.B.
 1921: Lode mining in the Juneau and Ketchikan districts; *in* Mineral resources of Alaska; U.S. Geol. Surv., Bull. 714, p. 105-128.
 1940: Placer gold in Alaska; *J. Wash. Acad. Sci.*, v. 30, p. 93-124.
 1954: The gold pan: a neglected geological tool; *Econ. Geol.*, v. 49, p. 639-651.
 1969: Economic geology of the platinum metals; U.S. Geol. Surv., Prof. Pap. 630, 120 p.
- Meshchaninov, E.Z. and Azin, V.N.
 1972: Distribution of gold in a copper porphyry deposit in the Almalyk region; *Izv. Vyssh. Ucheb. Zaved, Geol. Razved.* v. 15, no. 8, p. 46-50. *Also* *Int. Geol. Rev.*, v. 15, no. 5, p. 660-663.
- Meshchaninova, G.S. and Meshchaninov, E.Z.
 1974: Gold distribution in mineral complexes of the Kaulda deposit; *Zap. Uzb. Otd. Vses. Mineral. O-va*, v. 27, p. 38-40. (*Chem. Abstr.*, v. 83, 100866u.)
- Meshcheryakov, S.S.
 1963: Distribution of indium in ore deposits of tin and gold; *Zap. Vses. Mineralog. Obshchest.*, v. 92, no. 4, p. 466-470. (*Chem. Abstr.*, v. 60, 2682c.)
- Meyer, A.
 1941: In the Choco, Colombia; *Eng. Min. J.*, v. 142, p. 35-39.
- Meyer, C. and Hemley, J.J.
 1967: Wall rock alteration; *in* *Geochemistry of hydrothermal ore deposits*, H.L. Barnes, ed., Holt, Rinehart and Winston Inc., New York, p. 166-235.
- Meyer, W.T. and Peters, R.G.
 1973: Evaluation of sulphur as a guide to buried sulphide deposits in the Notre Dame Bay area, Newfoundland; *in* *Prospecting in areas of glacial terrain*, M.J. Jones, ed., Inst. Min. Metall. (London), p. 55-56.
- Meyn, H.D.
 1970: Geology of Hutton and Parkin townships; *Ont. Dep. Mines, Geol. Rep.* 80, 78 p.
- Michel, A. and Hunt, T.S.
 1866: Reports of Mr. A. Michel and Dr. T.S. Hunt on the gold region of Canada; *Geol. Surv. Can., Progr. Rep.*, 1863-1866, p. 49-90.
- Middlehurst, B.M. and Kuiper, G.P.
 1963: The moon, meteorites, and comets; Univ. Chicago Press, Chicago, 810 p.
- Miholić, S.
 1954: Genesis of the Witwatersrand gold-uranium deposits; *Econ. Geol.*, v. 49, p. 537-540.
- Mikhailova, Yu. V.
 1970: Characteristics of gold distribution in sulfide occurrences in Chakchar and Yakkabag mountains, southern Uzbekistan; *Zap. Uzb. Otd. Vses. Mineral. Obshchest.*, no. 22, p. 196-201. (*Chem. Abstr.*, v. 74, 114505b.)
- Mikhalev, G.P. and Shamshina, E.A.
 1969: Placer deposits. Diamond placer deposits in Yakutia; *Str. Zemnoi Kory Yakutii Zakonomer. Razmeshcheniya Polez. Iskop.*, Yu. P. Ivensen, ed., Izd. "Nauka", Moscow, U.S.S.R., p. 342-352. (*Chem. Abstr.*, v. 73, 27537z.)
- Mikov, A.D.
 1970: Thermal and x-ray diffraction studies of limonites from Kuznetsk Alatau gold deposits; *Izv. Tomsk. Politekh. Inst.*, no. 239, p. 446-454. (*Chem. Abstr.*, v. 75, 111586p.)
- Mikshevich, V.N., Moiseev, V.E. and Antonov, V.A.
 1971: Neutron-activation determination of gold, iridium, and platinum in pyroxenites; *Aktiv. Anal., Mater. Vses. Soveshch.*, 2nd, 1968, p. 127-130. (*Chem. Abstr.*, v. 77, 28465u.)
- Miller, A.D. and Fisher, E.I.
 1973: Dissolution of gold during oxidation by MnO₂; *Geochem. Int.*, v. 10, no. 3, p. 656-663.
 1974: Dissolution of gold in FeCl₃ solutions and its precipitation on pyrite (laboratory model); *Geokhim.*, no. 3, p. 411-417.
- Miller, B.L. and Singewald, J.T.
 1919: The mineral deposits of South America; McGraw-Hill Book Co., Inc., New York, 598 p.
- Miller, T.P. and Ferrians, O.J.
 1968: Suggested areas for prospecting in the central Koyukuk River region, Alaska; U.S. Geol. Surv., Circ. 570, 12 p.
- Miller, W.G.
 1902: The eastern Ontario gold belt; *Ont. Bur. Mines Rep.* for 1902, p. 186-207.
- Miller, W.G. and Knight, C.W.
 1914: The Precambrian geology of southeastern Ontario; *Ont. Bur. Mines Rep.*, v. 22, pt. 2, 151 p.
- Mills, J.W.
 1948: Mic Mac mine; *in* *Structural geology of Canadian ore deposits*, v. 1, Can. Inst., Min. Metall., Montreal, p. 803-808.
 1954: Vertical zoning at the O'Brien gold mine, Kewagama, Quebec; *Econ. Geol.*, v. 49, p. 423-430.
- Milton, C. and Milton, D.J.
 1958: Nickel-gold ore of the Mackinaw Mine, Snohomish County, Washington; *Econ. Geol.*, v. 53, p. 426-447.
- Mincheva-Stefanova, Y. and Stefanov, G.
 1972: Use of gold content in sphalerite as a typochemical indicator; *Spis. Bulg. Geol. Druzh. (Rev. Bulgarian Geol. Surv.)*, v. 33, no. 3, p. 271-281 (*Engl. summary*).
- Mineev, G.G.
 1976: Participation of organisms in the geochemical cycle of gold migration and concentration; *Geokhim.* no. 4, p. 577-583.
- Minigulov, I.M.
 1975: Finely dispersed gold of the Lebedin deposit (central Aldan); *Akad. Nauk SSSR, Dokl.*, v. 225, p. 918-919. (*Chem. Abstr.*, v. 85, 35547r.)
- Minguzzi, C.
 1947: Dosatura spettrografica dell oro in piriti italiane; *Soc. Toscana Sci. Nat. Atti., Mem.*, v. 54, p. 210-243.
- Minnett, R.C.A., Button, A. and Kable, E.J.D.
 1973: The gold contents of pre-Malmani argillaceous sediments in the Transvaal Supergroup, northeastern Transvaal; *Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ.* 82, 11 p.
- Minter, W.E.L.
 1970: Gold distribution related to sedimentology of a Precambrian Witwatersrand conglomerate, South Africa, as outlined by moving-average analyses; *Econ. Geol.*, v. 65, p. 963-969.
 1976: Detrital gold, uranium, and pyrite concentrations related to sedimentology in the Precambrian Vaal Reef placer, Witwatersrand, South Africa; *Econ. Geol.*, v. 71, p. 157-176.
- Mints, M.V.
 1973: Gold in igneous rocks of the southwestern part of the Ulinsk superposed trough (Okhotsk-Chukotsk volcanic belt); *Akad. Nauk. SSSR, Izv. Ser. Geol.*, no. 11, p. 50-58. (*Chem. Abstr.*, v. 80, 110706u.) *Also* *Int. Geol. Rev.*, v. 17, p. 604-611.
- Mirkhodzhaev, I.M. and Lisogor, L.N.
 1972: Age of commercial gold ore mineralization in Karamazar; *Nek. Itogi Petrometallogenicheskikh Issled. Uzb.*, p. 171-198. (*Chem. Abstr.*, v. 84, 7620v.)
- Miroshnichenko, L.A., Kalinin, S.K. and Zamyatina, G.M.
 1971: Germanium in the skarns of central Kazakhstan; *Geochem. Int.*, v. 8, no. 3, p. 371-374.
- Mirzaev, M.R. and Khabirov, N.A.
 1972: Determination of trace impurities in natural diamonds by the activation method; *Akad. Nauk Uzb. SSR, Izv., Ser. Fiz. Mat. Nauk*, v. 16, p. 91-93. (*Chem. Abstr.*, v. 77, 13592j.)
- Modnikov, I.S., Skvortsova, K.V. and Chesnokov, L.V.
 1974: Correlations of uranium-molybdenum, fluorite, and gold ore deposits in regions of continental volcanism; *Sov. Geol.*, no. 12, p. 48-61. (*Chem. Abstr.*, v. 82, 142833r.)

- Moffit, F.H.
1913: Geology of the Nome and Grand Central quadrangles, Alaska; U.S. Geol. Surv., Bull. 533, 140 p.
- Mogarovskii, V.V.
1961: Geochemistry of thallium in the oxidized zone of the Daraiso sulfide deposit (Middle Asia); *Geochemistry*, no. 9, p. 848-852.
- Moiseenko, V.G.
1965: Metamorfizm Zolota Mestorozhdenii Priamur'ya (Metamorphism of gold in deposits of the Amur River region); Khabarovsk: Kn. Izd., 127 p. (Chem. Abstr., v. 65, 3608c.)
- Moiseenko, V.G. and Fat'yanov, I.I.
1972: Geochemistry of gold; 24th Int. Geol. Congr., Montreal, Sec. 10, *Geochemistry*, p. 159-165.
- Moiseenko, V.G., Nechkin, G.S. and Fat'yanov, I.I.
1970: Geochemical conditions of redistribution of gold associated with magmatic rocks; in *Problems of hydrothermal ore deposition*, Z. Pouba and M. Stemprok, eds., Int. Union. Geol. Sci., Ser. A, no. 2, p. 115-120.
- Moiseenko, V.G. and Neronskii, G.I.
1973: Confinement of gold mineralization to metamorphic complexes; *Metamorf. Kompleksy Vostoka SSSR*, A.M. Smirnov, ed., Akad. Nauk. SSSR, Dal'nevost Nauch. Vladivostok, p. 219-225. (Chem. Abstr., v. 82, 61982m.)
- Moiseenko, V.G., Shcheka, S.A., Fat'yanov, I.I. and Ivanov, V.S.
1971: The geochemical peculiarities of the distribution of gold in the rocks of the Pacific Belt; Izd. "Nauka" Publ. House, Moscow, 207 p.
- Montgomery, J.H., Sinclair, A.J., Symonds, D.F. and Giroux, G.H.
1977: Geostatistical study of the Ladner Creek gold deposit of Carolin Mines, Ltd.; *Western Miner*, v. 50, no. 3, p. 11-22.
- Moore, E.S.
1912: Hydrothermal alteration of granite and the source of vein-quartz at the St. Anthony Mine; *Econ. Geol.*, v. 7, p. 751-761.
1925: Gold in quartzite in the Goudreau District, Ontario; *Can. Min. J.*, v. 46, p. 142.
1932: Goudreau and Michipicoten gold areas, District of Algoma; *Ont. Dep. Mines, Annu. Rep.*, 1931, v. 40, pt. 4, p. 1-54.
1940: Genetic relations of gold deposits and igneous rocks in the Canadian Shield; *Econ. Geol.*, v. 35, no. 2, p. 127-139.
- Moore, G.W. and Silver, E.A.
1968: Gold distribution on the sea floor off the Klamath Mountains, California; U.S. Geol. Surv., Circ. 605, 9 p.
- Moore, J. McM.
1975: Regional metamorphism as an ore-forming process in the Saudi Arabian Shield; *Inst. Min. Metall., Trans.*, Sec. B., v. 84, p. B59-B62.
- Moorhouse, W.W.
1942: Gold mineralization in minor igneous intrusions, *Econ. Geol.*, v. 37, no. 4, p. 318-329.
- Morachevskii, D.E. and Nechaeva, A.A.
1960: Characteristics of migration of rhenium from molybdenites; *Geochemistry*, no. 6, p. 648-651.
- Morávek, P.
1963: A contribution to the study of zonal structure of gold-bearing veins; in *Symp. Problems of Postmagmatic Ore Deposition*; v. 1, p. 118-125, *Geol. Surv. Czech., Prague*.
1971: Ore deposits, structure, and mineralization of the Jilové gold-mining district; *Sb. Geol. Ved. Loziskova Geol. Rada Lg Svazek 13*, 170 p.
- Morávek, P. and Rus, V.
1970: Regeneration of gold in the central Bohemian pluton area, Czechoslovakia; in *Problems of hydrothermal ore deposition*, Z. Pouba and M. Stemprok, eds., Int. Union Geol. Sci., Ser. A., no. 2, p. 120-125.
- Mordvin, P.P. and Levin, V.I.
1969: Khudzhir auriferous conglomerates in the eastern Sayans; *Form. Tipy Drevnykh Zolotonosnykh Rossyppei Metody Ikh Poiskov*, N.V. Cherskii, ed., Izd. "Nauka", Moscow., U.S.S.R., p. 160-174. (Chem. Abstr., v. 72, 81383p.)
- Mordvin, A.P., Stanikov, V.A. and Fainshtein, G.Kh.
1973: Problem of gold occurrence in Precambrian conglomerates of eastern Siberia and ways of solving it; *Litol. Osad. Polez. Iskop. Dokembr. Sib. Dal'nego Vostoka, Mater. Soveshch. Sib. Otd. Kom. Osad. Porodam Otd. Geol., Geokhim. Geofiz. Akad. Nauk. SSSR*, 8th, 1972, Yu.P. Kazanskii, ed. (Chem. Abstr., v. 84, 138455t.)
- Morey, G.W.
1957: The solubility of solids in gases; *Econ. Geol.*, v. 52, p. 225-251.
- Morey, G.W. and Ingerson, E.
1937: The pneumatolytic and hydrothermal alteration and synthesis of silicates; *Econ. Geol.*, v. 32, suppl. to no. 5, p. 607-761.
- Morgan, E.V.
1965: A history of money; Pelican Books Inc., Baltimore, Md., 237 p.
- Morgan, J.W., Ganapathy, R., Higuchi, H., Krähenbühl, U. and Anders, E.
1974: Lunar basins: tentative characterization of projectiles, from meteoritic elements in Apollo 17 boulders; in *Proc. 5th Lunar Sci. Conf., Geochim. Cosmochim. Acta. Suppl. 5*, v. 2, p. 1703-1736.
- Morgan, J.W., Ganapathy, R. and Krähenbühl, U.
1975: Meteoritic trace elements in lunar rock 14321,184; *Geochim. Cosmochim. Acta*, v. 39, p. 261-264.
- Morgan, J.W., Krähenbühl, U., Ganapathy, R. and Anders, E.
1972: Trace elements in Apollo 15 samples: Implications for meteorite influx and volatile depletion on the moon; *Proc. 3rd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 3*, v. 2, p. 1361-1376.
1973a: Luna 20 soil: abundance of 17 trace elements; *Geochim. Cosmochim. Acta*, v. 37, no. 4, p. 953-961.
1973b: Trace element abundances and petrology of separates from Apollo 15 soils; in *Proc. 4th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 4*, v. 2, p. 1379-1398.
- Morgan, J.W., Laul, J.C., Krähenbühl, U., Ganapathy, R. and Anders, E.
1972: Major impacts on the moon: characterization from trace elements in Apollo 12 and 14 samples; *Proc. 3rd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 3*, v. 2, p. 1377-1395.
- Morgan, J.W., Rebagay, T.V., Showalter, D.L., Nadkarni, R.A., Gillum, D.E., McKown, D.M. and Ehmann, W.D.
1969: Allende meteorite: some major and trace element abundances by neutron activation analysis; *Nature*, v. 224, p. 789-791.
- Morgan, P.G.
1908: The geology of the Miconui subdivision, New Westland; *N.Z., Geol. Surv., Bull.*, no. 6 (New Series), 175 p.
1924: The geology and mines of the Waihi district, Hauraki goldfield, New Zealand; *N.Z., Geol. Surv., Bull.* 26 (New Series), 218 p.
- Morrell, W.P.
1968: The gold rushes; Adam and Charles Black, London, 427 p.
- Morris, H.L.
1918: A study of the chemistry of gold at high temperatures and pressures; *J. Am. Chem. Soc.*, v. 40, p. 917-927.
- Morris, H.T. and Lovering, T.S.
1952: Supergene and hydrothermal dispersion of heavy metals in wall rocks near ore bodies, Tintic district, Utah; *Econ. Geol.*, v. 47, p. 685-716.
- Mott, N.F.
1955: Physics of the solid state; *Advancement Sci.*, v. 12, no. 46, p. 148-154.

- Mueller, G.
1971: Organic inclusions within hydrothermal minerals from S.W. Africa and elsewhere; *Advances in Organic Geochemistry*, p. 707-716, Pergamon Press, Oxford.
- Mukaiyama, H. and Izawa, E.
1964: The gold-silver ores from the Kushikino mine, Kagoshima prefecture, Japan, with special reference to the occurrence of naumannite; *Min. Geol. (Japan)*, v. 14, p. 191-199.
- Mukanov, K.M. and Aubakirova, R.B.
1969: The geochemistry of rhenium in the oxidation zones of sulphide deposits; *Akad. Nauk SSSR, Dokl.*, v. 184, no. 2, p. 445-447.
- Mukanov, K.M. and Romashin, S.S.
1964: Primary geochemical halos at the Akbastau-Kusmurun ore field; *Geol. Rud. Mestorozhd.*, v. 6, no. 5, p. 90-93.
- Mukhin, L.
1974: Evolution of organic compounds in volcanic regions; *Nature*, v. 251, p. 50-51.
- Muller, M.C.
1974: Compounds with gold-antimony bonds; *Gold Bull., S. Afr. Chamber Mines*, v. 7, no. 2, p. 39-40.
- Mumme, W.G.
1975: Junoite, $\text{Cu}_2\text{Pb}_3\text{Bi}_8(\text{S}, \text{Se})_{16}$, a new sulfosalt from Tennant Creek Australia: its crystal structure and relationship with other bismuth sulfosalts; *Am. Mineral.*, v. 60, p. 548-558.
- Mumme, W.G. and Watts, J.A.
1976: Pekoite, $\text{CuPbBi}_{11}\text{S}_{18}$, a new member of the bismuthinite-aikinite mineral series: its crystal structure and relationship with naturally- and synthetically-formed members; *Can. Mineral.* v. 14, p. 322-333.
- Murchison, R.I.
1867: On the original introduction of gold into the earth's crust and its subsequent distribution in debris over various parts of the earth; *in Siluria*, 4th ed., John Murray Publisher, London, p. 448-475.
- Murdock, J. and Webb, R.W.
1966: Minerals of California—Centennial Volume (1866-1966), with sections by Ian Campbell and Eleanor M. Learned; *Calif. Div. Mines Geol., Bull.* 189, 559 p.
- Murovtsev, A.V.
1968: Gold in sedimentary-volcanic strata of a central Asia gold field; *Nauch. Tr., Tashkent, Gos. Univ.*, no. 337, p. 59-63. (Chem. Abstr., v. 72, 69142b.)
- Murthy, M.K.
1964: Geology and gold-bearing lodes of Hutti gold mines, Raichur district, Mysore State; 22nd Int. Geol. Congr., New Delhi, India, pt. 5, Genetic problems of ores, p. 87-101.
- Mushketov, D.
1930: Sketch of the gold ore deposits of U.S.S.R.; *in The gold resources of the world*; 15th Int. Geol. Congr., Pretoria, 1929, p. 305-319.
- Mushkin, I.V. and Yaroslavskii, R.I.
1974: Gold in alkaline basaltoids and some types of abyssal inclusions of the southern Tien-Shan; *Geokhim.*, no. 7, p. 1041-1044.
- Mushkin, I.V., Yaroslavskii, R.I. and Kotsyuba, A.S.
1974: Behaviour of gold during eclogitization of the granulite facies gneisses exemplified by xenoliths in dikes of alkaline basaltic rocks of the southern Tien-Shan; *Geokhim.*, no. 8, p. 1172-1178.
- Musin, V.N.
1973: Relation of gold mineralization in the Amur Region to magmatic formations; *Vop. Magmat., Metamorf. Orudeneniya Dal'nego Vostoka, dal'nevost. Petrogr. Reg. Soveshch.*, (Mater.), 2nd 1972, S.S. Zimin, ed., Akad. Nauk SSSR, Dal'nevost. Nauch. Tsentr., Vladivostok, U.S.S.R., p. 238-241. (Chem. Abstr., v. 81, 155903t.)
- Mustart, D.A.
1965: A spectrographic and mineralographic investigation of alluvial gold from the central Yukon; unpubl. B.Sc. thesis., Univ. British Columbia, Vancouver, 46 p.
- Musylev, S.A., ed.
1966: Map of mineral resources of Africa; *Min. Geol., U.S.S.R.* (2 sheets).
- Mutch, A.D.
1952: Variation of thermoelectric properties of pyrite in association with gold ore; *Min. Eng.*, v. 4, p. 880-883.
- Myers, W.B.
1971: Precambrian pyritic gold- and uranium-bearing conglomerates; *Econ. Geol.*, v. 66, p. 980 (abstr.).
- Myerscough, L.
1973: The nuclear properties of gold; *Gold Bull., S. Afr. Chamber Mines*, v. 6, no. 3, p. 62-68.
- Mysnik, A.M.
1973: Trace elements in pyrites of Kalba; *Tr. Inst. Geol. Nauk, Akad. Kaz. SSR*, v. 33, p. 151-155. (Chem. Abstr., v. 81, 172973h.)
- Nadkarni, R.A. and Morrison, G.H.
1974: Determination of noble metals in geological materials by neutron activation analysis; *Anal. Chem.*, v. 46, no. 2, p. 232-236.
- Nadson, G.A. and Stern, C.A.
1934: The biological action of metals at a distance; *Compt. Rend.*, v. 198, p. 282-284. (Chem. Abstr., v. 28, 2387-8.)
- Nahai, L.
1958: The mineral industry of Turkey, U.S. Bur. Mines, Inform. Circ. 7855, 140 p.
- Naiborodin, V.I. and Goncharov, V.I.
1970: Temperatures prevailing during the formation of the Agatovskoye gold-silver deposit; *Geol. Rud. Mestorozhd.*, v. 12, no. 6, p. 46-51. (Summary *in Econ. Geol.*, v. 69, p. 730.)
- Naiborodin, V.I. and Sidorov, A.A.
1973: Ore-formation series of gold deposits in the Okhotsk-Chukotka volcanic belt; *Zakonomen. Razmeshcheniya Polez. Iskop.*, no. 10, p. 240-249. (Chem. Abstr., v. 80, 72784h.)
- Narayanaswami, S.
1960: Geochemical prospecting for gold-bearing lodes in the Kolar gold fields, India; *Symp. Explor. Geoquimica.*, v. 3, 20th Int. Geol. Congr., Mexico City, 1956, p. 541-553.
- Narayanaswami, S., Ziauddin, M. and Ramachandra, A.V.
1960: Structural control and localization of gold-bearing lodes, Kolar gold field, India; *Econ. Geol.*, v. 55, p. 1429-1459.
- Nash, J.T.
1975: Fluid inclusion studies of vein, pipe, and replacement deposits, northwestern San Juan Mountains, Colorado; *Econ. Geol.*, v. 70, p. 1448-1462.
- Nash, J.T. and Cunningham, C.G.
1973: Fluid-inclusion studies of the fluorspar and gold deposits, Jamestown district, Colorado; *Econ. Geol.*, v. 68, p. 1247-1262.
- Nasibov, T.N., Orudzhev, G.Yu and Melikov, N.E.
1972: New type of mercury deposit in Terter River middle reaches basin; *Akad. Nauk. Azerb. SSR, Dokl.*, v. 28, no. 8, p. 48-52. (Chem. Abstr., v. 79, 94760d.)
- Nason, A.P., Quesada, A., Lopez, V.M., Dennen, W.H. and Roth, J.
1968: Geochemical prospecting for gold in the Callao district, Venezuela; *Geos. (Caracas) Esc. Geol. Minas, Met.*, v. 18, p. 24-40. (Chem. Abstr., v. 72, 14584s.)
- Naumenko, V.V. and Skarzhinskii, V.I.
1970: The endogenic ore deposits of Neogene age in Transcarpathia; *Geol. Rud. Mestorozhd.*, no. 1, p. 83-87.
- Naumov, V.N., Pachadzhaniyev, D.N. and Burichenko, T.I.
1971: Behaviour of bismuth, silver, lead, and zinc in the process of secondary sulfide enrichment; *Geochem. Int.*, v. 8, no. 3, p. 459.
- Naz'mova, G.N. and Shalaev, Yu. S.
1969: On age of gold mineralization in north Kazakhstan, *Akad. Nauk. SSSR, Dokl.*, v. 188, no. 6, p. 1355-1356.
- 1971: Mineral associations of gold ore deposits in northern Kazakhstan; *Vest. Mosk. Univ. Geol.*, v. 26, no. 2, p. 98-103. (Chem. Abstr., v. 75, 79045y.)

- Naz'mova, G.N., Spiridonov, E.M. and Shalaev, Yu. S.
1975: Aurostibite of the Bestyube field in northern Kazakhstan, first find in the U.S.S.R.; Akad. Nauk SSSR, Dokl., v. 222, no. 3, p. 687-689. (Chem. Abstr., v. 84, 33618v.)
- Nedachi, M.
1974: Mineralization of the Kohoku gold, silver, and copper ore deposits, Miyagi prefecture, Japan; Tohoku Univ., Sci. Rep., Ser. 3, v. 12, no. 3, p. 331-394.
- Needham, J.
1954: Prospection géobotanique en Chine médiévale; J. Agric. Trop. Bot. Appl., v. 1, nos. 5-6, p. 143-147.
1959: Science and civilization in China, v. 3; Mathematics and sciences of the heavens and the earth; Cambridge Univ. Press, London, 877 p.
- Negurey, E.P. and Temel, V.K.
1936: Tellurides in the placers of Krasny Creek in the Upper Angora region; Prob. Sov. Geol., v. 7, p. 62-66. Also Rev. Geol., v. 17, p. 497. (Chem. Abstr., v. 32, 6182,9.)
- Nekrasov, I.Ya.
1973: Correlation of gold and tin mineralization in north-eastern U.S.S.R., Geol. Rud. Mestorozhd., v. 15, no. 3, p. 16-28. (Chem. Abstr., v. 80, 5725b.)
- Nekrasov, Ye. M.
1973: Structural types of gold-ore deposits localized in diversely deformed sandstone-slaty series; Akad. Nauk. SSSR, Izv., Ser. Geol., no. 12, p. 57-71.
1974: Distribution of gold in veined bodies intersecting sand-shale strata; Akad. Nauk. SSSR, Izv., Ser. Geol., no. 12, p. 81-94. (Chem. Abstr., v. 82, 158727v.)
- Nel, L.T.
1960: The genetic problem of uraninite in the South African gold-bearing conglomerates; 21st Int. Geol. Congr., Norden, pt. XV, p. 15-25.
- Nelson, C.H. and Hopkins, D.M.
1972: Sedimentary processes and distribution of particulate gold in the northern Bering Sea; U.S. Geol. Surv., Prof. Pap. 689, 27 p.
- Nelson, T.R.H.
1944: Gold mining in South Wales; Mines Quarry Eng., v. 9, p. 3-10, 33-38, 55-60.
- Němec, B., Babička, J. and Oborský, A.
1936: Über das Vorkommen von Gold in den Schachtelhalmen (*Equisetum palustre* u. *arvense*); Bull. Int. Acad. Sci. Bohême, v. 37, p. 1-6.
- Němec, B., Babička, J. and Smolér, I.
1937: Spektroskopische und chemische Untersuchungen über Gold in den Pflanzen; Acad. Tcheque Sci. (Prague), Bull. Int., v. 38, p. 40-45.
- Němec, D.
1974: Gold in pyrites in some Czechoslovakian deposits; Mineral. Slovaca, v. 6, no. 2, p. 151-154. (Chem. Abstr., v. 82, 75734u.)
- Neronskii, G.I., Dobraya, V.T. and Fedulov, V.G.
1972: Distribution and properties of placer gold in prospecting for gold ore deposits. Vop. Geol. Rud. Mestorozhd. Dal'nego Vostoka, G.I. Osipova, ed., Akad. Nauk S.S.S.R., Da'nevost. Geol. Vladivostok, U.S.S.R., p. 79-85. (Chem. Abstr., v. 82, 19485b.)
- Nesmeyanov, A.N., Perevalova, E.G., Grandberg, K.I. and Lemenovskii, D.A.
1974: Gold organic complexes; Akad. Nauk. SSSR, Izv., Ser. Khim., no. 5, p. 1124-1137.
- Nestorenko, G.V.
1973: Lower Cretaceous oxidation zone at the Itakina gold ore deposits in northeastern Transbaikalia; Geol. Geofiz., no. 10, p. 66-76. (Chem. Abstr., v. 80, 39269w.)
- Nestorenko, G.V., Vorotnikov, B.A. and Osintsev, S.R.
1976: Behaviour of gold and accessory elements in the processes of oxidation of deposit outcrops (as exemplified by N-E Trans. Baikal and South Yenisei taiga); in Gold and rare elements in geochemical processes, Yu. G. Shcherbakov, ed.; "Nauka" Publ. House, Siberian Br., Novosibirsk, p. 140-165.
- Nesterov, N.V.
1974: Relation of gold ore deposits in the Soviet part of the Pacific Ocean belt to weathering crusts; Rudonos. Kory Vyvetrivaniya, V.I. Smirnov, ed., "Nauka", Moscow, U.S.S.R., p. 186-191. (Chem. Abstr., v. 82, 46298z.)
- Nesterov, N.V., Levin, V.I. and Igumnova, N.S.
1974a: Geochemical conditions of the oxidation of ore bodies of the Tokursk deposit; Geol. Geofiz., no. 4, p. 79-84. (Chem. Abstr., v. 81, 52477c.)
1974b: Formation of enriched sections of oxidation zones in gold ore deposits, as illustrated by deposits of the Far East; Vop. Rudonos. Yakutii, p. 67-77. (Chem. Abstr., v. 84, 108597y.)
- Nesterova, N.P. and Chebotarev, G.M.
1969: The mineralogical and geochemical features of the ores of the Muruntau deposit; in The gold ore formations and principal features of the metallogeny of gold in Uzbekistan, I. Kh. Khamrabaev, ed., "Fan" Publ. Off. Uzb. SSR, Tashkent, p. 176-189.
- Nesvetaylova, N.G.
1970: Botanical prospecting for ores; Izd. "Nedra" Publ. House, Moscow, 97 p.
- Neubauer, W.H.
1962: Geologie der Goldagerstätte von El Sid in Oberägypten mit einem Beitrag zur Geologie der zentralen Arabischen Wüste; Geol. Jahrb., v. 80, p. 117-159.
- Nevolin, V.A.
1971: Relation of placers to gold ore deposits in the Yenisei Ridge; Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya, no. 114, p. 76-78. (Chem. Abstr., v. 79, 81656z.)
- Newhouse, W.H.
1928: The time sequence of hypogene ore mineral deposition; Econ. Geol., v. 23, p. 647-659.
1936: A zonal gold mineralization in Nova Scotia; Econ. Geol., v. 31, p. 805-831.
- Newhouse, W.H., ed.
1942: Ore deposits as related to structural features; Princeton Univ. Press, Princeton, N.J. 280 p.
- Newhouse, W.H. and Zuloaga, G.
1929: Gold deposits of the Guayana Highlands, Venezuela; Econ. Geol., v. 24, p. 797-810.
- Nice, R.W.
1971: Recovery of gold from active carbonaceous ores at McIntyre; Can. Min. J., v. 92, no. 6, p. 41-44, 49.
- Nickel, E.H.
1977: Mineralogy of the "green leader" gold ore at Kalgoorlie, Western Australia; Proc., Aust. Inst. Min. Metall., no. 263, p. 9-13.
- Nichol, I. and Bjorklund, A.
1973: Glacial geology as a key to geochemical exploration in areas of glacial overburden with particular reference to Canada; J. Geochem. Explor., v. 2, p. 133-170.
- Nichol, I.I., James, L.D. and Viewing, K.A.
1966: Regional geochemical reconnaissance in Sierra Leone; Inst. Min. Metall., Trans., Sec. B, v. 75, p. B146-B161; Disc., v. 76, p. B69-B72, 1967; authors' reply, v. 78, p. B52-B54.
- Nickerson, D.
1972: An account of a lake sediment geochemical survey conducted over certain volcanic belts within the Slave structural province of the Northwest Territories during 1972; Geol. Surv. Can., Open File Rep. 129, 22 p., append. and maps.
- Nicolini, P.
1970: Géologie des concentrations minérales stratiformes; Gauthier-Villars Editeur, Paris, 792 p.

- Nifontov, R.V.
 1957: Sur la minéralisation aurifère homogène des roches sédimentaires de quelques régions minéralisées, (en Russe); in *Method. Isslen. Miner. Syr'ja*, Gosgeoltekhizdat, Moscow, p. 90-97. Also *Chron. Mines*, 1962, no. 313, p. 320-321.)
 1960: Chemogenic gold in some sedimentary rocks and its role in formation of placer deposits; *Zakonomen. Razmeshcheniya Polez. Iskop.*, Akad. Nauk. SSSR, Otd., Geol. Geograf. Nauk, no. 4, p. 58-62. (Chem. Abstr., v. 56, 185c.)
- Nikanorov, G.S., Kotsuba, A.S., Kovalenko, V.V. and Sil'vanovich, Yu. A.
 1970: Simultaneous determination of clark values of gold, mercury, and antimony in rocks by using the neutron activation method; *Aktiv. Anal. Blagorod. Metal.*, p. 113-114. (Chem. Abstr., v. 76, 10043z.)
- Nikanorov, G.S., Samoilenko, Yu. N. and Chulyakov, A.S.
 1971: Neutron activation determination of gold and rhenium in geochemical studies; *Yadernofiz. Metody. Anal. Veshchestva*, p. 42-46. *From Ref. Zhur., Khim.* 1972, Abstr., no. 7G129. (Chem. Abstr., v. 78, 11229t.)
- Nikitin, N.M. and Yasyrev, A.P.
 1974: On the average gold content in sedimentary rocks, *Geokhim.*, no. 8, p. 1237-1239.
- Nikolaeva, L.A.
 1958: "New" gold in the Lena alluvial deposit; *Tr. Tsent. Nauch. Issled. Gornorazved. Inst.*, v. 2, no. 25, p. 119-122. (Chem. Abstr., v. 54, 18216h.)
 1973: Changes in the structure of gold during the metamorphism of ores in some central Asian deposits; *Zap. Uzb. Otd. Vses. Mineral. Obshchest.*, no. 26, p. 105-109. (Chem. Abstr., v. 80, 50473d.)
- Nikolaeva, L.A. and Badalova, Yu. P.
 1974a: Secondary gold as an index of the sulfide content of ores; *Nauch. Tr., Tashkent, Gos. Univ.*, no. 438, p. 45-47. (Chem. Abstr. v. 85, 35586c.)
 1974b: Typomorphic importance of the composition of native gold; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, v. 144, p. 106-108. (Chem. Abstr., v. 84, 76956w.)
- Nikol'skii, N.S.
 1963: Some features of the distribution of ore mineralization on Sakhalin; *Tr. Sakhalin. Kompleks. Nauch. Issled. Inst., Akad. Nauk. SSSR, Sib. Otd.*, no. 15, p. 14-21. (Chem. Abstr., v. 63, 12892f.)
- Nilsson, G.
 1973: Nickel prospecting and the discovery of the Mjövattnet mineralization, northern Sweden: a case history of the use of combined techniques in drift-covered glaciated terrain; in *Prospecting in areas of glacial terrain*, M.J. Jones, ed.; *Inst. Min. Metall. (London)*, p. 97-109.
- Nishanov, P. Kh., Akbarov, U. and Talipov, R.M.
 1975: Volatility of gold when ashing plant samples; *Uzb. Geol. Zh.*, v. 19, no. 3, p. 92-93. (Chem. Abstr., v. 83, 128446f.)
- Nishiwaki, C., Matsukuma, T. and Urashima, Y.
 1971: Neogene gold-silver ores in Japan; *Soc. Min. Geol. Japan, Spec. Issue 3*, p. 409-417.
- Noble, J.A.
 1950: Ore mineralization in the Homestake gold mine, Lead, South Dakota; *Geol. Soc. Am. Bull.*, v. 61, p. 221-252.
- Noddack, I. and Noddack, W.
 1930: Die Häufigkeit der chemischen Elementen; *Naturwissenschaften*, v. 18, p. 757-764.
 1931: Die Geochemie des Rheniums; *Z. Phys. Chem.*, v. 154A, p. 207-244.
 1934: Die geochemischen Verteilungskoeffizienten der Elemente; *Sv. Kem. Tidskr.*, v. 46, no. 8, p. 173-201.
 1939: Die Häufigkeiten der Schwermetalle in Meerestieren; *Ark. Zool.*, Bd. 32A, no. 4, p. 1-35.
- Nolan, T.B.
 1930: The underground geology of the western part of the Tonopah mining district, Nevada; *Univ. Nevada Bull.*, v. 24, no. 4, p. 5-35.
- 1933: Epithermal precious-metal deposits; in *Ore deposits of the western States*, Lindgren Vol., *Am. Inst. Min. Metall. Eng.*, New York, p. 623-640.
- 1935: The ground geology of the Tonopah mining district, Nevada; *Univ. Nevada, Bull.*, v. 29, no. 5, 49 p.
- Noldart, A.J. and Threader, V.M.
 1965: Gold deposits of Tasmania; in *8th Commonw. Min. Metall. Congr., Australia and New Zealand*, v. I, *Geology of Australian ore deposits*, 2nd ed., J. McAndrew, ed., p. 518-521.
- Nomura, K., Mikami, A., Kato, T. and Oka, Y.
 1970: The determination of scandium and gold in meteorites, tektites and standard rocks by neutron activation analyses with an internal-reference method; *Anal. Chim. Acta*, v. 51, p. 339-408.
- Norman, G.W.H.
 1948a: Major faults, Abitibi region; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 822-839.
 1948b: The Malartic-Haig section of the southern Gold Belt of western Quebec; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 839-845.
- Normand, D. and Phan, K.D.
 1968: Répartition géochimique de l'or dans le district aurifère de St. Yrieix (Massif Central); *23rd Int. Geol. Congr.*, Prague, Proc., sec. 7, Prague, p. 367-382.
- North, H.H. and Allen, C.C.
 1948: Young-Davidson mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 633-637.
- Norton, J.J.
 1974: Gold in the Black Hills, South Dakota, and how new deposits might be found; *U.S. Geol. Surv., Circ.* 699, 22 p.
- Novgorodova, M.I.
 1976: Platinum, palladium and gold in chalcopyrite ores of the southern Urals; *Akad. Nauk SSSR, Dokl.*, v. 226, p. 942-944.
- Novgorodova, M.I. and Neronskii, G.I.
 1975: Distorted forms of gold crystals from placers of the Amur river region; *Zap. Vses. Mineral. O-va*, v. 104, no. 4, p. 449-452. (Chem. Abstr., v. 84, 62423h.)
- Novgorodova, M.I. and Tsepin, A.I.
 1976: On the phase composition of copper gold; *Akad. Nauk SSSR, Dokl.*, v. 227, p. 184-187.
- Nowlan, J.P.
 1948: Cochenour Willans mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 357-365.
- Nozhikin, A.D., Krendelev, F.P., Gavrilenko, V.A., Mironov, A.G., Bobrov, V.A. and Tsimbalist, V.G.
 1972: The distribution of gold and radioactive elements in the Chingansk Series of the Uvolzhsk graben (Yenisei Range); *Akad. Nauk SSSR, Sib. Otd., Tr. Inst. Geol. Geofiz. Geokhimiya Usloviy Obrazovaniya Rud. Zolota Redkikh Metallov*, no. 149, p. 171-187.
- Nuffield, E.W.
 1954: Brannerite from Ontario, Canada; *Am. Mineral.*, v. 39, p. 520-522.
- Obolenskii, A.A. and Obolenskaya, R.V.
 1972: Gold-antimony and mercury ore formations in Yakutia; in *Geol. Genezis Endogennykh Rud. Form. Sib.*, V.A. Kuznetsov, ed., "Nauka", Moscow, p. 53-64. (Chem. Abstr., v. 78, 18855c.)
- Obrazbekov, G.T.
 1972: Coefficients of correlation between gold and associated elements in the primary haloes of the Zhanalyk deposit (northern Kazakhstan); *Akad. Nauk Kaz. SSR, Izv., Ser. Geol.*, v. 29, no. 2, p. 77-80. (Chem. Abstr., v. 77, 22875f.)

- Obraztsov, A.I.
1969: Characteristics of prospecting for blind gold-antimony deposits; *Metod. Tekh. Razved.*, no. 64, p. 56-58. (Chem. Abstr., v. 72, 113683e.)
- Obroutchew, W.A. et Guérassimov, A.P.
1929: Carte géologique de la région aurifère de la Léna, 172 p., Feuilles VI-1 et VI-2; *Comm. Geol. Leningrad. Also Geol. Zentrabl. Abstr.*, v. 43, no. 6, 1931, p. 379.
- Oelsner, O.
1961: Atlas of the most important ore mineral parageneses under the microscope; Pergamon Press, Oxford, 311 p.
- Oen, I.S. and Kieft, C.
1974: Nickelinite with pyrrhotite and cubanite exsolutions, Ni-Co-rich loellingite and an Au-Cu-alloy in Cr-Ni ores from Beni-Bousera, Morocco; *Neues Jahrb. Mineral. Monatsh.*, no. 1, p. 1-8.
- Ogryzlo, S.P.
1935: Hydrothermal experiments with gold; *Econ. Geol.*, v. 30, p. 400-424.
- Ogura, T.
1967: Geology and mineral resources of the Far East, vol. 1; Univ. Tokyo Press.
1969: Geology and mineral resources of the Far East, vol. 2; Univ. Tokyo Press.
- Ohmoto, H. and Rye, R.O.
1974: Hydrogen and oxygen isotopic compositions of fluid inclusions in the Kurokô deposits, Japan; *Econ. Geol.*, v. 69, p. 947-953.
- Oka, Y., Kato, T. and Sasaki, M.
1964: Determination of gold in seawater by neutron activation analysis; *Nippon Kagaku Zasshi*, v. 85, no. 10, p. 643-647.
- Okhapkin, N.A. and Bozin, A.V.
1971: Trace elements as possible indicators of gold mineralization in the contact-metasomatic magnetite deposits of the Altai-Sayan folded region; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz. Miner. Syr'ya*, no. 114, p. 16-23. (Chem. Abstr., v. 79, 68678p.)
- Okko, V. and Peltola, E.
1958: On the Outokumpu boulder train; *Comm. Geol., Finl. Bull.*, no. 180, p. 113-134.
- Oleinikov, B.V.
1974: Geochemical trends in the behaviour of copper, lead, and gold during the evolution of tholeiite melts in intermediate-depth chambers; *Akad. Nauk. SSSR, Dokl.*, v. 218, p. 1204-1206. (Chem. Abstr., v. 82, 75665x.)
- Oleinikov, B.V. and Korobeinikov, A.F.
1974: Chief geochemical tendencies of gold in the evolution of basic rock melts under plutonic conditions; *Vop. Rudonosn. Yakutii*, G.N. Gamyranin, ed., p. 78-89. (Chem. Abstr., v. 84, 92919s.)
- Oleinikov, B.V., Vasil'ev, Yu.R., Korobeinikov, A.F., Nikishov, K.N. and Chesnokov, V.L.
1973: Gold in some rocks of mantle origin; *in Geol. Geokhim. Bazitov Vost. Chasti Sib. Platformy*, V.V. Koval'skii, ed., "Nauka", Moscow, p. 226-230. (Chem. Abstr., v. 80, 85637n.)
- Oliveira, E.P. de
1931: Origin of Jacutinga auriferous deposits; *Ann., Acad. Brasil. Cienc.*, v. 3, p. 151-157. (Chem. Abstr., v. 26, 3755.)
1932: Genesis of the deposits of auriferous Jacutinga; *Econ. Geol.*, v. 27, p. 744-749.
1937: A politica do ouro; Brazil, *Serv. Geol. Mineral., Bol. No. 73*, 46 p.
- Oliver, T.A.
1949: Ore minerals of the Berens River mine; *Can. Min. J.*, v. 70, p. 83-86.
- Ol'shevskiy, V.M.
1973: On the occurrence of aquamarine in gold-quartz veins of Karalveem deposit (west Chukotka); *Akad. Nauk. SSSR, Dokl.*, v. 212, p. 1208-1209. (Chem. Abstr., v. 80, 39191q.)
- 1975: Dependence of the relationship Ag/Au in near-surface gold-silver deposits on the composition of ore-enclosing rocks; *Akad. Nauk SSSR, Dokl.*, v. 224, no. 4, p. 925-928. (Chem. Abstr., v. 84, 76815z.)
- Olson, J.C., Shawe, D.R., Pray, L.C. and Sharp, W.N.
1954: Rare-earth mineral deposits of the Mountain Pass District, San Bernadino County, California; *U.S. Geol. Surv., Prof. Pap.* 261, 75 p.
- O'Neil, J.J. and Gunning, H.C.
1934: Platinum and allied metal deposits of Canada; *Geol. Surv. Can., Econ. Geol. Ser.*, no. 13, 165 p.
- O'Neil, J.R. and Silberman, M.L.
1974: Stable isotope relations in epithermal Au-Ag deposits; *Econ. Geol.*, v. 69, p. 902-909.
- O'Neil, J.R., Silberman, M.L., Fabbri, B.P. and Chesterman, C.W.
1973: Stable isotope and chemical relations during mineralization in the Bodie mining district, Mono County, California; *Econ. Geol.*, v. 68, p. 765-784.
- Ong, H.L. and Swanson, V.E.
1969: Natural organic acids in the transportation, deposition, and concentration of gold; *Colo. Sch. Mines, Q.*, v. 64, no. 1, p. 395-425.
- Ong, H.L., Swanson, V.E. and Bisque, R.E.
1970: Natural organic acids as agents of chemical weathering; *U.S. Geol. Surv., Prof. Pap.* 700-C, p. 130-137.
- Onishi, H.
1959: Spectrophotometric determination of traces of gold with rhodamine B; *Mikrochim. Acta*, Heft 1, p. 9-17.
- Orazbekov, G.T.
1971: Structure and zonality of quartz-barite type primary haloes in northern Kazakhstan gold mineralization; *Akad. Nauk Kaz. SSSR, Izv., Ser. Geol.*, v. 27, no. 3, p. 64-65. (Chem. Abstr., v. 75, 66116x.)
- Orlov, A.P., Robonen, V.I. and Kirilenko, G.M.
1969: Geological prospecting with ore-searching dogs; "Nedra", Moscow, 47 p.
- Orlova, Z.V.
1972: Heavy mineral concentrates and features of gold in the alluvial placers of west Chukotka; *Tr. Sev. Vost. Kompleks. Inst., Dal'nevost. Tsent. Aka.*, v. 44, p. 130-134. (Chem. Abstr., v. 81, 155818u.)
- Osipov, A.P.
1971: Distribution characteristics of the gold-silver deposits in the Okhotsk-Chukotsk volcanic belt; *Izv. Vyssh. Ucheb. Zaved., Geol. Razved.*, v. 14, no. 12, p. 71-76. (Chem. Abstr., v. 76, 74763s.)
- Osipov, A.P. and Sidorov, A.A.
1973: Features and perspectives of gold-rare metal formation; *Tr. Sev. Vost. Kompleks. Inst., Dal'nevost. Tsent., Akad. Nauk SSSR*, no. 55, p. 163-173. (Chem. Abstr., v. 84, 7595r.)
- Osokin, P.V.
1962: Results of metallometric prospecting for ores in the China-Amalat interfluvial in the Vitim plateau; *Mater. Geol. Polez. Iskop. Buryat. ASSR, Buryatsk. Geol. Upr.* no. 8, p. 61-76. (Chem. Abstr., v. 59, 11113c.)
- Ostrovskiy, E. Ya, Portnov, A.M. and Drabkin, I.E.
1970: Gamma ray radiation aerial surveys in prospecting for near-surface gold deposits; *Geol. Rud. Mestorozhd.* v. 12, no. 3, p. 87-91. *Also Int. Geol. Rev.*, v. 14, no. 7, p. 688-691.
- Ottemann, J. and Augustithis, S.S.
1967: Geochemistry and origin of "platinum-nuggets" in lateritic covers from ultrabasic rocks and birbrites of W. Ethiopia; *Miner. Deposita (Berl.)*, v. 1, p. 269-277.
- Ovchinnikov, L.N., ed.
1972: The ore resources of the Urals; *Izd. "Nauka" Publ. House, Moscow*, 185 p.
- Ovchinnikov, L.N., Baranov, E.N., Grigoryan, S.V. and Vostroknutov, G.A.
1972: Geochemical prospecting methods for ore deposits and their application in the Urals; *in Rud. Baza Urala*, L.N. Ovchinnikov, ed., "Nauka", Moscow, p. 67-91. (Chem. Abstr., v. 79, 68614q.)

- Ovchinnikov, L.N. and Grigoryan, S.V.
1971: Primary halos in prospecting for sulphide deposits; *in* Geochemical exploration, R.W. Boyle and J.I. McGerigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 375-380.
- Ovchinnikov, L.N., Sokolov, V.A., Fridman, A.I. and Yanitskii, I.N.
1973: Gaseous geochemical methods in structural mapping and prospecting for ore deposits; *in* Geochemical exploration, 1972, M.J. Jones, ed., Inst. Min. Metall. (London), p. 177-182.
- Overstreet, W.C. and Bell, H.
1960: Geochemical and heavy-mineral reconnaissance of the Concord S.E. Quadrangle, Cabarrus County, North Carolina; U.S. Geol. Surv., Mineral Invest. Field Studies, Map MF-235.
- Ozerova, N.A. et al.
1969: Recent mercury mineralization in the Mendeleev volcanic (Kurile Islands); Geol. Rud. Mestorozhd., v. 11, no. 5, p. 17-33. (Chem. Abstr., v. 73, 57956c.)
- Paar, W.
1976: Telluride der Gold-Nasturan-Paragenese von Mitterberg, Salzburg (Osterreich); Neues Jahrb. Mineral. Monatsh., Heft 5, S. 193-202.
- Pabst, A. and Stinson, M.C.
1960: Brannerite with gold from Plumas County, California; Geol. Soc. Am., Bull., v. 71, p. 2071-2072.
- Page, R.W. and McDougall, I.
1972: Ages of mineralization of gold and porphyry copper deposits in the New Guinea Highlands; Econ. Geol., v. 67, p. 1034-1048.
- Pagliuchi, F.D.
1925: Gold in southeastern Venezuela; Eng. Min. J., v. 120, p. 485-491.
- Pain, S.A.
1960: Three miles of gold: the story of Kirkland Lake; Ryerson Press, Toronto, 109 p.
- Palache, C., Berman, H. and Frondel, C.
1944: The system of mineralogy, v. 1, Elements, sulfides, sulfosalts, oxides; John Wiley & Sons, Inc., New York, 834 p.
1951: The system of mineralogy, v. 2, Halides, nitrates, etc.; John Wiley & Sons, Inc., New York, 1124 p.
- Palandzhyan, S.A. and Razin, L.V.
1974: Gold distribution in alpine-type massifs of ultrabasic and basic rocks of the Sevan ridge; Akad. Nauk Arm. SSR, Izv., Nauki Zemle, v. 27, no. 3, p. 25-37. (Chem. Abstr., v. 79, 138714c.)
- Palei, L.Z.
1968: Age and distribution characteristics of gold ores in central Asia; Int. Geol. Rev., v. 10, no. 7, p. 741-744.
1971: Distribution conditions of endogenous ores. Quantitative accounting for mineralogical-geochemical ore indicators in medium- and large-scale geological exploration forecasting; Metody Detal'nogo Kolichestvennogo Prognozirovaniya Endogennykh Rud. Polei Mestorozkd., S.I. Ibadullaev, ed., Nauch. Issled. Inst. Geol. Miner. Syr'ya, Tashkent, U.S.S.R., p. 60-62. (Chem. Abstr., v. 79, 138714c.)
- Palei, L.Z., Murovtsev, A.V. and Borozenets, N.I.
1967: Geochemistry of gold in Sultanuizdag; Uzb. Geol. Zh., v. 11, no. 6, p. 50-55. Also Geochem. Int., v. 4, no. 6, p. 1197-1201. (Chem. Abstr., v. 69, 4228x.)
- Palmer, C. and Bastin, E.S.
1913: Metallic minerals as precipitants of silver and gold; Econ. Geol., v. 8, p. 140-170.
- Palmer, W.S.
1935: Gold in petrified wood; Min. Metall., v. 16, p. 335.
- Pampura, V.D. and Trufanova, L.G.
1968: Lithium and cesium in zones of argillic alteration, Balcisk gold deposit (eastern Transbaikalia); Geochem. Int., v. 5, no. 4, p. 825-827.
- Pankov, V.P. and Chukhrov, F.V.
1962: Mineralogy of gold tellurium ores from the Manka deposit in the southern Altai; Mineral. Sb. L'vovsk. Geol. Obshchest. pri L'vovsk. Gos. Univ. 16, p. 195-209.
- Papish, J. and Stilson, C.B.
1930: Gallium IV: occurrence of gallium in zinc minerals; Am. Mineral., v. 15, p. 521-527.
- Papon, A. and Lemarchand, R.
1973: Geology and mineralization of southwestern Ivory Coast; Ivory Coast, Dir. Mines Geol., Bull., v. 6, p. 1-286. (Chem. Abstr., v. 82, 5962t.)
- Pardee, J.T.
1933: Placer deposits of the western United States; *in* Ore deposits of the western states; Am. Inst. Min. Eng., Lindgren Vol., p. 419-450.
1934: Beach placers of the Oregon Coast; U.S. Geol. Surv., Circ. 8, 41 p.
- Pardee, J.T. and Park, C.F.
1948: Gold deposits of the Southern Piedmont; U.S. Geol. Surv., Pap. 213, 156 p.
- Parès, Y. et Martinet, R.
1964: Intervention des bactéries dans le cycle de l'or. Etude biologique de phénomène; Bur. Rech. Geol. Min. (Fr.) Bull., no. 3, p. 1-29.
- Parilov, Yu. S. and Netaliyeva, T.D.
1973: Occurrence of silver in the form of halides in sphalerites of the lead-zinc deposits; Geochem. Int. v. 10, p. 336-338.
- Park, C.F.
1955: The zonal theory of ore deposits; Econ. Geol., 50th Anniv. Vol., p. 226-248.
1970: Review of U.S. Geol. Surv. Prof. Pap. 641-A, Physiographic, stratigraphic and structural development of the Quadrilatero Ferrifero, Minas Gerais, Brazil; Econ. Geol., v. 65, p. 523-524.
- Park, C.F. and MacDiarmid, R.A.
1970: Ore deposits; W.H. Freeman and Company, San Francisco, 522 p.
- Park, J.
1897: The geology and veins of the Hauraki goldfields; N.Z., Inst. Min. Eng., Session 1897, 105 p.
1908: The geology of the Cromwell subdivision, western Otago division; N.Z., Geol. Surv., Bull. No. 5, (New Series) 92 p.
1927: A textbook of mining geology; Charles Griffin and Co. Ltd., London.
- Park, W.C.
1966: Geochemistry of scandium, a brief review and its problems; J. Geol. Soc., Korea, v. 2, no. 2, p. 39-40.
- Parker, B.H.
1974: Gold placers of Colorado; Colo. Sch. Mines, Q., v. 69, no. 3, 268 p. and no. 4, 224 p.
- Parker, R.L.
1967: Composition of the earth's crust; U.S. Geol. Surv., Prof. Pap. 440-D, 19 p.
- Parr, R.M. and Taylor, D.M.
1963: Determination of gold in human liver by thermal neutron activation analysis; Physics in Medicine and Biology, v. 8, p. 43-50.
- Parsons, F.L.
1907: The coal-mining situation in northern Wyoming; Eng. Min. J., v. 84, p. 930-935.
- Parsons, G.E.
1948: Bidgood Kirkland mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 653-658.
- Pascal, P.
1957: Nouveau traité de Chimie Minérale; t. 8, Masson et Cie, Paris.
- Pasquali, Z.J. and Bisque, R.E.
1975: Interpretation of soil geochemical expression of mineralization within El Callao gold mining district, Venezuela; Colo. Sch. Mines, Q., v. 70, no. 1, p. 83-107. (Chem. Abstr., v. 83, 13493b.)

- Patterson, D.O. and Thomson, J.O.
1970: A study of the intermetallic compounds of gold and manganese through the use of the ^{197}Au Mössbauer effect at 4.2°K. and as a function of pressure; *Phys. Rev. B.*, v. 2, p. 2440-2448.
- Paule, R.C. and Mandel, J.
1972: Analyses of interlaboratory measurements on the vapour pressure of gold; *J. Pure Appl. Chem.*, v. 31, no. 3, p. 371-394.
- Paulo, A.J. and Salamon, W.
1973: Native gold in ore veins of the western part of Gory Kaczawskie Mountains (west Sudeten); *Mineral. Pol.*, v. 4, p. 85-91. (Chem. Abstr., v. 82, 173663q.)
- Pavlov, A.L. and Pavlova, L.K.
1971: Thermodynamic parameters of gold occurrence during ore formation; *Fiz. Fiz.-Khim. Rudoobrazuyushchikh Protessov*, G.L. Pospelov, ed., "Nauka", Sib. Otd. Novosibirsk, U.S.S.R., p. 121-147. (Chem. Abstr., v. 76, 143437c.)
- Pazderskii, V.A.
1974: Localization of gold mineralization at the Yuzhnoe gold-sulphide deposits (Kokpatas ore field), *Metallog. Geokhim. Uzb.*, p. 57-61. (Chem. Abstr., v. 82, 142806j.)
- Pazenkova, N.I.
1967: Germaniferous limonite-forming mechanism; *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 173, p. 204-206 (*Am. Geol. Inst. Transl.*).
- Pchelintseva, N.F. and Fel'dman, V.I.
1973: Gold in metamorphic rocks of Kokchetav Highland; *Geokhim.*, no. 12, p. 1846-1854. *Also Geochem. Int.*, v. 10, no. 6, p. 1357-1365.
- Peach, P.A.
1949: A decrepitation geothermometer; *Am. Mineral.*, v. 34, nos. 5-6, p. 413-421.
- Pegg, W.C.
1950: A contribution to the geology of the West Rand area; *Geol. Soc. S. Afr., Trans.*, v. 53, p. 209-227.
- Peirson, D.H., Cawse, P.A., Salmon, L. and Cambray, R.S.
1973: Trace elements in the atmospheric environment; *Nature*, v. 241, p. 252-256.
- Pelletier, R.A.
1940: Pyrrhotite as an enriching factor in Rand ores; *J. Chem. Metall. Min. Soc. S. Afr.*, v. 40, no. 11, p. 353-365.
1964: Mineral resources of south-central Africa; Oxford Univ. Press, Cape Town, 277 p.
- Penning, W.H.
1888: The South African goldfields; *J. R. Soc. Arts*, v. 36, p. 433-444.
- Percy, J. and Smith, R.
1854: On the detection of gold in lead and its compounds, *Phil. Mag.*, v. 7, p. 126-130.
- Pereira, J. and Dixon, C.J.
1964: Evolutionary trends in ore deposition; *Inst. Min. Metall., Trans.*, v. 74, pt. 9, p. 505-527.
- Perel'man, A.I.
1972: The geochemistry of elements in the zone of supergenesis; *Izdat. "Nedra"*, Moscow, 287 p.
- Perelyaev, A.P.
1953: Composition and structure of native gold; *Zap. Vses. Mineral. Obshchest.*, v. 82, p. 196-206. (Chem. Abstr., v. 48, 1904b.)
- Perelygina, A.I.
1972: Major types of gold ore deposits and occurrence in the Aldan Shield; *Izv. Vyssh. Uch. Zaved., Geol. Razved.*, v. 15, no. 4, p. 56-64. (Chem. Abstr., v. 77, 8190x.)
1973: Main types of gold-ore deposits and occurrences of the Aldan Shield; *Int. Geol. Rev.*, v. 15, no. 1, p. 19-24.
- Pereyaslov, V.P.
1970: Reliable bulk sampling during prospecting for placer gold; *Mater. Metod. Tekh. Geologorazved. Rob.*, no. 2, p. 76-78. (Chem. Abstr., v. 77, 142305s.)
- Perez, Re. J.
1969: Investigaciones auríferas en la provincia de Cáceres; *Bol. Geol. Minero*, v. 80, no. 2, p. 131-145.
- Peshchevitskii, B.I., Anoshin, G.N. and Erenburg, A.M.
1965: Chemical forms of gold in seawater; *Akad. Nauk SSSR, Dokl.*, v. 162, no. 4, p. 915-917. (Engl. transl. in *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 162, nos. 1-6, p. 205-207.)
1970: Chemical forms of gold in sea water and problems of the redox potential of sea water; *Khim. Resur. Morei Okeanov*, Nauka Moscow, U.S.S.R., S.V. Bruevich, ed., p. 141-144.
- Peterson, D.W., Yeend, W.E., Oliver, H.W. and Mattick, R.E.
1968: Tertiary gold-bearing channel gravel in northern Nevada County, California; *U.S. Geol. Surv., Circ.* 566, 22 p.
- Peterson, U.
1964: Synthetic and natural phases in the system Au-Ag-Te; *Econ. Geol.*, v. 59, p. 1390-1394.
1970: Metallogenic provinces in South America; *Geol. Rund.*, v. 59, no. 3, p. 834-897.
- Petrov, B.V., Krendelev, F.P., Bobrov, V.A., and Tsimbalist, V.G.
1972: Behaviour of radioactive elements and gold during metamorphism of the Patomsk Highland sedimentary rocks; *Geokhim.*, no. 8, p. 947-956. *Also Geochem. Int.*, v. 9, no. 4, p. 647-655.
- Petrov, B.V., Krendelev, Ph. P., Bobrov, V.A. and Tsimbalist, V.T.
1970: The behaviour of radioactive elements and gold during sedimentary rock metamorphism in the Patom Highland; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1969, L.V. Tauson, ed., p. 115-119.
- Petrov, B.V. and Makrighina, V.A.
1971: The geochemistry of the regional metamorphism in high pressure conditions; *Int. Geochem. Congr., Moscow, Abstracts of Reports II*, p. 446-447.
- Petrov, P.A.
1962: Evaluation of the gold content in a region from the alluvium; *Tr. Sib. Nauch. Issled. Inst. Geol., Geofiz., Mineral'n Syr'ya*, no. 25, p. 195-197. (Chem. Abstr., v. 59, 1386d.)
- Petrov, V.G.
1974: Environment of gold ore deposits in the northern part of the Yenisei Range; *Acad. Sci. USSR, Sib. Br., Trans. Inst. Geol. Geophys. No. 69*, "Nauka" Publ. House Siberian Div. Novosibirsk, 138 p.
- Petrov, Yu. I.
1972: Topogeochemistry of the Muruntau gold ore deposit in central Asia; *Lithogeokhimicheskie Metody Poiskakh Skrytogo Orudneniya*, L.N. Ovchinnikov, ed., p. 38-41. (Chem. Abstr., v. 81, 80405w.)
- Petrovskaya, N.V.
1955: Productive mineral associations in gold deposits; *Reps. All Soviet Min. Soc. No. 3*, p. 290-307 (in Russian).
1960: Character of auriferous mineral associations and formation of gold ores in U.S.S.R.; 21st Int. Geol. Congr., Copenhagen, Genetic Prob. Ores, Contrib. Sov. Geol. p. 145-158.
1968: Auriferous formations of Uzbekistan; *Geol. Rud. Mestorozhd.*, v. 10, no. 3, p. 3-16. *Also Econ. Geol.*, v. 65, p. 75.
1970: Redeposition of gold and quartz during formation of gold deposits; *Izv. Tomsk. Politekh. Inst.*, v. 239, p. 133-139. (Chem. Abstr., v. 75, 111606v.)
1971: Growth and subsequent changes in gold crystals; *Mineral. Soc. Japan, Spec. Pap. 1*, p. 116-123.
1973: Native gold; *Izd. "Nauka"*, Moscow, 347 p.
- Petrovskaya, N.V., ed.
1974: Mineralogy and geochemistry of gold; *Tezisy Dok. Simp. Mineral. Geokhim Zolota*, vols. 1 and 2, *Akad. Nauk SSSR Dal'nevost Nauch. Tsent., Vladivostok, U.S.S.R.*

- Petrovskaya, N.V., Bernshtein, P.S., Mirchink, S.G. and Andreeva, M.G.
1961: Geological structure, mineralogy, and characteristics of genesis of gold ore deposits of the Balei ore field (eastern Transbaikalia); Tr. Tsentr. Nauch. Issled. Gornorazved. Inst., no. 45, pt. I, 97 p. (Chem. Abstr., v. 58, 360g.)
- Petrovskaya, N.V., Elinson, M.M. and Nikolaeva, L.A.
1971a: Composition and formation conditions of gas inclusions in native gold; Int. Geochem. Congr., Moscow, U.S.S.R., Abstracts of Reports I, p. 326-327.
- Petrovskaya, N.V. and Fastalovich, A.I.
1955: Changes in the internal texture of native gold buried in placers; Vop. Geol. Azii, no. 2, p. 245-256.
- Petrovskaya, N.V., Konstantinov, R.M. and Sirotinskaya, S.V.
1971b: Quantitative study of similarity in mineral composition of gold deposits; Sov. Geol., v. 14, no. 4, p. 1-22. (Chem. Abstr., v. 75, 23810b.)
- Petrovskaya, N.V., Lyuttsau, V.G., Frolova, K.E., Laputina, I.P. and Vasil'eva, G.V.
1971c: Heterogeneity in native gold; Vop. Odnorodnosti Neodnorodnosti Miner., F.V. Chukhrov, ed., "Nauka", Moscow, U.S.S.R., p. 44-62. (Chem. Abstr., v. 77, 91087n.)
- Petrovskaya, N.V., Novgorodova, M.I., Frolova, K.E. and Gorshkov, A.I.
1976: New data on the composition of phases in heterogeneous segregations of native gold; Izv. Akad. Nauk SSSR, Ser. Geol. no. 3, p. 67-73. (Chem. Abstr., v. 85, 49355p.)
- Petrovskaya, N.V., Novikov, V.M., Fomin, P.S., Frolova, K.E. and Evstigneyeva, T.L.
1971d: Specific characteristics of native gold as the indicator of subsurface Tertiary deposits in the Lower Amur region; Geol. Rud. Mestorozhd., v. 13, no. 1, p. 17-27.
- Petrovskaya, N.V., Timofeevskii, D.A. and Borodaevskii, N.I.
1974: Endogenic zoning of gold ore fields and deposits; Zon. Gidroterm. Rud. Mestorozhd. (Zoning of hydrothermal ore deposits), v. 2, G.A. Sokolov, ed., "Nauka", Moscow, U.S.S.R., p. 86-122.
- Petrulian, N.S.
1934: Gisement aurifère de Rosia-Montana et du gisement de plomb et de zinc de Herja (Transylvanie, Roumanie); M.O., Imprimerie Nat., Bucarest, 83 p.
- Petty, J.W.
1968: Recovery of precious metals from oil shale; U.S. Patent 3,383,201. (Chem. Abstr., v. 69, 20963u.)
- Peyton, A.L. and Lynch, V.J.
1953: Investigation of the Brewer topaz deposit Chesterfield County, S.C.; U.S. Bur. Mines, Rep. Invest. 4992, 19 p.
- Phan, K.D.
1965: Enquête sur l'or dans les roches; Chron. Mines Rech. Minière, no. 343, p. 175-188.
- Phaup, A.E.
1964: Gold mines in southern Rhodesia—introduction; in The geology of some ore deposits in southern Africa, vol. 2, S.H. Haughton, ed., Geol. Soc. S. Afr., Johannesburg, p. 1-7.
- Phillips, J.A.
1896: A treatise on ore deposits; MacMillan and Co., Ltd., London, 943 p.
- Pickering, T.
1935: Mineralized crush zones in Gold Coast Colony; Mining Mag., v. 53, no. 6, p. 329-336.
- Pienaar, P.J.
1963: Stratigraphy, petrology, and genesis of the Elliot Group, Blind River, Ontario, including the uraniferous conglomerate; Geol. Surv. Can., Bull. 83, 140 p.
- Pilkey, O.H. and Bornhold, B.D.
1970: Gold distribution on the Carolina continental margin—a preliminary report; U.S. Geol. Surv., Prof. Pap. 700-C, p. C30-C34.
- Pimm, A.C.
1967: Bau Mining District, West Sarawak, East Malaysia, pt. 2 Krokong; Malaysia, Geol. Surv., Borneo Region, Bull. 7, pt. 2, 97 p.
- Piper, D.Z. and Graef, P.A.
1974: Gold and rare-earth elements in sediments from the East Pacific Rise; Mar. Geol., v. 17, p. 287-297.
- Pisemskii, G.V. and Pletnev, A.G.
1972: Metallogenesis of gold of the Ukrainian crystalline Shield; Sov. Geol., no. 10, p. 67-79.
- Pisemskii, G.V., Sher, S.D., Zhadnova, T.P. and Ganzha, L.M.
1974: Types of gold ore manifestations and prospecting criteria of gold mineralization in the basement of the Russian platform; Sov. Geol., no. 7, p. 47-55. (Chem. Abstr., v. 82, 19509n.)
- Pitul'ko, V.M.
1973: Distribution of immobile and mobile forms of chemical elements in biogeochemical dispersion haloes of ore deposits in the subarctic region; Pochvy Rastit Merzlotnykh Raionov SSSR, Mater Vses. Simp. "Biol. Probl. Sev.", 5th, 1972, p. 364-368. (Chem. Abstr., v. 82, 75587y.)
- Pitul'ko, V.M.
1976: Behaviour of gold in oxidation zone of deposits of the Soviet Far North; Geokhim., no. 4, p. 569-576.
- Plaksin, I.N. and Troitskii, A.V.
1949: Central Siberia—base for the production of ferrous and nonferrous metals; Gorn. Zh., v. 123, no. 1, p. 5-8. (Chem. Abstr., v. 44, 88b.)
- Plant, J. and Coleman, R.F.
1973: Application of neutron activation analysis to the evaluation of placer gold concentrations; in Geochemical exploration 1972, M.J. Jones, ed., Inst. Min. Metall. (London), p. 373-381.
- Plecash, J., Hopper, R.V. et al.
1963: Operations at La Luz mines and Rosita mines, Nicaragua, Central America; Can. Inst. Min. Metall., Bull., v. 56, no. 616, p. 624-641.
- Pletnev, A.G.
1972: Gold content in the Likhmanovsk syncline ferruginous-siliceous formation of the Krivoi Rog area; Geol. Zh., v. 32, no. 2, p. 139-141. (Chem. Abstr., v. 76, 143402n.)
- Pliny the Elder (Gaius Plinius Secundus)
79 A.D.: Historia naturalis, Book XXXIII, Aurum, Roma.
- Pokrovskii, E.V.
1968: The gold content of Middle-Upper Cambrian sediments of southwestern part of the Siberian Platform; Geol. Geofiz., no. 11, p. 115-120.
- Pokrovskii, P.V. and Berzon, R.O.
1975: Composition of copper and silver gold from the deposit Zolotaya Gora; Ezheg., Inst. Geol. Geokhim., Akad. Nauk SSSR, Ural. Nauchn. Tsentr., 1974, p. 94-97. (Chem. Abstr., v. 86, 7236r.)
- Polański, A.
1948: A new essay of evaluation of the chemical composition of the earth; Soc. Amis Sci. Lett. Poznań Bull., Ser. B., v. 9, P. 25-46.
- Polikarpochkin, V.V.
1973: The interrelation of types of zonalities of gold-bearing mineralization in the Lena region; Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR, 1972, L.V. Tauson, ed., p. 287-288.
- Polikarpochkin, V.V. and Kitaev, N.A.
1971: Endogenic haloes of epithermal gold-bearing deposits; in Geochemical exploration, Can. Inst. Min. Metall., Spec. Vol. 11, R.W. Boyle and J.I. McGerrigle, eds., p. 381-383.
- Polikarpochkin, V.V., Kitaev, N.A., Gapon, A.E. and Zontov, V. I.
1971: The geochemical particularities of formation processes of gold-bearing quartz-sulphide veins and zones; Int. Geochem. Congr., Moscow, Abstracts I, p. 376-377.

- Polikarpochkin, V.V., Kitaev, N.A. and Sarapulova, V.N.
1965: Structure and vertical zonation of the primary dispersion aureoles at the Balei gold deposits; *Geokhim.*, no. 8, p. 1024-1037. *Also* *Geochem. Int.*, v. 2, no. 4, p. 741-753.
- Polikarpochkin, V.V. and Korotayeva, I.Ya.
1976: Gold distribution in sedimentary rocks of the Undino-Dainsk depression (eastern Transbaikalian region); *Geokhim.*, no. 3, p. 396-403.
- Polikarpochkin, V.V., Korotayeva, I.Ya. and Gapon, A.E.
1969: The concentration of chemogenic gold in sedimentary formations; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1968, L.V. Tauson, ed., Irkutsk, p. 240-245.
- Polikarpochkin, V.V., Voloskova, S.E., Konstantinova, I.M. and Korotayeva, I.Ya.
1974: The use of the hydrogeochemical method for gold ore deposit prospecting in the Lena region; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1973, L.V. Tauson, ed., p. 263-266.
- Polkanov, Yu. A. and Yalovenko, I.P.
1970: Finds of gold in coastal and estuary sands on the northwestern shore of the Black Sea; *Akad. Nauk SSSR, Dokl.*, v. 191, no. 4, p. 905-908. (*Chem. Abstr.*, v. 73, 27540v.)
- Poltorikhin, P.I.
1974a: Gold content of pyrites in the Kalba gold belt; *Int. Geol. Rev.*, v. 16, no. 2, p. 154-155.
1974b: Geochemical characteristics of the northwestern part of the Kalba gold-ore belt; *Geokhim.*, no. 9, p. 1331-1341. *Also* *Geochem. Int.*, v. 11, no. 5, p. 927-936.
- Poltorikhin, P.I. and Mukanov, K.M.
1970: Geochemical prerequisites in prospecting for gold deposits in western Kalba; *Akad. Nauk. Kaz. SSR, Izv. Ser. Geol.*, v. 27, no. 3, p. 25-29. (*Chem. Abstr.*, v. 73, 79382q.)
- Polyakov, V.D.
1959: Formation of foam and analysis of slime in the Kara-Bogaz-Gol Bay; *Prob. Kompleks. Ispol'zovan Mineral. Bogatstv Kara-Bogaz-Gola, Acad. Nauk. Turkmen. SSR*, p. 325-328. (*Chem. Abstr.*, v. 56, 7062d.)
- Polyanitsyn, A.V.
1973: Model of gold-ore deposit dispersion flow; *Ezheg., Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1972, L.V. Tauson, ed., p. 330-334. (*Chem. Abstr.*, v. 82, 33369y.)
- Pomârleanu, V., Movileanu, A., Mihalka, J. and Mihalka, S.
1972: Beitrag zum Studium der hydrothermal en Erzlagers-tätte Vâratic (Baia Mare, Rumänien); *Chem. Erde*, Bd. 31, p. 275-285.
- Popenko, G.S.
1970a: Internal and submicrostructures of gold in Quaternary formations of the Muruntau deposit; *Zap. Uzb. Otd. Vses. Mineral. Obshchest.*, no. 23, p. 62-65.
1970b: Comparative characteristics of gold from placer and hard-rock deposits in Tamynd Mountains, western Uzbekistan; *Zap. Uzb. Otd. Vses. Mineral. Obshchest.*, no. 21, p. 63-68. (*Chem. Abstr.*, v. 74, 101602f.)
- Popenko, G.S., Tsyapkina, P.E. and Nikolaeva, L.A.
1973: Composition and internal structure of gold in the Quaternary placers of the Chirchik River basin; *Zap. Uzb. Otd. Vses. Mineral. Obshchest.*, no. 26, p. 117-119. (*Chem. Abstr.*, v. 80, 50476g.)
- Popkov, N.N.
1961: Gold mineralization in skarns of the northern Tien-Shan; *Zap. Kirgizsk. Otd. Vses. Mineralog. Obshchest.*, no. 2, p. 47-64. (*Chem. Abstr.*, v. 58, 13619c.)
- Popov, V.M.
1972: Gold-pyrite-complex metal deposits in the Baimak region of Bashkiria and some characteristics of their localization; *Mater. Geol. Polez. Iskop. Yuzhn. Urala*, v. 5, p. 177-182. (*Chem. Abstr.*, v. 82, 173643h.)
1975: On the geochemistry of gold in the Upper-Jurassic halogen formation of south Central Asia; *Akad. Nauk SSSR, Dokl.*, v. 224, no. 4, p. 929-932.
- Popova, L.M.
1971: Application of spectrochemical methods for the determination of gold during hydrogeochemical investigations; *Geol. Geofiz.*, no. 5, p. 135-138. (*Chem. Abstr.*, v. 76, 88538j.)
- Popova, V.I.
1972: Evolution of growth forms of pyrite crystals from the Bereznovsk gold ore deposit in the Ural Mountains; *Tr. Sverdlovsk. Gorn. Inst.*, v. 86, p. 109-111. (*Chem. Abstr.*, v. 83, 19438j.)
- Popova, V.S. and Mushchinskaya, N.A.
1973: Concentration of antimony and gold rich ores; *Nauch. Tr. Sredneaz. Proekt. Tsvet. Metall.*, no. 7, p. 52-56. (*Chem. Abstr.*, v. 82, 158921d.)
- Popovic, A.
1954: Noble metals in the ash of some coals of the Timok basin; *J. Chem. Soc., Belgrade*, v. 19, p. 305-307 (Engl. summary).
- Portnov, A.M., Ostrovskii, E.Ya. and Kolotov, B.A.
1971: Prospecting for near-surface gold-silver deposits by aerial gamma-spectrometric and hydrogeochemical methods; *Razved. Okhr. Nedr.*, v. 37, no. 11, p. 13-16. (*Chem. Abstr.*, v. 76, 61759v.)
- Pošepný, F.
1902: The genesis of ore deposits, 2nd ed.; *Am. Inst. Min. Eng.*, New York, 806 p.
- Potapenko, G.M., Yakubov, O.K. and Kislyi, B.I.
1968: Deep-seated aurimetric survey in composite prospecting for gold in northern Kazakhstan; *Geofiz. Issled.*, p. 284-291. (*Chem. Abstr.*, v. 72, 14579u.)
- Potap'ev, V.V., Anoshin, G.N. and Malikova, I.N.
1968: Gold and tantalum in ore-bearing and ore-free granitic massifs; *Metallogen. Magmat. Tyan-Shanya*, p. 277-278. (*Chem. Abstr.*, v. 72, 14735s.)
- Pourbaix, M. *et al.*
1963: *Atlas D'équilibres électrochimiques*; Gauthier-Villars & Cie., Paris, 644 p.
- Povarennykh, A.S. and Rusakova, L.D.
1973: The new mineral kafehydrocyanite; *Geol. Zh.*, v. 33, p. 24-30.
- Poznyak, V.O.
1968: Variscite in a gold ore deposit of western Chukotka; *Izv. Vyssh. Ucheb. Zaved., Geol. Razved.*, v. 11, no. 4, p. 145-147. (*Chem. Abstr.*, v. 69, 29188c.)
- Prashnowsky, A.A. and Schidlowski, M.
1967: Investigation of Precambrian thucholite; *Nature*, v. 216, p. 560-563.
- Presant, E.W.
1971: Geochemistry of iron, manganese, lead, copper, zinc, arsenic, antimony, silver, tin, and cadmium in the soils of the Bathurst area, New Brunswick; *Geol. Surv. Can., Bull.* 174, 93 p.
- Prest, V.K.
1949: The Pleistocene geology of the Vermillion River system near Capreol, District of Sudbury, Ontario (with special reference to placer gold); *Ont. Dep. Mines, Prelim. Rep.*, 1949-2, 8 p.
- Pretorius, D.A.
1964: The geology of the Central Rand goldfield; *in* The geology of some ore deposits in southern Africa, v. 1, S.H. Haughton, ed.; *Geol. Soc. S. Afr., Johannesburg*, p. 63-111.
1966: Conceptual geological models in the exploration for gold mineralization in the Witwatersrand Basin; *Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ.*, no. 33, 39 p.
1974a: Nature of the Witwatersrand gold-uranium deposits; *Univ. Witwatersrand, Econ. Geol. Res. Unit*, v. 86, p. 1-50.
1974b: Gold in the Proterozoic sediments of South Africa. Systems, paradigms, and models; *Univ. Witwatersrand, Econ. Geol. Res. Unit*, v. 87, p. 1-22.
1975: The depositional environment of the Witwatersrand goldfields: a chronological review of speculations and observations; *Miner. Sci. Eng.*, v. 7, no. 1, p. 18-47.

- Price, P.
1934: The geology and ore deposits of the Horne mine, Noranda, Quebec; Can. Inst. Min. Metall., Trans., v. 37, p. 108-140.
1948: Horne mine in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 763-772.
- Price, P. and Bray, R.C.E.
1948: Pamour mine; in Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 558-565.
- Prochnau, J.F.
1971: Distribution and mode of occurrence of gold in the Chibougamau district, Quebec; unpubl. M.Sc. thesis, McGill Univ., Montreal, 134 p.
- Prokopenko, N.M.
1941: Principal stages in the history of indium in the earth's crust; Acad. Sci. USSR, Dokl., v. 31, p. 903-906.
- Prokuronov, P.V.
1975: Alluvial gold placers in the high-mountain deeply-dissected topographical environments. Transportation range of gold-particles in the instance of North Caucasus; Akad. Nauk SSSR, Izv., Ser. Geol., no. 5, p. 137.
- Prosnjakov, M.P., Chetyrbotskaya, I.I. and Berengilova, V.V.
1972: Ratio of gold and silver as an important prospecting feature during an appraisal of a gold-ore mineralization; Razved. Okhr. Nedr., v. 38, no. 3, p. 8-14. (Chem. Abstr., v. 77, 8259b.)
- Proust, G.P.
1920: L'or—prospection, gisement, extraction; Gauthier-Villars et Cie, Éditeurs, Paris, 319 p.
- Pryor, R.N., Rhoden, H.N. and Villalón, M.
1972: Sampling of Cerro Colorado, Rio Tinto, Spain; Inst. Min. Metall., Trans., Sec. A, v. 81, p. 143-159.
- Pryor, T.
1923—The underground geology of the Kolar gold field; Inst. 1924: Min. Metall., Trans., v. 33, p. 95-115.
- Purington, C.W.
1903: Ancient gold mining; Eng. Min. J., v. 75, p. 437.
- Purkayastha, B.C. and Das, N.R.
1965: On the study of recovery of gold from sea water; Sci. Cult., v. 31, no. 8, p. 403-407.
- Purushottam A., Naidu, P.P. and Lal, S.S.
1973: Solvent extraction-cum-atomic absorption spectrophotometric determination of traces of gold in rocks, minerals and ores; Curr. Sci. v. 42, no. 10, p. 367.
- Putnam, G.L.
1953: The gold content of sea water; J. Chem. Educ., v. 30, p. 576-579.
- Putzer, H.
1976: Metallogenetische Provinzen in Südamerika; E. Schweizerbart'sche, Verlagsbuchhandlung, Stuttgart, 316 p.
- Pye, E.G.
1952: Geology of Errington Township, Little Long Lac area; Ont. Dep. Mines, Annu. Rep., 1951, v. 60, pt. 6, 140 p.
- Pyke, D.R.
1975: On the relationship of gold mineralization and ultramafic volcanic rocks in the Timmins area; Ont. Div. Mines, Misc. Pap. 62, 23 p.
1976: On the relationship between gold mineralization and ultramafic volcanic rocks in the Timmins area, north-eastern Ontario; Can. Inst. Min. Metall., Bull., v. 69, no. 773, p. 79-87.
- Quin, B.F., Brooks, R.R. and Boswell, C.R.
1973: Plant and soil indicators of quartz reefs in the Maratoto Valley; N.Z., J. Sci., v. 16, no. 3, p. 737-746.
- Quinn, H.A.
1964: Geology and mineral resources of Ethiopia; World Mining, v. 17, no. 2, p. 34-41 and v. 17, no. 3, p. 31-35.
- Quiring, H.
1954: Schalenbau der Erde und sphärogene Erze; C. R. Congr. Geol. Int. 19e, Alger, Sec. 13, pt. 3, Fasc. 15, p. 431-438.
- Rabenau, A. and Rau, H.
1968: Hydrothermale Züchtung von Goldkristallen; Naturwissenschaften, v. 55, no. 7, p. 336-339.
- Rabenau, A., Rau, H. and Rosenstein, G.
1970: Telluride halides of gold; J. Less-Common Metals, v. 21, p. 395-401.
- Rabinovich, K.R., Akchurina, V.N. and Bulynnikov, V.A.
1972: Ore shoots and zoning in gold ore deposits; Probl. Obrazov. Rud. Stolbov. Mater. Simp. 1969, F.N. Shak-hov, ed., "Nauka" Sib. Otd. Novosibirsk U.S.S.R., p. 75-81. (Chem. Abstr., v. 79, 33575a.)
- Radanova, T.G. and Karadzhoval, B.
1971: On the distribution of lithium, rubidium and cesium in the propylites and secondary quartzites from Spahievo ore field, Bulgaria; Int. Geochem. Congr., Moscow, Abstracts of Reports I, p. 411-412.
- Radkevich, Ye. A.
1961: On the types of metallogenic provinces and ore districts; Int. Geol. Rev., v. 3, no. 9, p. 759-783.
- Radkevich, Ye. A., ed.
1966: Genetic characteristics and general relationships in the development of gold mineralization in the Far East; "Nauka", Moscow, 204 p.
1969: The gold ore formations of the Far East; Izd. "Nauka" Publ. House, Moscow, 139 p.
- Radkevich, Ye. A., Usenko, S.F. and Chebotarev, M.V.
1965: On the relations of tin and gold mineralization to the main structural elements of the southern part of the far east; Geol. Geofiz., no. 3, p. 25-38.
- Radtke, A.S. and Dickson, F.W.
1974: Controls on the vertical position of fine-grained replacement-type gold deposits; Abstracts of Papers, Int. Assoc. Genesis Ore Deposits (IAGOD), 4th Symp., Varna, Bulgaria, p. 68-69.
1975: Carlinite, Ti_2S , a new mineral from Nevada; Am. Mineral., v. 60, p. 559-565.
1976a: Genesis of Carlin-type gold deposits in the framework of tectonic evolution of the Basin and Range province; Econ. Geol., v. 71, p. 702 (abstr.).
1976b: Genesis and vertical position of fine-grained disseminated replacement-type gold deposits in Nevada and Utah, U.S.A.; in Problems of ore deposition, v. 1, Volcanogenic ore deposits, 4th IAGOD Symp., Varna, B. Bogdanov, ed., Bulgarian Acad. Sci., Sofia, p. 71-78.
- Radtke, A.S., Heropoulos, C., Fabbri, B.P., Scheiner, B.J. and Essington, M.
1972a: Data on major and minor elements in host rocks and ores, Carlin gold deposit, Nevada; Econ. Geol., v. 67, p. 975-978.
- Radtke, A.S. and Scheiner, B.J.
1970a: Influence of organic carbon on gold deposition at the Carlin and Cortez deposits, Nevada; Econ. Geol., v. 65, p. 739-740 (abstr.).
1970b: Studies of hydrothermal gold deposition (I). Carlin gold deposit, Nevada, The role of carbonaceous material in gold deposition; Econ. Geol., v. 65, p. 87-102.
1971: Cation exchange capacity and metal deposition: a suggestion—a reply; Econ. Geol., v. 66, p. 201.
- Radtke, A.S., Taylor, C.M. and Christ, C.L.
1972b: Chemical distribution of gold and mercury at the Carlin deposit, Nevada; Econ. Geol., v. 67, p. 1009 (abstr.).
- Radtke, A.S., Taylor, C.M., Dickson, F.W. and Heropoulos, C.
1974a: Thallium-bearing orpiment, Carlin gold deposit, Nevada; U.S. Geol. Surv., J. Res., v. 2, no. 3, p. 341-342.
- Radtke, A.S., Taylor, C.M., Erd, R.C. and Dickson, F.W.
1974b: Occurrence of lorandite, TiAsS_2 , at the Carlin gold deposit, Nevada; Econ. Geol., v. 69, p. 121-123.
- Radtke, A.S., Taylor, C.M. and Frost, J.E.
1967: Bismuth and tin minerals in gold-and silver-bearing sulfide ores, Ohio mining district, Marysville, Utah, U.S. Geol. Surv., Prof. Pap. 575-D, p. 127-130.

- Radtke, A.S., Taylor, C.M. and Heropoulos, C.
1973: Antimony-bearing orpiment, Carlin gold deposit, Nevada; *J. Res., U.S. Geol. Surv.*, v. 1, no. 1, p. 85-87.
- Raeburn, C. and Milner, H.B.
1927: Alluvial prospecting; Thomas Murby & Co., London, 478 p.
- Raicevic, D. and Cabri, L.J.
1976: Mineralogy and concentration of Au- and Pt-bearing placers from the Tulameen River area in British Columbia; *Can. Inst. Min. Metall., Bull.*, v. 69, p. 111-119.
- Rajan, S.C.S. and Raju, N.A.
1975: Titrimetric determination of gold by precipitation with hydroquinone; *Talanta*, v. 22, p. 185-189.
- Rakhmatullaev, Kh. R.
1970: Relation of Hercynian gold and mercury ore formations in southern Tien-Shan; *Uzb. Geol. Zh.*, v. 14, no. 4, p. 77-82 (*Chem. Abstr.*, v. 74, 33484s.)
1972: Caledonian and Hercynian epochs of gold ore mineralization in western Uzbekistan (as illustrated by the Kokpatas ore field); *Nek. Itogi Petrometallogenicheskikh Issled. Uzb.*, p. 154-170. (*Chem. Abstr.*, v. 84, 7619b.)
- Rakhmatullaev, Kh.R. and Gamaleev, I.E.
1964: Elements indicating gold mineralization in western Uzbekistan; *Akad. Nauk Uzb. SSR, Dokl.*, v. 21, no. 6, p. 38-41. (*Chem. Abstr.*, v. 62, 340c.)
- Rakhmatullaev, Kh.R. and Sher, S.D.
1969: The metasomatic wall rock alteration in the Muruntau ore deposits; in *The gold deposits and principle features of the metallogeny of gold in Uzbekistan*, I. Kh. Khamrabayev, ed.; "Fan" Publ. Off., Uzbek S.S.R., Tashkent, p. 173-176.
- Ramdohr, P.
1953a: Maldonit; *Sitzungsber. Deut. Akad. Wiss. Berlin, Kl. Math. Naturwiss.*, no. 5, p. 3-8.
1953b: Über Metamorphose und sekundäre Mobilisierung; *Geol. Rundsch.*, v. 42, pt. 1, p. 11-19.
1955: Neue Beobachtungen an Erzen des Witwatersrandes in Süd Afrika und ihre genetische Bedeutung; *Abh. Deut. Akad. Wiss. Berlin*, v. 5, p. 1-55.
1958a: New observations on the ores of the Witwatersrand in South Africa and their genetic significance; *Geol. Soc. S. Afr., Trans., (Annex.)*, v. 61, p. 1-51.
1958b: Die uran- und goldlagerstätten Witwatersrand-Blind River District-Dominion Reef-Serra de Jacobina; *Deut. Akad. Wiss. Berlin, Abh.*, 35 p.
1960: Die Erzminerale und ihre Verwachsungen; 3rd ed. Akademie Verlag, Berlin, 1089 p. (*Transl.—The ore minerals and their intergrowths*, Pergamon Press, Oxford, 1969, 1174 p.)
1965: Rheingold als Seifenmineral; *Jahrb. Geol. Landesamt Baden-Württemberg*, v. 7, p. 87-95.
1967: The wide-spread paragenesis of ore minerals originating during serpentinization; *Geol. Rud. Mestorozhd.*, no. 2, p. 32-43.
1973: The opaque minerals in stony meteorites; Elsevier Publishing Co., Amsterdam, 245 p.
- Ramdohr, P. and Udubasa, G.
1973: Frobergite in gold ore deposits of Sacaramb and Fata Baii (Romania); *Miner. Deposita (Berl.)*, v. 8, no. 2, p. 179-182. (*Chem. Abstr.*, v. 79, 116903g.)
- Ramović, M.
1968: Principles of metallogeny; *Geogr. Inst., Nat. Sci. Fac., Univ. Sarajevo, Yugoslavia*, 271 p.
- Ramsay, W.R.H. and Kobe, H.W.
1974: Great Barrier Island silver-gold deposits, Hauraki Province, New Zealand; *Miner. Deposita (Berl.)*, v. 9, p. 143-153.
- Randall, J.A.
1973: Silver-gold ratios related to copper mineralization at the Anglo-Rouyn mine, Saskatchewan; *Program and Abstracts, Geol. Assoc. Can.—Can. Soc. Pet. Geol. and Mineral Assoc. Can., Annu. Meet.—Arctic Symp.—Cretaceous Colloq.*, May 23-26, Univ. Sask., Saskatoon, p. 89 (abstr.).
- Rankama, K., ed.
1963—The Precambrian; 4 vols., Interscience Publishers, 1970: New York.
- Rankama, K. and Sahama, Th.G.
1950: *Geochemistry*; Univ. Chicago Press, Chicago, 912 p.
- Ransome, F.L.
1901: A report on the economic geology of the Silverton Quadrangle, Colorado; *U.S. Geol. Surv., Bull. no. 182*, 265 p.
1909: The geology and ore deposits of Goldfield, Nevada; *U.S. Geol. Surv., Prof. Pap.* 66, 258 p.
1910: Geology and ore deposits of the Goldfield district, Nevada; *Econ. Geol.*, v. 5, p. 301-311, 438-470.
- Rao, B.K. and Srinivasan, R.
1971: Ore environment and ore genesis in Ramagiri goldfield, Andhra Pradesh, India; *Econ. Geol.*, v. 66, p. 1083-1084.
- Rast, N. and Grant, R.
1973: Transatlantic correlation of the Variscan-Appalachian orogeny; *Am. J. Sci.*, v. 273, p. 572-579.
- Rayner, E.O.
1969: The copper ores of the Cobar region, New South Wales; *N.S.W., Geol. Surv., Mem.* 10, 131 p.
- Raynor, G.V.
1976: The alloying behaviour of gold; *Gold Bull.*, v. 9, pt. 1, p. 12-19, pt. 2, p. 50-54.
- Razakov, N.I. and Galaktionova, G.F.
1962: On the mode of occurrence of gallium in the oxidized zone of sulfide deposits; *Geochemistry*, no. 1, p. 104-108.
- Razin, L.V. and Begizov, V.D.
1973: Gold-silver mineralization in the Talnakh and Oktaybr'sk ore deposits; *Geol. Rud. Mestorozhd.*, v. 15, no. 6, p. 32-45. (*Chem. Abstr.*, v. 81, 124213p.)
- Razin, L.V., Gomonova, A.I., Bykov, V.I. and Meshchankina, V.I.
1971: A new natural gold, copper, and palladium intermetallic compound from the ores of the Talnakh deposit; *Zap. Vses. Mineral. Obshest., USSR*, v. 100, no. 1, p. 66-76.
- Razin, L.V. and Rozhkov, I.S.
1963: The geochemistry of gold in the zone of weathering and in the biosphere in the permafrost zone of the Aldan Shield; *Acad. Sci. USSR, Siberian Br., Yakutia Sec., Trans. Geol. Ser.* no. 16, p. 5-22.
1966: Geochemistry of gold in the crust of weathering and the biosphere of gold-ore deposits of the Kuranakh type; *Nauka, Moscow*, 254 p. (*Rev. in Econ., Geol.*, v. 62, p. 437-438.)
- Razin, L.V. and Yurkina, K.V.
1971: The gold minerals in the impregnation ore of the Noril'sk deposit; *Geol. Rud. Mestorozhd.*, v. 13, no. 1, p. 93-97.
- Read, H.H.
1957: The granite controversy; Thomas Murby & Co., London, 430 p.
- Redmayne, R.A.S., ed.
1922: The mineral industry of the British Empire and foreign countries, Gold, Her Majesty's Stationery Office, London, 366 p.
- Reed, B.L. and Miller, R.L.
1971: Orientation geochemical soil survey at the Nixon Fork mines, Medfra quadrangle, Alaska; *U.S. Geol. Surv., Bull.* 1312-K, 21 p.
- Reed, G.W.
1963: Heavy elements in the Pantar meteorite; *J. Geophys. Res.*, v. 68, p. 3531-3535.

- Reed, H.W.
1911: Secondary enrichment of gold deposits; *Min. Sci. Press*, v. 102, no. 24, p. 825.
- Reeves, T.J.
1971: Gold in Ireland; *Irel., Geol. Surv., Bull.* 1, p. 73–85.
- Rehman, F.U.
1972: The determination of gold by radiochemical and non-destructive neutron activation analyses in some sulphide ore samples from Pakistan; *Punjab Univ., Geol. Bull.*, no. 9, p. 37–42.
- Reid, J.A.
1904: The structure and genesis of the Comstock Lode; *Univ. Calif., Dep. Geol., Bull.*, v. 4, no. 10, p. 177–199.
1941: Albite and gold; *Econ. Geol.*, v. 36, p. 217–219.
1945: The Hardrock "Porphyry" of Little Long Lac; *Econ. Geol.*, v. 40, p. 509–516.
- Reider, R. and Wänke, H.
1969: Study of trace element abundance in meteorites by neutron activation; in *Meteorite research*, P.M. Millman, ed., Springer-Verlag New York, Inc., New York, p. 75–86.
- Reimer, T.O.
1975: Age of the Witwatersrand system and other gold-uranium placers. Implications on the origin of the mineralization; *Neues Jahrb. Mineral. Monatsh.*, no. 2, p. 79–98. (Chem. Abstr., v. 83, 13689v.)
- Reimnitz, E., Von Huene, R. and Wright, F.F.
1970: Detrital gold and sediments in Nuka Bay, Alaska; *U.S. Geol. Surv., Prof. Pap.* 700-C, p. C35–C42.
- Reinecke, L.
1927: The location of the payable ore-bodies in the gold-bearing reefs of the Witwatersrand; *Geol. Soc. S. Afr., Trans.*, v. 30, p. 89–119.
1930: Origin of the Witwatersrand system; *Geol. Soc. S. Afr., Trans.*, v. 33, p. 111–133.
- Reinecke, L. and Stein, W.G.A.
1930: Ore bodies of the Pilgrims Rest goldfield; *Geol. Soc. S. Afr., Trans.*, v. 32, p. 65–88.
- Relly, B.H.
1960: The geology of Buchans Mine, Newfoundland; unpubl. Ph.D. thesis, McGill Univ., Montreal.
- Reuning, E.
1925: Die Natasmine in Südwest-Afrika, eine pegmatitisch-pneumatolytisch-hydrothermale Übergangs-lagerstätte mit Scheelit, Molybdänglanz, Kupfererzen und Gold; *Neues Jahr. Mineral., Geol. Palaeontol. Beil. Bd.* 52, p. 192–264.
- Reynolds, D.G.
1965: Geology and mineralization of the Salsigne gold mine, France; *Econ. Geol.*, v. 60, p. 772–791.
- Reynolds, D.L.
1946: Geochemical changes leading to granitization; *Geol. Soc. London, Q.J.*, v. 102, pt. 3, p. 389–446.
1947: The granite controversy; *Geol. Mag.*, v. 84, no. 4 p. 209–223.
- Rice, H.M.A.
1960: Geology and mineral deposits of the Princeton map-area, British Columbia; *Geol. Surv. Can., Mem.* 243, 136 p.
- Rice, H.R.
1949: Renabie mines; *Can. Min. J.*, v. 70, p. 61–67.
- Rice, R.
1964: The mode of origin of banket orebodies, discussion; *Inst. Min. Metall., Trans.*, v. 74, no. 702, p. 503–504.
- Rice, W.L.
1970: Investigation of a low-grade gold deposit in the Orogrande district Idaho; *U.S. Bur. Mines, Rep. Invest.* 7425, 14 p.
- Rich, R.L. and Taube, H.
1954: The induced exchange of Cl^- and AuCl_4^- ; evidence for Au(II) ; *J. Phys. Chem.*, v. 58, p. 6–11.
- Richards, F.
1948: Cariboo gold quartz mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 162–168.
- Richards, G.G., Christie, J.S. and Wolfhard, M.R.
1976: Specogna: a Carlin type gold deposit, Queen Charlotte Islands, British Columbia; *Can. Inst. Min. Metall. Bull.*, v. 69, no. 773, p. 64 (abstr.).
- Richardson, W.G.
1974: A survey of Canadian mining history; *Can. Inst. Min. Metall., Spec. Vol.* 14, 115 p.
- Richter, D.H.
1970: Geology and lode-gold deposits of the Nuka Bay area, Kenai Peninsula, Alaska; *U.S. Geol. Surv., Prof. Pap.* 625-B, 16 p.
- Richter, D.H. and Matson, N.A.
1968: Distribution of gold and some base metals in the Slana area, Eastern Alaska Range, Alaska; *U.S. Geol. Surv., Circ.* 593, 20 p.
- Rickaby, H.C.
1932: Bannockburn gold area; *Can. Inst. Min. Metall., Bull.*, no. 245, p. 501–511.
- Rickard, M.J.
1966: Reconnaissance geology of Vanua Levu; *Fiji, Geol. Surv. Dep., Mem.* no. 2, p. 1–81.
- Rickard, T.A.
1896: The Enterprise mine, Rico, Colorado; *Am. Inst. Min. Metall. Eng., Trans.*, v. 26, p. 906–980.
1899: The alluvial deposits of western Australia; *Am. Inst. Min. Metall. Eng., Trans.*, v. 28, p. 490–537.
1902: The formation of bonanzas in the upper portions of gold-veins; *Am. Inst., Min. Eng., Trans.*, v. 31, p. 198–220.
1912: The domes of Nova Scotia; *Inst. Min. Metall., Trans. (London)*, v. 21, p. 506–566.
1925: The geologic distribution of gold; *Eng. Min. J.*, v. 119, p. 486–487.
1932: Man and metals, vols. I and II; McGraw-Hill Book Co., Inc., New York, 1068 p.
1934: The primitive use of gold; *Inst. Min. Metall., Bull.* no. 360, p. 1–28, no. 361, p. 1–5 and no. 364, p. 33–37.
1942: The gold digging of British Columbia; *Can. Min. J.*, v. 63, no. 10, p. 640–646.
1944: The romance of mining; Macmillan Company of Canada Ltd., Toronto, 450 p.
- Ridge, J.D., ed.
1968: Ore deposits of the United States, 1933–1967; *Graton-Sales Vol.*; Publ. Am. Inst. Min. Metall. Pet. Eng. Inc., New York, vols. 1 and 2.
1972: Annotated bibliographies of mineral deposits in the western hemisphere; *Geol. Soc. Am., Mem.* 131, 681 p.
- Ridland, G.C.
1941: Mineralogy of the Negus and Con mines, Yellowknife, Northwest Territories, Canada; *Econ. Geol.*, v. 36, p. 45–70.
- Ridler, R.H.
1970: Relationship of mineralization to volcanic stratigraphy in the Kirkland-Larder Lakes area, Ontario; *Geol. Assoc. Can., Proc.*, v. 21, p. 33–42.
1976: Stratigraphic keys to the gold metallogeny of the Abitibi Belt; *Can. Min. J.*, v. 97, no. 6, p. 81–87.
- Ries, H.
1930: Economic geology, 6th ed.; John Wiley & Sons, Inc., New York, 860 p.
- Ringsleben, W.C.
1935: Hollinger enterprise, geology; *Can. Min. J.*, v. 56, p. 364–372.
- Ringwood, A.E.
1955: The principles governing trace element distribution during magmatic crystallization; *Geochim. Cosmochim. Acta*, v. 7, p. 189–202, 242–254.
1956: Surface tensions of molten heavy metal iodides and their relation to sulphide paragenesis; *Aust. Inst. Min. Metall., Proc.*, no. 180, p. 55–74.

- Ritter, C.J.
1971: Trace elements of gold-bearing quartz veins of the Lamaque mine, Bourlamaque, P.Q., Canada; Univ. Microfilms, Ann. Arbor, Mich. (Chem. Abstr., v. 76, 130120u.)
- Roberts, B.
1971: The Carolina gold rush; McNally and Loftin, Charlotte, N.C., 80 p.
- Roberts, R.J. and Morris, J.H.
1974: The structural geology of the Upper Beaver Mine, Kirkland Lake, Ontario: a volcanogenic copper-gold deposit in Archean mafic volcanic rocks; Geol. Assoc. Can.-Miner. Assoc. Can. Annu. Meet., Abstr., p. 75.
- Roberts, R.J., Radtke, A.S., Coats, R.R., Silberman, M.L. and McKee, E.H.
1971: Gold-bearing deposits in north-central Nevada and southwestern Idaho; Econ. Geol., v. 66, p. 14-33.
- Robertson, D.S.
1974: Basal Proterozoic units as fossil time markers and their use in uranium prospecting; in Formation of uranium ore deposits; Int. At. Energy Agency—SM—183/35, p. 495-512.
- Robertson, D.S. and Steenland, N.C.
1960: On the Blind River uranium ores and their origin; Econ. Geol., v. 55, p. 659-694.
- Robertson, F.
1955: Tracing geological structures by geochemical means; Econ. Geol., v. 50, p. 100 (abstr.)
- Robertson, I.D.M.
1972: Mercury in Rhodesia; Rhodesia Geol. Surv. Miner. Resour. Ser., no. 17, 17 p.
- Robinson, A.H.A.
1932: Gold in Canada; Can. Dep. Mines, Mines Br. Publ. No. 730, 92 p.
1933: Gold in Canada; Can. Dep. Mines, Mines Br. Publ. No. 734, 92 p.
1935: Gold in Canada; Can. Dep. Mines, Mines Br. Publ. No. 769, 127 p.
- Robinson, B.W.
1974: The origin of mineralization at the Tui mine, Te Aroha, New Zealand, in the light of stable isotope studies; Econ. Geol., v. 69, p. 910-925.
- Robinson, S.C.
1955: Mineralogy of uranium deposits, Goldfields Saskatchewan; Geol. Surv. Can., Bull. 31, 128 p.
- Roedder, E., ed.
1968: Fluid inclusion research, Proc. Commission on ore-forming fluids in inclusions (COFFI), vols. 1-7; privately published, Washington, D.C. and University of Michigan Press, Ann Arbor, Mich.
1974: forming fluids in inclusions (COFFI), vols. 1-7; privately published, Washington, D.C. and University of Michigan Press, Ann Arbor, Mich.
- Rogers, A.F.
1912: Lorandite from the Rambler Mine, Wyoming; Am. J. Sci., Ser. 4, v. 33, p. 105-106.
- Rolfe, C. and Hume-Rothery, W.
1967: The constitution of alloys of gold and mercury; J. Less-Common Metals, v. 13, p. 1-10.
- Romanowitz, C.M., Bennett, H.J. and Dare, W.L.
1970: Gold placer mining: Placer evaluation and dredge selection; U.S. Bur. Mines, Inform. Circ. 8462, 56 p.
- Roscoe, S.M.
1959: Monzonite as an ore mineral in Elliot Lake uranium ores; Can. Min. J., v. 80, p. 65-66.
1969: Huronian rocks and uraniferous conglomerates in the Canadian Shield; Geol. Surv. Can., Pap. 68-40, 205 p.
- Roscoe, S.M. and Steacy, H.R.
1958: On the geology and radioactive deposits of Blind River Region; Proc., 2nd U.N. Conf. on Peaceful Uses of Atomic Energy, v. 2, Pap. 222, p. 475-483.
- Rose, T.K. and Newman, W.A.C.
1937: The metallurgy of gold, 7th ed.; Charles Griffin and Co., London, 561 p.
- Rosenbaum, J.B., May, J.T. and Riley, J.M.
1969: Gold in seawater—fact or fancy; Mines Mag., v. 59, no. 9, p. 14-17.
- Rosenthal, E.
1970: Gold! Gold! Gold! The Macmillan Company, London, 372 p.
- Roslyakov, N.A.
1969: Distribution of gold and mercury in the Darasun ore field; Zap. Zabaikal. Filiala Geogr. Obshchest. SSSR, v. 36, p. 56-62. (Chem. Abstr., v. 77, 116718j.)
1976: Gold in the zone of hypergenesis of gold ore deposits of East Trans-Baikal, and gold behaviour in the hypergenic processes of an oxidizing series; in Gold and rare elements in geochemical processes, Yu.G. Scherbakov, ed., "Nauka" Publ. House, Siberian Br., Novosibirsk, p. 113-140.
- Roslyakov, N.A., Nepeina, L.A., Tsimbalist, V.G., Ushakov, G.D. and Reshchevitsky, B.I.
1972: Form of deposition and migration of gold in the weathering crust of gold-sulphide deposits; Tr. Inst. Geol. Geofiz., Akad. Nauk SSSR, Sib. Otd., v. 149, p. 125-138.
- Roslyakov, N.A., Peshevitsky, B.I., Nepeyna, L.A. and Tsimbalist, V.G.
1971a: Geochemistry of gold in the processes of weathering crust formation; Int. Geochem. Congr., Moscow, Abstracts of Reports II, p. 719-720.
- Roslyakova, N.V. and Roslyakov, N.A.
1975: Endogenic aureoles of gold deposits; Izd. "Nauka" Sib. Otd., no. 182, 132 p.
- Roslyakova, N.V., Roslyakov, N.A., and Zvyagin, V.G.
1970: The behaviour of gold in the primary haloes of some vein gold deposits; Izv. Tomsk. Politekh. Inst., v. 239, p. 208-215.
- Roslyakov, N.A., Zvyagin, V.G., Roslyakova, N.V., Epov, I.N., Kharitonov, I.I. and Alabina, A.A.
1971b: Data on the feed source of gold-bearing placer deposits in Darasun rivers; Zap. Zabaikal. Filiala Geogr. Obshchest. SSSR, no. 52, p. 116-125. (Chem. Abstr., v. 78, 32554k.)
- Ross, C.P.
1933: The lode deposits in the Boise Basin, Idaho; Econ. Geol., v. 28, p. 329-343.
- Routhier, P.
1963: Les gisements métallifères; t. I and II, Masson et Cie., Paris.
- Rowe, J.J.
1969: Fractionation of gold in a differentiated tholeiitic dolerite; Chem. Geol., v. 4, p. 421-427.
- Rowe, J.J. and Simon, F.O.
1968: The determination of gold in geologic materials by neutron-activation analysis using fire assay for the radiochemical separations; U.S. Geol. Surv., Circ. 599, 4 p.
- Rowe, R.C.
1948: Gold—its past and its future; Can. Min. J., v. 69, no. 4, p. 63-70.
- Roy, B.C.
1963: Investigations for gold in India by the Geological Survey of India; Geol. Soc. India, Mem. 1, p. 31-38.
- Roy, B.C., coördinator
1963: Mineral distribution map of Asia and the Far East; United Nations, New York.

- Rozhkov, I.S.
 1940: Auriferous sand deposit on Leba River in the Urals; *Zolotaya Prom.*, v. 12, no. 9, p. 24–25. (Chem. Abstr., v. 38, 3223,8.)
 1966: The Kolar gold deposits; *Geol. Rud. Mestorozhd.*, v. 8, no. 6, p. 3–15.
 1967: Proterozoic auriferous conglomerates of the Tarkwa district, Ghana; *Geol. Geofiz.*, no. 1, p. 60–74.
 1968a: The genetic types of gold deposits and their position within geotectonical structures; *Geol. Geofiz.*, no. 7, p. 3–16.
 1968b: The characteristic features of gold deposits of mobile belts and platforms; 23rd Int. Geol. Congr., Prague, Endogenous Ore Deposits, sec. 7, v. 7, p. 313–322.
 1970: The conditions of origin of auriferous deposits of gold telluride type; in *Problems of postmagmatic ore deposition*, Z. Pouba and M. Stempok eds.; Int. Union Geol. Sci. Ser. A, no. 2, p. 126–129.
 1971a: Gold content of Krivoy Rog iron ore; *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 196, p. 92–95 (*Am. Geol. Inst. Transl.*)
 1971b: Near surface gold deposits; *Geol. Rud. Mestorozhd.*, v. 13, no. 3, p. 3–14.
 1971c: Gold deposits of moderate depth; *Geol. Rud. Mestorozhd.*, v. 13, no. 5, p. 23–37 (in Russian).
 1971d: Structural conditions of the formation of near-surface gold deposits; *Soc. Min. Geol. Japan, Spec. Issue* 3, p. 126–131.
- Rozhkov, I.S. *et al.*
 1970: Nonuniform distribution of gold in rocks and minerals as determined by neutron activation analysis; *Akad. Nauk SSSR, Dokl.*, v. 191, no. 4, p. 927–930. (transl. *Am. Geol. Inst.*), *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 191, no. 1–6, p. 200–203.)
 1971: The presence of gold in the Krivoy Rog iron ores; *Acad. Nauk. USSR, Dokl.*, v. 196, no. 4, p. 923–926.
- Rozhkov, I.S., Kaminsky, F.V. and Franzesson, E.V.
 1973: Gold in kimberlites and ultrabasic inclusions; *Geokhim.*, no. 12, p. 1898–1903. *Also Geochem. Int.* v. 10, no. 6, p. 1385–1389.
- Rozhkov, I.S. and Pisemsky, G.V.
 1966: The problem of gold in ancient conglomerates; *Geol. Rud. Mestorozhd.*, no. 5, p. 116–118.
- Rozhkov, I.S. and Zhadnova, T.P.
 1972: Gold content of the Russian Platform; *Akad. Nauk SSSR, Dokl.*, v. 203, no. 2, p. 434–437. (Chem. Abstr., v. 76, 143396p.)
- Rozova, E.V. and Gavrilov, A.M.
 1970: Use of pyrite electrical properties in studying zoning in the Kokpatas gold deposit central Kyzyl-Kum; *Tr. Tsent. Nauch. Issled. Gornorazved. Inst.*, no. 93, p. 122–129. (Chem. Abstr., v. 75, 23830h.)
- Ruiz, C.F. and Ericksen, G.E.
 1962: Metallogenic provinces of Chile, S.A.; *Econ. Geol.*, v. 57, p. 91–106.
- Rundall, W.H.
 1927– Note on the occurrence of galena in clay, South Shan States, Burma; *Inst. Min. Metall., Trans.*, v. 37, p. 27–49.
- Rusakova, L.D.
 1974 Supergene zoning in gold-pyrite deposits; *Rudonos. Kory Vyvetrivaniya*, V.I. Smirnov, ed., “Nauka”, Moscow, U.S.S.R., p. 197–202. (Chem. Abstr., v. 82, 61994s.)
- Rusakova, L.D. and Povarennykh, A.S.
 1973: Secondary enrichment of gold deposits; *Geol. Zh.*, v. 33, no. 3, p. 20–31.
- Rush, P.M.
 1976: Prospecting methods for gold-quartz vein deposits; unpubl. M.Sc. thesis, Imperial College, Sci. Technol., Univ. London, London, 139 p. and append.
- Rusinov, V.L.
 1968: Propylites and mineralization; *Geol. Rud. Mestorozhd.*, v. 10, no. 6, p. 75–86. (Review in *Econ. Geol.*, v. 65, p. 230.)
- Russell, A.
 1929: On the occurrence of native gold at Hope’s Nose, Torquay, Devonshire; *Mining Mag.*, v. 22, p. 159–162.
- Ruzicka, V. and Steacy, H.R.
 1976: Some sedimentary features of conglomeratic uranium ore from Elliot Lake, Ontario; *Geol. Surv. Can., Pap.* 76-1A, p. 343–346.
- Ryabinin, A.I., Romanov, A.S., Khatamov, Sh. and Khamidova, R.
 1974: On the question of gold in the waters of the World Ocean; *Geokhim.*, no. 1, p. 158–162.
- Ryan, C.W.
 1960: A guide to the known minerals of Turkey; *Min. Res. Explor. Inst. Turkey*, Ankara, 196 p.
- Ryan, G.R., ed.
 1976: Mining centres of northern Australia; 25th Int. Geol. Congr., Sydney, Australia, Excursion Guide no. 49AC, 52 p.
- Rye, D.M., Doe, B.R. and Delevaux, M.H.
 1974a: Homestake gold mine, South Dakota: II Lead isotopes, mineralization ages, and source of lead in ores of the Northern Black Hills; *Econ. Geol.*, v. 69, p. 814–822.
- Rye, R.O., Doe, B.R. and Wells, J.D.
 1974b: Stable isotope and lead isotope study of the Cortez, Nevada, gold deposit and surrounding area; *U.S. Geol. Surv., J. Res.*, v. 2, no. 1, p. 13–23.
- Rye, D.M. and Rye, R.O.
 1972: The origin of the Homestake gold deposit, South Dakota in the light of stable isotope studies; *Econ. Geol.*, v. 67, p. 1010 (abstr.).
 1974: Homestake gold mine, South Dakota: I. Stable isotope studies; *Econ. Geol.*, v. 69, p. 293–317.
- Rytuba, J.J. and Dickson, F.W.
 1977: Reaction of pyrite + pyrrhotite + quartz + gold with NaCl-H₂O solutions, 300–500°C, 500–1,500 bars, and genetic implications; in *Problems of ore deposition*, v. 2, 4th IAGOD Symp., Varna, Bulgaria, B. Bogdanov, ed., Bulgarian Acad. Sci., Sofia, p. 320–326.
- Ryzhov, B.V.
 1971: Structure of placer deposits of cassiterite, wolframite, and gold in small valleys of the Shilka-Argun interfluvium; *Izv. Geol. Razved.*, v. 14, no. 8, p. 68–73. (Chem. Abstr., v. 75, 120072v.)
 1972: Structure and formation conditions of placer deposits in the northern Sosva gold-bearing region; *Sov. Geol.*, v. 15, no. 5, p. 94–103. (Chem. Abstr., v. 77, 77803m.)
- Saager, R.
 1968: Newly observed ore minerals from the Basal Reef in the Orange Free State Goldfield in South Africa; *Econ. Geol.*, v. 63, p. 116–123.
 1969: The relationship of silver and gold in the Basal Reef of the Witwatersrand, South Africa; *Miner. Deposita (Berl.)*, v. 4, p. 93–113.
 1970: Structures in pyrite from the Basal Reef in the Orange Free State Gold-Field; *Geol. Soc. S. Afr., Trans.*, v. 73, pt. 1, p. 29–46.
 1973: Metallogenese präkambrischer Goldvorkommen in den vulkano-sedimentären Gesteinskomplexen (greenstone belts) der Swaziland-Sequenz in Südafrika; *Geol. Rundsch.*, v. 62, p. 888–901.
 1975: New geochemical observations on the determination of the primary source of gold in the Witwatersrand deposit, South Africa; *Fortsch. Mineral.*, v. 53, no. 1, p. 70. (Chem. Abstr., v. 84, 33731b.)
- Saager, R. and Bianconi, F.
 1971: The Mount Nansen gold-silver deposit, Yukon Territory, Canada; *Miner. Deposita (Berl.)*, v. 6, p. 209–224.
- Saager, R. and Mihálik, P.
 1967: Two varieties of pyrite from the Basal Reef of the Witwatersrand System; *Econ. Geol.*, v. 62, p. 719–731.

- Sadovskii, I.A., Narseev, V.A., Bugaetz, A.N., Lopatnikov, V.V., Pyshko, E.P. and Uvarov, V.V.
1971: The behaviour of tantalum and gold in magmatic process in formation of conjugate rare-metal and gold-bearing belts; *Int. Geochem. Congr., Moscow, Abstract of Reports I*, p. 167-168.
- Safiannikoff, A.
1972: Le gisement primaire aurifère de Twangitza; *Ann. Soc. Geol. Belg.*, v. 95, p. 311-321.
- Safronov, N.I., Polikarpochkin, V.V. and Trushkov, Yu. N.
1960a: Combined method of gold exploration; *Sov. Geol.*, no. 4, p. 92-110. (*Chem. Abstr.*, v. 55, 1307b.)
1960b: Spectrographic aurometric surveying as a method of prospecting for gold ore deposits not accompanied by mechanical haloes (placers); in *Novoye Metodike Tekhnike Geologorazvedochnykh Rabot. Sbornik 1*, Leningrad, Gostoptekhizdat, p. 100-108, 1958. (*Engl. transl. in Int. Geol. Rev.*, v. 2, no. 3, p. 254-258.)
- Saqi, C.L.
1928: The ancient mining works of Cassandra, Greece; *Econ. Geol.* v. 23, p. 671-680.
- Sahli, E.W.
1961: Antimony in the Murchison Range of north-eastern Transvaal; *Trans. 7th. Commonw. Min. Metall. Congr., Johannesburg, South Africa*, v. 1, p. 181-199.
- Sainsbury, C.L.
1974: Geologic map of the Bendeleben Quadrangle, Seward Peninsula, Alaska; Report prepared in cooperation with U.S. Bur. Mines, U.S. Geol. Surv., and the Mapmakers, Anchorage, Alaska by Air Samplex, Golden, Colorado, 31 p.
- Sakai, H. and Matsubaya, O.
1974: Isotopic geochemistry of the thermal waters of Japan and its bearing on the Kurokô ore solutions; *Econ. Geol.*, v. 69, p. 974-991.
- Sakharova, M.S.
1969a: Study of the composition of gold by X-ray spectral microanalysis; *Akad. Nauk SSSR, Dokl.*, v. 186, no. 2, p. 430-433.
1969b: Mineralogy of Darasun gold field in eastern Transbaikalia; *Int. Geol. Rev.*, v. 11, no. 1, p. 45-59.
1970: On the distribution with depth of sulfosalts and gold in a hydrothermal ore deposit; in *Problems of hydrothermal ore deposition*, Z. Pouba and M. Stemprok, eds., *Int. Union Geol. Sci., Ser. A*, no. 2, p. 129-134.
1972: Hydrothermal ore deposits. Typomorphism of associations of bismuth and tellurium minerals in gold ore deposits of eastern Transbaikalia; *Tip. Miner. Ego Prakt. Znachenie*, F.V. Chukhrov, ed., "Nedra" Moscow, p. 233-240. (*Chem. Abstr.*, v. 80, 123182v.)
- Sakharova, M.S., Appollonov, V.N., Kalitkina, N.A. and Krivitskaya, N.N.
1972: Early gold and its possible redistribution in sulphides; *Tr. Sev. Vost. Kompleks., Inst. Dal'nevost. Tsent., Akad. Nauk SSSR*, no. 44, p. 64-69.
- Sakharova, M.S., Batrakova, Yu.A. and Ryakhovskaya, S.K.
1975: Investigation of interaction between sulfides and gold-containing solutions; *Geokhim.*, no. 5, p. 740-746.
1976: Influence of the anionic composition of the solution upon the process of gold and silver coprecipitation on sulphides; *Geokhim.*, no. 6, p. 871-878.
- Sakharova, M.S. and Demidov, V.G.
1972: Gold to silver ratio in the Darasun deposit; *Tr. Mineral. Muz., Akad. Nauk SSSR*, no. 21, p. 127-132. (*Chem. Abstr.*, v. 77, 154986c.)
- Sakharova, M.S. and Krivitskaya, N.N.
1970: Mineralogical and geochemical characteristics of the lead-cinnabar-bismuth sulphosalts in the gold deposits of the eastern Transbaikalian region; *Geol. Rud. Mestorozhd.*, no. 4, p. 56-70.
1972: Mineralogical-geochemical characteristics of lead-antimony-bismuth sulfosalts in gold deposits in eastern Transbaikalia; *Int. Geol. Rev.*, v. 14, no. 8, p. 811-822.
- Sakharova, M.S. and Lobacheva, I.K.
1967: Electrochemical investigation of processes of gold deposition on sulphides; *Geol. Rud. Mestorozhd.*, v. 9, no. 4, p. 46-55. (*Engl. Rev. in Econ. Geol.*, v. 64, p. 591-592.)
- Sakharova, M.S. and Nekrasov, E.M.
1964: The mineralogical and geochemical characteristics and conditions of localization of new types of gold-sulfides ores in the Darasun deposit; *Geol. Rud. Mestorozhd.*, v. 6, p. 39-55. *Also Econ. Geol.*, v. 60, p. 642-643.
- Saks, S.E.
1974: Hydrodynamic differentiation in flow and its effect on the variability of the metal content in placers; *Izv. Vyssh. Ucheb. Zaved., Geol. Razved.*, v. 17, no. 1, p. 73-81. (*Chem. Abstr.*, v. 81, 66371a.)
1975: Dynamics of marine placer formation; *Izv. Vyssh. Ucheb. Zaved., Geol. Razved.*, v. 18, p. 81-89. (*Chem. Abstr.*, v. 84, 124511w.)
- Sal'e, O.V.
1965a: Thallium in prospecting for gold deposits in the Aldan territory; *Izv. Vyssh. Ucheb. Zaved., Geol. Razved.*, v. 8, no. 12, p. 141-143. (*Chem. Abstr.*, v. 64, 7883g.)
1965b: Hydrochemical method in prospecting for gold in the Aldan area; *Zap. Leningrad. Gorn. Inst.*, v. 48, no. 2, p. 77-80. (*Chem. Abstr.*, v. 63, 12868g.)
- Salamon, W.
1976: Noble metals in black shales of the Fore Sudeten Monocline; *Rudy Metale Niezelaz.*, v. 21, no. 12, p. 472-477 (in Polish).
- Sales, R.H. and Meyer, C.
1948: Wall rock alteration at Butte, Montana; *Am. Inst. Min. Metall. Eng., Trans.*, v. 178, p. 9-35. *Also A.I.M.M.E. Tech. Publ.* no. 2400.
1950: Interpretation of wall-rock alteration at Butte, Montana; *Colo. Sch. Mines, Q.*, v. 45, p. 261-273.
- Salmon, J.H.M.
1963: A history of goldmining in New Zealand; R.E. Owen, Government Printer, Wellington, 309 p.
- Salop, L.I.
1964: Precambrian geochronology and some features of the early stage of the geological history of the earth; *Rep. 22nd Session, Int. Geol. Congr., India, Pt. X, Proc., Sec. 10, Geochemistry*, p. 131-139.
- Salotti, C.A., Heinrich, E.W. and Giardini, A.A.
1971: Abiotic carbon and the formation of graphite deposits; *Econ. Geol.*, v. 66, p. 929-932.
- Samsonov, G.V., ed.
1968: Handbook of the physicochemical properties of the elements; IFI/Plenum, New York.
- Samusikov, V.P., Sergeenko, A.I., Trushkov, Yu.N. and Tskhurbaev, F.I.
1969: Placer deposits. Eastern Yakutia gold placer deposits; *Str. Zemnoi Kory Yakutti Zakonomer. Razmescheniya Polez. Iskop.*, Yu. P. Ivensen, ed., *Izd. "Nauka"*, Moscow, U.S.S.R., p. 330-339. (*Chem. Abstr.*, v. 73, 27542x.)
- Samusikov, V.P. and Tsabul, L.N.
1972: Chemical and granulometric composition of placer gold in the Allakh-Yun'sk region; *Rossyi Zolata Ikh Svyazi Korennymi Mestorozhd. Yakutii*, Yu. N. Trushkov, ed., Yakutsk, Knizhnoe Izd., Yakutsk, U.S.S.R., p. 122-144. (*Chem. Abstr.* v. 78, 162174x.)
- Sandberger, F.
1882: Untersuchungen über Erzgänge; Wiesbaden Kreidel.
1885: Part 1 (1882) p. 1-158, Part 2 (1885) p. 159-431.
- Sandefur, B.T.
1942: The geology and paragenesis of the nickel ores of the Cuniptau mine, Goward, Nipissing District, Ontario; *Econ. Geol.* v. 37, p. 173-187.
- Sandell, E.B.
1948: Colorimetric determination of traces of gold; *Anal. Chem.*, v. 20, no. 3, p. 253-256.
1959: Colorimetric determination of traces of metals, 3rd ed., Interscience Publ. Inc., New York, 1032 p.

- Sanderson, L. ;
1964: Gold, its properties, occurrences and extraction; *Can. Min. J.*, v. 85, no. 4, p. 113–116 and no. 5, p. 81–85.
- Santos, G.G. and Walters, L.J.
1971: Gold provinces in the Philippines defined by activation analysis; *Nucl. Tech. Mineral. Explor. Exploit.*, Int. Atom. Energy Agency, Vienna, p. 143–156.
- Saprykin, A.A. and Yablokova, S.V.
1970: Internal structural characteristics of gold from the Amur ancient placer deposits; *Izv. Tomsk Politekh. Inst.*, v. 239, p. 390–397. (*Chem. Abstr.*, v. 75, 111631z.)
- Sarafian, P.G. and Furbish, W.J.
1965: Solubilities of natural and synthetic ferrimolybdate; *Am. Mineral.*, v. 50, p. 223–226.
- Sato, M.
1960: Oxidation of sulfide ore bodies; I. Geochemical environments in terms of Eh and pH; *Econ. Geol.*, v. 55, p. 928–961.
- Saukov, A.A.
1963: Geochemical methods of prospecting for useful mineral deposits; State Univ., Moscow, 247 p.
- Savage, E.M.
1934: Prospecting for gold and silver; McGraw-Hill Book Co., Inc., New York, 307 p.
- Savage, W.S.
1964: Mineral resources and mining properties in the Kirkland Lake–Larder Lake area; *Ont. Dep. Mines, Min. Res. Circ.* no. 3, 108 p.
- Sawkins, F.J. and Rye, D.M.
1971: On the relationships of certain Precambrian gold deposits to iron formation; *Econ. Geol.*, v. 66, p. 981 (abstr.).
1974: Relationship of Homestake-type gold deposits to iron-rich Precambrian sedimentary rocks; *Inst. Min. Metall., Trans., Sec. B.*, v. 83, p. B56–B59. Also discussion in *Trans., Sec. B.* v. 84, 1975, p. B37–B38.
- Sawyer, A.R.
1894: The gold-fields of Mashonaland; John Heywood, Manchester, 99 p.
- Saxby, J.D. and Stephens, J.F.
1973: Carbonaceous matter in sulphide ores from Mount Isa and McArthur River: an investigation using the electron-probe and the electron microscope; *Miner. Deposita (Berl.)*, v. 8, no. 2, p. 127–137.
- Sazomov, V.N.
1969: Gold-bearing granitic rocks and secondary quartzites in the Berezovsk ore field; *Geol. Polez. Iskop. Urala*, no. 2, p. 62–64. (*Chem. Abstr.*, v. 72, 92147r.)
- Schaudy, R., Kiesel, W. and Hecht, F.
1967: Activation and analytical determination of elements in meteorites; *Chem. Geol.*, v. 2, no. 4, p. 279–287.
1968: Activation analytical determination of elements in meteorites, 2; *Chem. Geol.*, v. 3, no. 4, p. 307–312.
- Scheiner, B.J., Lindstrom, R.E. and Henrie, T.A.
1971: Oxidation process for improving gold recovery from carbon-bearing gold ores; U.S. Bur. Mines, Rep. Invest. 7573, 14 p.
- Schidlowski, M.
1965: Probable life forms from the Precambrian of the Witwatersrand-System (South Africa); *Nature*, v. 205, p. 895–896.
1966: Mineralbestand und Gefügebilder in Faseraggregaten von kohligter Substanz (Thucholith) aus den Witwatersrand-Konglomeraten; *Contrib. Mineral. Petrol.*, v. 12, p. 365–380.
1968: The gold fraction of the Witwatersrand conglomerates from the Orange Free State goldfield (South Africa); *Miner. Deposita (Berl.)*, v. 3, p. 344–363.
- Schiller, P. and Cook, G.B.
1971: Determination of trace amounts of gold in natural waters by nondestructive activation analysis using pre-concentration before irradiation; in *Nuclear techniques for mineral exploration and exploitation*; Int. Atom. Energy Agency, Vienna, p. 137–142.
- Schiller, P., Cook, G.B. and Beswick, C.K.
1971a: A contribution to geobotanical and geochemical prospecting for gold by activation analysis; in *Nuclear techniques for mineral exploration and exploitation*, Proc. Panel Nucl. Tech. Miner. Resour. (Cracow, 1969), Int. Atom. Energy Agency, Vienna, p. 129–135.
1971b: Determination of gold by nondestructive activation analysis for geochemical and geobotanical prospecting; *Mikrochim. Acta*, no. 3, p. 420–428.
- Schiller, P., Cook, G.B., Kitzinger-Skálová, A. and Wölfl, E.
1973: The influence of the season variation for gold determination in plants by neutron activation analysis; *Radiochem. Radioanal. Lett.*, v. 13, nos. 5–6 p. 283–286.
- Schindewolf, U. and Wahlgren, M.
1960: The rhodium silver, and indium content of some chondritic meteorites; *Geochim. Cosmochim. Acta*, v. 18, p. 36–41.
- Schmeisser, K.
1898: The gold-fields of Australasia; MacMillan and Co., Ltd., London, 254 p.
- Schmid, K.
1973: Gold content of the streams and sediments of the Miocene Molasse of the northwestern Napf area (Canton Lucerne, Switzerland); *Schweiz. Mineral. Petrogr. Mitt.*, v. 53, no. 1, p. 125–156. (*Chem. Abstr.*, v. 79, 7948e.)
- Schmidt, A.
1919: Goldhaltiges Grünbleierz von Neu-Bulach im Schwarzwald; *Z. Prakt. Geol.*, v. 27, p. 157–159.
- Schmidt, J.W. and Conn, K.
1971: Abatement of water pollution in the base metal mining industry; *Can. Min. J.*, v. 92, no. 3, p. 57–63.
- Schmitt, H.
1950: Origin of the “Epithermal” mineral deposits; *Econ. Geol.*, v. 45, p. 191–200.
- Schneiderhöhn, H.
1924: Die oxydations-und Zementationszone der sulfidischen Erzlagertstätten; *Fortsch. Mineral. Kristallogr. Petrog.*, v. 9, p. 469–562.
1929: The mineragraphy and spectrography of the sulfide platinum ores of the Bushveld complex, chap. XVII, p. 206–246, in Wagner, P.A., The platinum deposits and mines of South Africa, Oliver and Boyd, Edinburgh and London.
1934: Die Ausnutzungsmöglichkeiten der deutschen Erzlagertstätten; *Metallwirtschaft*, 13, p. 151–157.
1958: Die Erzlagertstätten der Erde; Gustav Fisher Verlag, Stuttgart, vols. 1, 2 and 3.
- Schneiderhöhn, H. and Moritz, H.
1931: Spektrographische Untersuchungen über die Verteilung der Platinmetalle in den Mineralien der südafrikanischen Platinlagertstätten; *Festschr. Plantinschmelze G. Siebert, Hanau*, p. 257–287.
- Scholtz, D.L.
1936: The magmatic nickeliferous ore deposits of East Griqualand and Pondoland; *Univ. Pretoria, Pretoria, Ser. II, Nat. Sci.*, no. 1, pt. 1, 210 p.
- Schonwandt, H.K.V.
1974: Gold from Flat; *Nor. Geol. Tidsskr.*, v. 54, no. 1, p. 63–68.
- Schutz, D.F. and Turekian, K.K.
1965: The investigation of the geographical and vertical distribution of several trace elements in sea water using neutron activation analysis; *Geochim. Cosmochim. Acta*, v. 29, no. 4, p. 259–313.

- Schwartz, G.M.
 1944: The host minerals of native gold; *Econ. Geol.*, v. 39, p. 371-411.
 1947: Hydrothermal alteration in the "porphyry copper" deposits; *Econ. Geol.*, v. 42, p. 319-352.
 1950: Problems in the relation of ore deposits to hydrothermal alteration; *Colo. Sch. Mines, Q.*, v. 45, p. 197-208.
 1955: Hydrothermal alteration as a guide to ore; *Econ. Geol.*, 50th Anniv. Vol., pt. 1, p. 300-323.
 1959: Hydrothermal alteration; *Econ. Geol.*, v. 54, no. 2, p. 161-183.
- Schweigart, H.
 1965: Solid solution of gold in sulfides; *Econ. Geol.*, v. 60, p. 1540-1542.
- Schweitzer, G.K. and Bishop, W.N.
 1953: Low concentration chemistry, VI: Some properties of tracer gold in solution; *J. Am. Chem. Soc.*, v. 75, p. 6330-6332.
- Scott, H.C.
 1948: The decrepitation method applied to minerals with fluid inclusions; *Econ. Geol.*, v. 43, p. 637-654.
- Scott, J.S.
 1948: Quemont mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 773-776.
- Searls, F.
 1948: A contribution to the published information on the geology and ore deposits of Goldfield Nevada; *Univ. Nevada Bull.*, v. 42, no. 5, *Geol. Min. Ser.*, no. 48, 24 p.
 1952: Karst ore in Yunnan; *Econ. Geol.*, v. 47, p. 339-346.
- Sears, W.P.
 1971: Mercury in base metal and gold ores of the province of Quebec; in *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., Can. Inst. Min. Metall., Spec. Vol. 11, p. 384-390.
- Seeland, D.A.
 1973a: Geochemical reconnaissance for gold in the sedimentary rocks of the Great Lakes region, Minnesota to New York; *U.S. Geol. Surv., Bull.*, no. 1305, 16 p.
 1973b: Geochemical reconnaissance for gold in sedimentary and metamorphic rocks of the Great Lakes region. Tabulated data on 799 samples; *U.S. Natl. Tech. Inform. Serv., PB Rep.*, No. 222892/2, 60 p. (*Chem. Abstr.*, v. 80, 50676x.)
- Seiranyan, V.B., Sarkisyan, S. Sh. and Zav'yalov, E.N.
 1974: Zeolites from the ores of the Armaniss gold-complex metal deposit (northern Armenia); *Geol. Rud. Mestorozhd.*, v. 16, no. 6, p. 112-117. (*Chem. Abstr.*, v. 83, 63465q.)
- Segerstrom, K. and Ryberg, G.E.
 1974: Geology and placer-gold deposits of the Jicarilla Mountains, Lincoln County, New Mexico; *U.S. Geol. Surv., Bull.* 1308, 25 p.
- Selwyn, A.R.C.
 1972: Notes and observations on the gold fields of Quebec and Nova Scotia; *Halifax, N.S.*, 16 p.
- Semenenko, N.P. and Latysh, I.K.
 1973: On purity of the native gold of the Ukraine; *Akad. Nauk Ukr. RSR, Dopov.*, Ser. B., v. 35, p. 132-135.
- Sen, B.
 1959: A new spot test for gold; *Mikrochim. Acta*, p. 513-515.
- Sen Gupta, J.G.
 1973: A review of the methods for the determination of the platinum-group metals, silver, and gold by atomic-absorption spectroscopy; *Miner. Sci. Eng.*, v. 5, no. 3, p. 207-218.
- Senftle, F.E., Duffey, D. and Wiggins, P.F.
 1969: Mineral exploration of the ocean floor by *in situ* neutron absorption using a Californium-²⁵²Cf source; *J. Mar. Tech. Soc.*, v. 3, no. 5, p. 9-16.
- Sestini, G.
 1970: Sedimentological study of the Tarkwaian gold deposits; Ghana; *Univ. Leeds, Res. Inst. Afr., Geol. Dep. Earth Sci.*, v. 14, p. 23-26.
 1973: Sedimentology of a paleoplacer. The gold-bearing Tarkwaian of Ghana; in *Ores in sediments*, 8th Int. Sedimentol. Congr., 1971, G.C. Amstutz and A.J. Bernard, eds., p. 275-305.
- Sevensma, P.H.
 1941: Les gisements d'or de la région de Saint-Yrieix; *Georg & Cie S.A., Genève*, 122 p.
- Seward, T.M.
 1973: Thio complexes of gold and the transport of gold in hydrothermal ore solutions; *Geochim. Cosmochim. Acta*, v. 37, no. 3, p. 379-399.
- Shabanin, M.A.
 1972: Facial-paleogeographical and geomorphological conditions of placer formation in Fergana; *Nauch. Tr. Tashkent. Gos. Univ.*, no. 429, p. 304-306. (*Chem. Abstr.*, v. 80, 50504q.)
- Shabynin, L.L.
 1966: On the migration of gold in natural waters; *Izvest. Tomsk Polytekh. Inst., U.S.S.R.*, v. 151, p. 273-280.
 1970: Some experimental data on the migration of gold under supergene conditions; in *Geology of goldbearing deposits of Siberia*, V.N. Shakhov, and S.S. Il'enok, eds., *Acad. Sci. USSR, Siberian Br.*, p. 137-141.
- Shacklette, H.T.
 1965: Element content of bryophytes; *U.S. Geol. Surv., Bull.* 1198-D, 21 p.
- Shacklette, H.T., Lakin, H.W., Hubert, A.E. and Curtin, G.C.
 1970: Absorption of gold by plants; *U.S. Geol. Surv., Bull.* 1314-B, 23 p.
- Shadrin, A.I. and Lokotko, V.V.
 1972: Talatuis gold ore deposit; *Zap. Zabaikal. Filiala Geogr. Obschest. SSSR*, no. 69, p. 57-59. (*Chem. Abstr.*, v. 80, 98375a.)
- Shah, K.R., Filby, R.H. and Haller, W.A.
 1970: Determination of trace elements in petroleum by neutron activation analysis; *J. Radioanal. Chem.*, v. 6, p. 413-422.
- Shahine, Salah A. and Mahmoud, Rafaa, M.
 1976: A selective and sensitive spot-test for gold; *Mikrochim. Acta*, v.1, no. 1, p. 89-92.
- Shakhov, F.N.
 1961: Major trends in scientific investigations in the auriferous districts of Siberia; *Geol. Geofiz.*, no. 10, p. 89-101. (Engl. transl. in *Int. Geol. Rev.*, 1964, v. 6, no. 2, p. 202-211.)
- Shakhov, F.N., ed.
 1969: The geology of placer deposits in the southern part of western Siberia; "Nauka" Publ. House, Moscow, 192 p.
- Shakhov, F.N. and Il'enok, S.S., eds.
 1970: Geology of the Siberian gold deposits; "Nauka" Novosibirsk, U.S.S.R., 147 p.
- Sharma, N.N.
 1972: Concentration of gold in sea water; *Indian J. Mar. Sci.*, v. 1, no. 2, p. 151-152. (*Chem. Abstr.*, v. 79, 139578u.)
- Sharpe, J.W.N.
 1949: The economic auriferous bankets of the Upper Witwatersrand beds and their relationship to sedimentation features; *Geol. Soc. S. Afr., Trans.*, v. 52, p. 265-300.
 1955: Discussion: Occurrence and origin of gold and radioactive minerals in the Witwatersrand system, the Dominion Reef, the Ventersdorp Contact Reef and the Black Reef; *Geol. Soc. S. Afr., Trans.*, v. 58, p. 229-230.
- Sharwood, W.J.
 1911a: Notes on tellurium-bearing gold ores; *Econ. Geol.*, v. 6, p. 22-36.
 1911b: Notes on tellurium-bearing gold ores; *Min. Sci. Press*, v. 102, no. 12, p. 434-435.
 1911c: Analyses of some rocks and minerals from the Homestake mine, Lead, South Dakota; *Econ. Geol.*, v. 6, p. 729-789.

- Shaw, D.M.
1957: The geochemistry of gallium, indium, thallium—a review; *in* Physics and chemistry of the earth; v. 2, L.H. Ahrens *et al.*, eds., Pergamon Press, London, p. 164–211.
- Shcheka, S.A. and Moiseenko, V.G.
1970: Regular characteristics of gold distribution in basic and ultrabasic rocks; *Izv. Tomsk. Politek. Inst.*, v. 239, p. 37–38.
- Shcheka, S.A., Moiseenko, V.G. and Fominykh, V.G.
1971: Patterns of gold distribution in intrusive basic and ultrabasic rocks; *Akad. Nauk SSSR, Dokl.*, v. 201, no. 2, p. 461–464.
- Shcherbakov, I.B. and Latysh, I.K.
1972: Geochemistry of gold in rocks of the Ukrainian Shield central region; *Akad. Nauk Ukr. RSR, Dopov.*, Ser. B, v. 34, no. 2, p. 127–129.
- Shcherbakov, Yu.G.
1967: Gold ore provinces and formations; *Int. Geol. Rev.*, v. 9, p. 1537–1543.
1968: Distribution of gold in igneous rocks and specialization of gold-bearing intrusions; *Geochem. Int.*, v. 5, p. 1226–1228.
1969: Distribution and conditions of gold concentrations in ore provinces; “Nauka” Moscow, 268 p., 1967. (Engl. rev. *in* *Int. Geol. Rev.*, v. 11, no. 4, p. 511–512.)
1970: Source of gold in endogenous deposits; *in* Problems of hydrothermal ore deposition, Z. Pouba and M. Stempok, eds., *Int. Union. Geol. Sci., Ser. A*, no. 2, p. 134–136.
1973: Geochemical characteristics of gold ore deposition in regions of autonomous activation; *Metallog. Obl. Tektono-Magmat. Akt., Tezisy Dokl. Vses. Metallog. Soveshch.*, 7th, M.M. Odintsov, ed., *Akad. Nauk SSSR, Sib. Otd., Inst. Zemnoi Kory, Irkutsk, U.S.S.R.* p. 180–182. (Chem. Abstr., v. 82, 46363s.)
1974: Geochemistry of gold ore deposits in the Kuznetsk-Alatau and Altai mountains; F.N. Shakhov, ed., *Akad. Nauk SSSR, Sib. Otd., Tr. Inst. Geol. Geofiz. V'pusk*, 56, 278 p.
1976: Gold and rare elements in geochemical processes; “Nauka” Publ. House, Siberian Branch, Novosibirsk, 311 p.
- Shcherbakov, Yu.G., Pavlova, L.K., Mel'nikova, R.D. and Tsimbalist, V.G.
1972: Geochemistry of gold in the Sinyukha skarn-ore field (Gornyi Altai); *Tr. Inst. Geol. Geofiz., Akad. Nauk SSSR, Sib. Otd.*, no. 149, p. 7–20. (Chem. Abstr., v. 79, 106793g.)
- Shcherbakov, Yu.G. and Perezhugin, G.A.
1963: Geochemical relation between gold mineralization, intrusives, and the enclosing rocks in western Siberia; *Geochem. Int.*, no. 9, p. 882–890.
1964: Geochemistry of gold; *Geokhim.*, no. 6, p. 518–528. Also *Geochem. Int.* 1964, no. 3, p. 489–496.
- Shcherbakov, Yu.G., Roslyakova, N.V., Pavlova, L.K. and Mel'nikova, R.D.
1973: Geochemistry of gold in the formation of hydrothermal gold deposits; *Mezhdunar. Geokhim. Kongr.*, (Dokl.) 1st, 1971, pt. 2, A.P. Vinogradov, ed., p. 131–142. (Chem. Abstr., v. 81, 94060s.) (Engl. abstr. *in* *Int. Geochem. Congr.*, Moscow, Abstracts of Reports I p. 238–239.)
- Shcherbina, V.V.
1956a: Geochemical significance of quantitative Ag-Au ratios; *Geokhim.*, no. 3, p. 65–73. Also *Geochemistry*, no. 3, p. 301–311.
1956b: Complex ions and the transfer of elements in the supergene zone; *Geochemistry*, no. 5, p. 486–493.
1960: Features of the geochemistry and types of occurrences of scandium; *Geology of occurrences of rare elements*, No. 8, All Sov. Sci. Res. Inst. Miner. Raw Materials (VIMS), Moscow, 58 p.
1964: Do thiosulphates exist in hydrothermal solutions? *Geol. Rud. Mestorozhd.*, no. 3, p. 110–112.
1972: Principles of geochemistry; “Nedra”, Moscow, 295 p.
- Shcherbina, V.V. and Zar'yan, R.N.
1964: Paragenesis of silver and gold tellurides as solid phases in the system Ag-Au-Te; *Geochem. Int.*, no. 4, p. 653–657.
- Shchepot'ev, Yu.M. and Andrusenko, N.I.
1975: Genetic features of gold and mercury deposits near the surface on Kamchatka; *Sov. Geol.*, no. 6, p. 62–71. (Chem. Abstr., v. 83, 196317q.)
- Shenon, P.J. and Reed, J.C.
1934: Geology and ore deposits of the Elk City, Orogrande, Buffalo Hump, and Tenmile districts, Idaho County, Idaho; *U.S. Geol. Surv., Cir.* 9, p. 30.
- Sher, S.D.
1966: Quantitative estimate of gold content in geotectonic provinces; *Int. Geol. Rev.*, v. 8, p. 1329–1333.
1970: Wall-rock alteration in one of the gold deposits of Middle Asia; *in* Problems of hydrothermal ore deposition, Z. Pouba and M. Stempok, eds., *Int. Union Geol. Sci., Ser. A*, no. 2, p. 312–315.
1972: Metallogeny of gold (North America, Australia, and Oceania); “Nedra”, Moscow, U.S.S.R., 295 p. (Chem. Abstr., v. 78, 100788s.)
- Sher, S.D. and Demchenko, A.V.
1962: Applications of crystallography to prospecting for gold deposits; *Geol. Rud. Mestorozhd.*, no. 4, p. 84–96.
- Sher, S.D. and Timofeevskii, D.A.
1974: Vertical prolongation of gold ore deposits, localization and differentiation of geotectonic provinces; Abstracts of Papers, *Int. Assoc. Genesis Ore Deposits (IAGOD)*, 4th Symp., Varna, Bulgaria, p. 56–57.
- Shergin, B.V.
1973: Gold in sedimentary rocks of the Lena gold-bearing region; *Ezheg. Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR*, 1972, L.V. Tauson, ed., p. 261–265. (Chem. Abstr., v. 81, 155872g.)
- Shevkalenko, V.L.
1971: Practical importance of the silver-gold ratio in ores of the Shkol'noe deposit (northern Tadzhikistan); *Akad. Nauk Uzb. SSSR, Dokl.*, v. 28, no. 3, p. 40–42. (Chem. Abstr., v. 80, 17468h.)
- Shilin, N.L.
1968: Gold in the rocks of central Kamchatka; *Akad. Nauk SSSR, Izv., Ser. Geol.*, no. 11, p. 69–76.
- Shilo, N.A.
1956: Some peculiarities of placer formation in the zone of permafrost development; *Sov. Geol.*, v. 53, p. 102–117.
1960: The role of subpolar climate in the formation and disposition of placer deposits; *in* The principles of the disposition of useful minerals IV, Placer deposits; U.S.S.R. State Sci. Tech. Publ. House Lit. Mining, p. 20–29.
1963: Some features of the composition of alluvial placers in the Yana-Kolyma belt; *Tr. Sev. Vost. Kompleks. Nauch. Issled. Inst.* no. 3, p. 87–105. (Chem. Abstr., v. 61, 9304e.)
1968: Certain problems of auriferous lodes and placers; *Int. Geol. Rev.*, v. 10, no. 11, p. 1241–1246.
1970a: Placer-forming ore formation and their relation to placer deposits *Probl. Geol. Rossypoi, Soveshch.*, (Dokl.) 3rd, 1969, V.I. Smirnov, ed., *Sev. Vost. Kompleks. Inst.*; Magadan, U.S.S.R., p. 13–24. (Chem. Abstr., v. 75, 23807f.)
1970b: Placer-forming minerals and placer deposits; *Pacific Geol.*, no. 2, p. 29–33. (Chem. Abstr., v. 74, 14825n.)
1971: The problems of the geology of gold; *Earth-Sci. Rev.*, v. 7, p. 215–225.
1973: Metal content of placers of the northwestern Pacific area; *Aust., Bur. Min. Resour., Geol. Geophys. Bull.*, no. 141, p. 221–222.
1974: Gold and gold-silver mineralization in the Okhotsk-Chukotka volcanic belt and some problems of ore formation; *Zap. Leningrad. Gorn. Inst.*, v. 67, no. 2, p. 20–34. (Chem. Abstr., v. 83, 82774f.)

- Shilo, N.A., ed.
1972: The present problems of the geology of gold in the far eastern part of the U.S.S.R.; Trans., Far East Multi-purpose Inst., Magadan, no. 44, 202 p.
- Shilo, N.A., Belyi, V.F. and Sidorov, A.A.
1974: Volcanic belts of East Asia and their bearing on the problems of tectonics, magmatism and metallic ore generation; *Geol. Geofiz.*, no. 5, p. 70–88.
- Shilo, N.A. *et al.*
1975a: Pre-Mesozoic gold content of the Omolonsky massif; *Acad. Sci. USSR, Dokl.*, v. 225, p. 1165–1167.
1975b: Auriferous formation of Oloi zone; *Akad. Nauk SSSR, Geol. Geofiz.*, no. 10, p. 3–10.
1975c: A new model of the tectonic and metallogenic zonality of the northeastern U.S.S.R.; *Acad. Nauk USSR, Dokl.*, v. 223, no. 4, p. 961–964.
- Shilo, N.A., Gorodinskii, M.E. and Gulevich, V.V.
1975: Gold ore formations of the Oloi zone; *Geol. Geofiz.*, no. 10, p. 3–10. (*Chem. Abstr.*, v. 84, 124530b.)
- Shilo, N.A., Sakharova, M.S., Batrakova, Yu.A. and Ryakhovskaya, S.K.
1974: Investigation of gold and silver coprecipitation from aqueous gold-silver solutions; *Akad. Nauk SSSR, Dokl.*, v. 217, no. 6, p. 1398–1400. (*Chem. Abstr.*, v. 81, 173108s.)
- Shilo, N.A. and Shumilov, Yu.V.
1970: New experimental data on the behaviour of gold particles in an aqueous medium; *Akad. Nauk. SSSR, Dokl.*, v. 195, no. 1, p. 193–196. (*Chem. Abstr.*, v. 74, 44401p.)
1976: Mechanisms of behaviour of gold during placer formation processes in the northeast of the U.S.S.R.; 25th Intl. Geol. Congr., Sydney, Australia, *Abstr.*, v. 1, p. 224.
- Shilo, N.A., Sidorov, A.A., Goncharov, V.I. and Naiborodin, V.I.
1971: The temperature conditions and the depths of formation of gold-ore deposits; *Soc. Min. Geol. Japan, Spec. Iss.* 3, p. 356–359. (*Chem. Abstr.*, v. 76, 74717e.)
- Shilo, N.A., Sidorov, A.A., Naiborodin, V.I. and Goncharov, V.I.
1969: Gold-ore associations of the northeastern U.S.S.R.; *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 188, p. 97–99 (*Am. Geol. Inst. transl.*).
- Shilo, N.A., Sidorov, A.A. and Zhelnin, S.G.
1972: Problems of gold metallogeny and prospects for gold ore deposits in the northeastern U.S.S.R.; *Tr. Sev. Vost. Kompleks. Inst. Dal'nevost. Tsent. Akad. Nauk SSSR*, no. 44, p. 27–34. (*Chem. Abstr.*, v. 82, 88423z.)
- Shilts, W.W.
1973: Drift prospecting; geochemistry of eskers and till in permanently frozen terrain: District of Keewatin; *North-west Territories; Geol. Surv. Can., Pap.* 72–45, 34 p.
1974: Drift prospecting in the Ennadai-Rankin Inlet greenstone belt, District of Keewatin; *Geol. Surv. Can., Pap.* 74–1, pt. A, p. 259–260.
- Shima, M.
1953a: Geochemical prospecting for gold, silver, copper, lead, and zinc ore deposits; Pt. 1—Prospecting for gold and silver ores; *Reps. Sci. Res. Inst. (Japan)*, v. 29, p. 111–115. (*Chem. Abstr.*, v. 47, 12145b.)
1953b: Geochemical prospecting for gold, silver, copper, lead, and zinc ores; Pt. 4—Gold; *Reps. Sci. Res. Inst. (Japan)*, v. 29, p. 245–248. (*Chem. Abstr.*, v. 48, 1207h.)
1970: *Geochemical prospecting methods*, 2nd ed.; Kyoritsu Publ. Co. Ltd., Tokyo, 273 p.
- Shima, M. and Thode, H.G.
1971: A geochemical prospecting method using stable isotopes; in *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., *Can. Inst. Min. Metall., Spec. Vol.* 11, p. 469–472.
- Shklyar, K.T. and Kakovskii, R. Sh.
1972: Preparation and structure of gold amalgams; *Izv. Vyssh. Ucheb. Zaved., Tsvet. Met.*, v. 15, no. 1, p. 57–60.
- Shmidt, A.I.
1961: Age relations of pyrite and gold-lead-zinc mineralization in the Kurosan ore field; *Geol. Rud. Mestorozhd.*, v. 3, no. 6, p. 27–40.
- Shmotov, A.P.
1974: Tectonic deformations and the accompanying hydrothermal and metasomatic transformations of the country rocks (the Lena gold region); *Akad. Nauk. SSSR, Dokl.*, v. 218, no. 1, p. 178–181. (*Chem. Abstr.*, v. 82, 101330f.)
- Short, M.N.
1940: *Microscopic determination of the ore minerals*, 2nd ed.; U.S. Geol. Surv., *Bull.* 914, 314 p.
- Shpora, L.D., Martynov, V.V. and Mesitskii, L. Yu.
1972: Gold and silver content of the copper-bearing sandstones of Naukat; *Nauch. Tr., Tashkent Gos. Univ.*, no. 432, p. 206–212. (*Chem. Abstr.*, v. 82, 19446q.)
- Shpunt, B.R.
1969: Exploration sampling Quaternary placer deposits in Anabar-Olenek interfluvium containing gold, diamonds, and platinum; *Uch. Nauch. Issled. Inst. Geol. Arktiki, Reg. Geol.*, no. 15, p. 171–172. (*Chem. Abstr.*, v. 73, 37361b.)
1973: Placer gold occurrences in Cenozoic formations of the Lena-Anabar interfluvium; *Rossiysnaya Almazonosnost Stredni Sib.*, A.P. Puminov, ed., *Nauch. Issled. Inst. Geol. Arktiki, Leningrad, U.S.S.R.*, p. 31–35. (*Chem. Abstr.*, v. 79, 148079j.)
1974: Typomorphic characteristics and genesis of placer gold deposits in the northern Siberian platform; *Geol. Geofiz.*, no. 9, p. 77–88. (*Chem. Abstr.*, v. 82, 114186p.)
- Shvartsev, S.L.
1974: Gold in ground waters of the West-Siberian artesian basin; *Vopr. Geokhim. Podzemn. Vod Svyazi. Poiskami Rudn. Polezn. Iskop.*, p. 191–193 and 205–211. (*Chem. Abstr.* v. 86, 7334w.)
- Sidgwick, N.V.
1950: *The chemical elements and their compounds*; v. 1, p. 103–192, Oxford.
- Sidorov, A.A.
1965: Epithermal gold and silver occurrences of Sopka Rudnaya; *Geol. Rud. Mestorozhd.*, v. 7, no. 2, p. 91–96. (*Engl. rev. in Econ. Geol.*, v. 63, p. 577.)
1966: Gold-silver mineralization of Central Chukotsk; *Akad. Nauk SSSR Magadan. Sev. Vost. Kompleks. Nauch. Issled. Inst. Tr.*, vyp. 14, 146 p.
1974: On the problem of origin and evolution of a gold-silver formation; *Evol. Vulkan. Istor. Zemli Tr. Vses. Paleovulkanol. Simp. 1st 1973*, I.V. Luchitskii and G.M. Fremd, eds.; p. 424–430. (*Chem. Abstr.* v. 85, 8297c.)
- Sidorov, A.A., Gontcharov, V.I. and Naiborodin, V.I.
1971: Thermobarogeochemistry of the deposits of gold-silver formation; *Int., Geochem. Congr., Moscow, Abstract of Reports I*, p. 382–383.
- Sidorov, A.A., Naiborodin, V.I., Eremin, R.A. and Gontcharov, V.I.
1973: Peculiar features of vertical zonality of gold-silver deposits of the north-east of the U.S.S.R.; *Akad. Nauk. SSSR, Dokl.*, v. 209, no. 2, p. 440–443.
- Sidorov, A.A. and Yugai, T.A.
1972: Information about Mesozoic-Cenozoic gold-silver deposits; *Tr. Sev. Vost. Kompleks. Inst. Dal'nevost. Tsent. Akad. Nauk SSSR*, v. 44, p. 53–63. (*Chem. Abstr.*, v. 82, 101237f.)
- Siegel, F.R.
1971: Marine geochemical prospecting—present and future; in *Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds., *Can. Inst. Min. Metall., Spec. Vol.* 11, p. 251–257.
1974: *Applied geochemistry*; John Wiley & Sons, Inc., New York, 353 p.

- Siegl, W.
1972: Uranium paragenesis of Mitterberg (Salzburg, Austria); *Tschermak's Mineral. Petrogr. Mitt.*, Bd. 17, Heft 4, p. 263-275. (Chem. Abstr., v. 77, 22836u.)
- Sighinolfi, G.P. and Gorgoni, C.
1977: Gold distribution in Ivrea-Verbano gabbroic complex; *Chem. Geol.*, v. 20, no. 2, p. 99-107.
- Sighinolfi, G.P. and Santos, A.M.
1976a: Geochemistry of gold in Archean granulite facies terrains; *Chem. Geol.* v. 17, p. 113-123.
1976b: Determination of gold in geological samples at parts per milliard levels by flameless atomic-absorption spectroscopy; *Mikrochim. Acta* II, no. 1-2, p. 33-40.
- Sigit, S., Purbo-Hadiwidjojo, M.M., Sulasmoro, B. and Wirjosudjono, S.
1969: Minerals and mining in Indonesia; Ministry Mines, Djakarta, Indonesia, 123 p.
- Sigov, A.P.
1939: Prospecting by heavy mineral studies; *Trans. Ural Sci. Res. Inst. Geol. Prosp. Econ. Mineral. Sverdlovsk Mining Inst.* No. 4, 64 p.
- Sigov, A.P. *et al*
1972: Placers of the Urals - their formation, distribution and elements of geomorphic prediction; *Sov. Geogr.*, v. 13, p. 375-387.
- Sikka, D.B., Royce, J. and Nehru, C.E.
1964: Geosynclines in the Precambrian of India and their potential economic significance; *Mineral Markets*, v. 3, no. 6, p. 15-33.
- Silberman, M.L. and Ashley, R.P.
1970: Age of ore deposition at Goldfield, Nevada, from potassium-argon dating of alunite; *Econ. Geol.*, v. 65, p. 352-354.
- Silberman, M.L., Berger, B.R. and Koski, R.A.
1974: K-Ar age relations of granodiorite emplacement and tungsten and gold mineralization near the Getchell mine, Humboldt County, Nevada; *Econ. Geol.*, v. 69, p. 646-656.
- Silberman, M.L., Chesterman, C.W., Kleinhampl, F.J. and Gray, C.H.
1972: K-Ar ages of volcanic rocks and gold-bearing quartz-adularia veins in the Bodie mining district, Mono County California; *Econ. Geol.*, v. 67, p. 597-604.
- Silichev, M.K.
1970: The geology and structure of the Nezhdaninskoye gold deposit; *Geol. Rud. Mestorozhd.*, no. 2, p. 96-102.
- Silichev, M.K. and Belozertseva, N.V.
1973: Gold distribution in the sediments and igneous rocks around the Nezhdana gold-ore deposit; *Geokhim.*, no. 6, p. 931-935.
- Sillén, L.G. and Martell, A.E.
1964: Stability constants of metal-ion complexes; *Chem. Soc., Spec. Publ.* no. 17, London, 754 p.
- Simon, F.O. and Millard, H.T.
1968: Determination of gold in rocks by neutron activation analysis using fire-assay preconcentration; *Anal. Chem.*, v. 40, no. 7, p. 1150-1152.
- Simonin, L.
1880: *L'or et l'argent*; Paris, 296 p.
- Simons, F.S. and Prinz, W.C.
1973: Gold: in *United States mineral resources*, Brobst D.A. and W.P. Pratt, eds., U.S. Geol. Surv., Prof. Pap. 820, p. 263-275.
- Simpson, E.S. and Gibson, C.G.
1912: Contributions to the study of the geology and ore deposits of Kalgoorlie, East Coolgardie goldfield (in 7 parts); *Geol. Surv. West. Aust.*, Bull. 42, 198 p.
- Simpson, P.R. and Bowles, J.F.W.
1977: Uranium mineralization of the Witwatersrand and Dominion Reef systems; *Phil. Trans. R. Soc. London, Ser. A*, v. 286, p. 527-548.
- Sims, P. K., Drake, A.A., and Tooker, E.W.
1963: Economic geology of the Central City district, Gilpin County, Colorado; U.S. Geol. Surv., Prof. Pap. 359, 231 p.
- Sinclair, A.J. and Percy, G.R.
1969: Multiple regression analyses of precious metal values, Phoenix mine, British Colombia, Canada; *Econ. Geol.*, v. 64, p. 822-824.
- Singer, C.
1954: Some early goldwork; *Endeavour*, v. 13, no. 50, p. 86-93.
- Singewald, Q.D.
1950: Mineral resources of Colombia; U.S. Geol. Surv., Bull. 964-B, 204 p.
- Sinyakov, V.I.
1974: Propylitization in skarn-magnetite deposits in Gornaya Shoriya; *Tr. Inst. Geol. Geofiz., Akad. Nauk SSSR, Sib. Otd.*, v. 55, p. 138-147. (Chem. Abstr., v. 82, 173659t.)
- Sinyugina, E.Ya. and Strepetova, Z.V.
1970: Lithological characteristics of gold-bearing layers in Siberian alluvial placer deposits; *Sostoyanie Zadachi Sov. Litol., Dokl. Zased. Vses. Litol. Soveshch.*, 8th, 1968, no. 2, p. 207-212. (Chem. Abstr., v. 74, 101660y.)
- Sirin, N.A.
1963: Main stages of magmatic and metallogenic occurrences on the eastern slopes of the Urals; *Magmat. Metamorfiz. Metallogen. Urala, Sverdlovsk. Sb.*, v. 1, p. 111-120. (Chem. Abstr., v. 61, 10461b.)
- Sisco, A.G. and Smith, C.S., translators
1949: *Bergwerk- und Probierbüchlein (1500)*; Am. Inst. Min. Metall. Eng. New York, 196 p.
- Skerl, A.C.
1948: Geology of the Cariboo Gold-Quartz mine, Wells, B.C., *Econ. Geol.*, v. 43, p. 571-597.
- Skey, W.
1871: On the reduction of certain metals from their solutions by metallic sulphides, and the relation of this to the occurrence of such metals in a native state; *Trans., Proc. New Zealand Inst.*, v. 3, p. 225-231.
- Skryabin, A.E.
1972: Relation of placer gold dispersion to the location of the original deposits in the Taryn-El'ginsk area (Yano-Kolymsk gold-bearing belt); *Rosypki Zolota Ikh. Suyazi Korenniy Mestorozhd. Yakutii, Yu. N. Trushkov, ed.*, p. 46-103. (Chem. Abstr., v. 79, 7955e.)
- Skryabin, A.I.
1974: Types of gold fields of the Taryno-El'Ginskaya and Selerikanskaya zones, the Yana-Kolyma belt; *Vop. Rudonos. Yakutii, G.N. Gamyanin, ed.*, p. 175-186. (Chem. Abstr., v. 84, 76928p.)
- Skryabin, V.F.
1968: Hydrogeochemical prerequisite in prospecting for gold mineralization under mountain conditions of the Chatkal-Kurama territory; in *Rud. Form. Osn. Cherty Metallogen. Zolota Uzb.*, I. Kh. Khamrabaev, ed., *Izd. "Fan" Uzb. SSSR, Tashkent.*, p. 358-362. (Chem. Abstr., v. 73, 37340u.)
- Slaughter, A.L.
1968: The Homestake mine; in *Ore deposits of the United States, 1933-1967*; J.D. Ridge, ed., v. 2, p. 1436-1459.
- Smales, A.A.
1955: Some trace element determinations in G-1 and W-1 by neutron activation; *Geochim. Cosmochim. Acta*, v. 8, nos. 5/6, p. 300.
- Smales, A.A., Mapper, D. and Fouché, K.F.
1967: The distribution of some trace elements in iron meteorites as determined by neutron activation; *Geochim. Cosmochim. Acta*, v. 31, p. 673-720.
1968: A comparison of trace element distribution in the metal phase of chondrites and in iron meteorites; in *Origin and distribution of the elements*, L.H. Ahrens, ed., Pergamon Press, Oxford, p. 329-344.

- Smales, A.A., Mapper, D., Webb, M.S.W., Webster, R.K., Wilson, J.D. and Hislop, J.S.
1971: Elemental composition of lunar surface material (part 2); Proc., 2nd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl. 2, v. 2, p. 1253-1258.
- Smirnov, F.L. and Entin, A.R.
1975: Geochemical bond between gold and phosphorus and its significance in the estimation of the prospects of the Aldan Shield gold content; *Geokhim.*, no. 1, p. 129-131.
- Smirnov, S.S.
1951: The oxidation zone of sulphide deposits; *Akad. Nauk SSSR, Izv.*, Moscow, 335 p.
- Smirnov, V.I.
1959: Essai de subdivision metallogénique du territoire de l'U.R.S.S.; *Soc. Geol. Fr., Bull., Ser. 7, v. 1, no. 5*, p. 511-526.
1965: *Geology of economic minerals*; "Nedra" Moscow, 590 p.
1968: The sources of ore-forming material; *Econ. Geol.*, v. 63, p. 380-389.
1976: *Geology of mineral deposits*; Mir Publishers, Moscow, 520 p.
- Smirnov, V.I., ed.
1969: Problem of the occurrence of metals in ancient conglomerates in the territory of the Soviet Union; "Nauka" Moscow, 192 p.
1974: Ore deposits of U.S.S.R., vols. 1, 2, and 3, "Nedra" Moscow.
- Smirnov, V.N.
1972: Geological-geomorphological conditions for the formation of alluvial gold in the Taigonos peninsula; *Tr. Sev. Vost. Kompleks. Inst., Dal'nevost. Tsent., Akad. Nauk SSSR*, v. 44, p. 125-130. (Chem. Abstr., v. 81, 173044t.)
- Smith, A.
1948a: Tulsequah area; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 112-121.
1948b: Surf Point and Edye Pass mines; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 94-99.
- Smith, C.S. and Gnudi, M.T., translators
1959: *De la Pirotechnia* by Vannoccio Biringuccio. (1540); Am. Inst. Min. Metall. Eng., New York, 477 p.
- Smith, F.G.
1943: The alkali sulphide theory of gold deposition; *Econ. Geol.*, v. 38, p. 561-590.
1947: The pyrite geo-thermometer; *Econ. Geol.*, v. 42, p. 515-523.
1948: The ore deposition temperature and pressure at the McIntyre mine, Ontario; *Econ. Geol.*, v. 43, p. 627-636.
1951: Gold deposition temperature—pressure gradients in the Ontario-Quebec mining region; *Can. Inst. Min. Metall., Trans.*, v. 54, p. 44-48.
1953: Historical development of inclusion thermometry; Univ. Toronto Press, Toronto, 149 p.
1954: Direction of flow of late stage solutions in the Lamaque No. 6 vein; *Econ. Geol.*, v. 49, p. 530-536.
- Smith, F.G. *et al.*
1949- Temperature pressure research of hydrothermal mineral deposits; vols. 1, 2 and 3, privately printed.
- Smith, F.G. and Peach, P.A.
1949a: Recent advances in the laboratory study of ore; *Can. Inst. Min. Metall. Bull.*, no. 447, p. 351-353.
1949b: Apparatus for the recording of decrepitation in minerals; *Econ. Geol.*, v. 44, p. 449-451.
- Smith, P.S.
1908: Investigations of the mineral deposits of Seward Peninsula; *U.S. Geol. Surv., Bull.* 345, p. 206-267.
1930: The gold resources of Alaska; *Econ. Geol.*, v. 25, p. 176-196.
- Smith, W.H.
1968: Geochemical investigation of a portion of the Forty-mile district, east-central Alaska; *Alaska, Dep. Nat. Res., Div. Mines Miner., Geochem. Rep.*, no. 16, p. 1-17.
- Smolin, A.P.
1970: Native gold ores of the Urals; "Nedra", Moscow, U.S.S.R., 144 p.
1975: Structural documentation of gold deposits; "Nedra", Moscow, U.S.S.R., 240 p.
- Snelgrove, A.K.
1935: *Geology of gold deposits of Newfoundland*; Newfoundland, Dep. Nat. Resour., Geol. Sec., Bull. 2, 46 p.
- Sobolev, S.F., Anoshin, G.N. and Perezhogin, G.A.
1974: Distribution of gold in rocks of ultrabasic and basic formations in Ural; *Int. Geol. Rev.*, v. 16, p. 800-809.
- Sobolevskii, V.I.
1939: Investigation of tellurides containing gold from the Krasnyi Brook deposits (Verkhnyaya Angora River, Baikal Lake region, Siberia); *Sov. Geol.*, no. 4-5, p. 95-103. (Chem. Abstr., v. 34, 5791,5.)
1970: Noble metals, Gold (Series Science of the Earth, No. 3); "Znanie", Moscow, U.S.S.R., 48 p. (Chem. Abstr. v. 77, 129258j.)
- Sobotka, J.
1954: Aurostibite, AuSb₂, in the ore veins of Krásná Hora and Milešov (first macroscopical occurrence); *Rozpr. Česk. Akad. Ved*, v. 64, no. 7, p. 43-60.
- Sobotovitch, E.V., Rudenko, A.K. and Smirnova, A.V.
1971: Distribution of gold in kamacite of the Sikhote-Alin meteorite; *Probl. Kosmikhimii Meteoritiki, Rosshir, Yubileinyi plenum*, p. 164-169.
- Soeharto, O.
1976: Comparative study of low grade gold ore analysis; 25th Int. Geol. Congr., Sydney, Australia, Abstr., v. 2, p. 459.
- Sokoloff, V.P.
1950: Dispersion of gold in rock and soil; *Chem. Eng. Min. Rev.*, v. 43, no. 1, p. 7-10.
- Sokolov, G.A., ed.
1974: Zoning of hydrothermal ore deposits; vols. 1 and 2, Izd. "Nauka" Publ. House, Moscow, U.S.S.R.
- Solodilova, V.V.
1972: *Geology of the northern Balkhash Rivers region. Secondary quartzites. Bosaga Massif*; *Geol. Metallog. Sev. Pribalkhash'ya, Sh. E. Esenov, ed., "Nauka" Kaz. SSR, Alma-Ata, U.S.S.R.*, p. 112-117. (Chem. Abstr., v. 81, 155905v.)
- Sonstadt, E.
1872: On the presence of gold in sea water; *Chem. News*, v. 26, no. 671, p. 159-161.
- Soper, E.K.
1911: The genesis of ore deposits—II; *Eng. Min. J.*, v. 92, p. 947-949.
- Sorby, H.C.
1858: On the microscopical structure of crystals, indicating the origin of minerals and rocks; *Q. J. Geol. Soc. London*, v. 14, pt. 1, p. 453-500.
- Sorokin, V.N.
1971: Chemogenic and hydrothermal gold content of the Bakyrchik deposit (eastern Kazakhstan); *Tr., Tsent. Nauch. Issled. Gornorazved. Inst.*, no. 96. (pt. I), p. 148-158. (Chem. Abstr., v. 77, 91151d.)
1973: On the probable form of gold transportation in hydrothermal solutions; *Geokhim.*, no. 12, p. 1891-1894.
- Souther, J.G.
1967: Cordilleran volcanic study; in *Report of Activities, Pt. A, 1966, Geol. Surv. Can., Pap.* 67-1, pt. A, p. 89-92.
- Spevackova, V. and Krivanek, M.
1974: Determination of gold in platinum by neutron activation analysis; *J. Radioanal. Chem.*, v. 21, no. 2, p. 485-488. (Chem. Abstr., v. 82, 79998f.)
- Spiridonov, E.M.
1971: Gold and copper in the rocks of the Stepnyak and Bestyubinsk gold ore field; *Geol. Geofiz.*, v. 141, no. 9, p. 124-130.
- Spridonov, E.M., Sokolova, N.F. and Gapeev, A.K.
1974: Mineral associations of the Zhana-Tyube gold telluride ore deposit (northern Kazakhstan); *Geol. Rud. Mes-torozhd.*, v. 16, no. 1, p. 54-65.

- Spurr, J.E.
 1903: Gold in the dioritic rock from Mashonaland; *Eng. Min. J.*, v. 76, p. 500.
 1904: Native gold original in metamorphic gneisses; *Eng. Min. J.*, v. 77, p. 198–199.
 1905: Geology of the Tonopah mining district, Nevada; *U.S. Geol. Surv.*, Prof. Pap. 42, 295 p.
 1906: Ore deposits of the Silver Peak quadrangle, Nevada; *U.S. Geol. Surv.*, Prof. Pap. 55, 174 p.
 1923: The ore magmas—a series of essays on ore deposition (in 2 vols.); McGraw-Hill Book Co., Inc., New York, 915 p.
- Squair, H.
 1965: Geology and mineralization at the Tundra gold mine, Northwest Territories, Canada; unpubl. Ph.D. thesis, Univ. London, London, 323 p. and maps.
- Srinivasan, B., Alexander, E.C. and Manuel, O.K.
 1972: Te^{130} – Xe^{130} age determination of tellurium minerals; *Econ. Geol.*, v. 67, p. 592–596.
- Staines, H.R.E.
 1953: Mount Morgan copper and gold mine; in *Geology of Australian ore deposits*, v. 1, 5th Emp. Min. Metall. Congr., Australia and New Zealand, Melbourne, Aust., p. 732–750.
- Staff, Mount Morgan Limited
 1965: Copper-gold ore deposit of Mount Morgan; in 8th Commonw. Min. Metall. Congr., Australia and New Zealand, v. 1, *Geology of Australian ore deposits*, 2nd ed., J. McAndrew, ed., p. 364–369.
- Stanciu, C.
 1973: Hydrothermal alteration of Neogene volcanic rocks from ore deposits in Gutii Mountains (East Carpathians); *Rev. Roum. Geol., Geophys., Geog., Ser. Geol.*, v. 17, no. 1, p. 43–62 (Engl.).
- Stanikov, V.A.
 1974: Role of early gossans in the formation of gold mineral placers; Rudonos. Kory Vyvetrivaniya, p. 192–196. (Chem. Abstr., v. 82, 127475g.)
- Stanton, R.E. and McDonald, A.J.
 1964: The determination of gold in soil with brilliant green; *Analyst*, v. 89, no. 1065, p. 767–770.
- Stark, W.
 1943: Über die Goldführung der Meere; *Helv. Chim. Acta*, v. 26, p. 424–441.
- Stacey, H.R., Boyle, R.W., Charbonneau, B.W. and Grasty, R.L.
 1973: Mineralogical notes on the uranium occurrences at South March and Eldorado, Ontario; *Geol. Surv. Can.*, Pap. 73–1, pt. B, p. 103–105.
- Stacey, H.R., Plant, A.G. and Boyle, R.W.
 1974a: Notes on the association of brannerite and native gold at the Richardson mine, southeastern Ontario; *Geol. Surv. Can.*, Pap. 74–1, pt. B, p. 175.
 1974b: Brannerite associated with native gold at the Richardson mine, Ontario; *Can. Mineral.*, v. 12, p. 360–363.
- Steed, G.M., Annels, A.E., Shrestha, P.L. and Tater, P.S.
 1976: Geochemical and biogeochemical prospecting in the area of the Ogofau gold mines, Dyfed, Wales; *Inst. Min. Metall., Trans.* v. 85, B109–B117.
- Steelink, C.
 1963: What is humic acid? *J. Chem. Educ.*, v. 40, no. 7, p. 379–384.
- Steiner, A.
 1953: Hydrothermal rock alteration at Wairakei, New Zealand; *Econ. Geol.*, v. 48, p. 1–13.
 1970: Genesis of hydrothermal K-feldspar (adularia) in an active geothermal environment at Wairakei, New Zealand; *Min. Mag.*, v. 37, no. 292, p. 916–922.
- Stepanov, G.A.
 1959: The distribution of native gold in the Berezovo gold deposits (Urals); *Tr. Gorno-Geol. Inst., Akad. Nauk SSSR, Ural. Filial.*, no. 40, pt. 1, p. 159–163. (Chem. Abstr., v. 56, 11262c.)
- Stephenson, J.F.
 1971: Gold deposits of the Rice Lake-Beresford Lake greenstone belt, Southeastern Manitoba; in *Geology and geophysics of the Rice Lake region, southeastern Manitoba (Project Pioneer)*; *Man. Mines Br. Publ.* 71-1, p. 337–374.
- Stephenson, J.F. and Ehmann, W.D.
 1971: Neutron activation analysis of gold in Archean igneous and metamorphic rocks of the Rice Lake-Beresford Lake area, southeastern Manitoba; *Econ. Geol.*, v. 66, p. 933–939.
- Steven, T.A.
 1968: Ore deposits in the central San Juan Mountains, Colorado; in *Ore deposits of the United States, Graton-Sales Vol.*, J.D. Ridge, ed., v. 1, *Am. Inst. Min. Metall. Pet. Eng. Inc.*, New York, p. 706–713.
 1969: Possible relation of mineralization to thermal springs in the Creede district, San Juan Mountains, Colorado: a discussion; *Econ. Geol.*, v. 64, p. 696–698.
- Steven, T.A. and Lipman, P.W.
 1976: Calderas of the San Juan volcanic field, southwestern Colorado; *U.S. Geol. Surv.*, Prof. Pap. 958, 35 p.
- Stevens, D.N., Bloom, D.N. and Bisque, R.E.
 1969: Evaluation of mercury vapour anomalies at Colorado Central Mines, Clear Creek County, Colorado; in *Int. Geochem. Explor., Symp.*, F.C. Canney, ed., *Colo. Sch. Mines, Q.*, v. 64, no. 1, p. 513–514.
- Stevenson, I.M.
 1959: Shubenacadie and Kennetcook map-areas, Colchester, Hants and Halifax counties, Nova Scotia; *Geol. Surv. Can.*, Mem. 302, 88 p.
- Stevenson, J.S.
 1948a: Twin “J” mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 88–93.
 1948b: Localization of ore in Zeballos area; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 78–85.
- Stewart, G.O.M.
 1975: The Jewel mine; *Western Miner*, v. 48, no. 9, p. 39–42.
- Stillwell, F.L.
 1918: Replacement in the Bendigo quartz veins and its relation to gold deposition; *Econ. Geol.*, v. 13, p. 100–111.
 1949: Occurrence of tellurides at Vatukoula, Fiji; *Aust. Inst. Min. Metall., Proc.*, no. 154–155, p. 3–27.
 1950: Origin of the Bendigo saddle reefs; *Econ. Geol.*, v. 45, p. 697–701.
 1952: The occurrence of gold antimonide in the antimony veins of Costerfield, Victoria; *Aust. Inst. Min. Metall., Proc.*, nos. 164–165, p. 77–91.
 1953a: Tellurides in western Australia; in *Geology of Australian ore deposits*, v. 1, A.B. Edwards, ed., 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 119–127.
 1953b: Formation of Bendigo quartz reefs; in *Geology of Australian ore deposits*, v. 1, A.B. Edwards, ed., 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 1028–1033.
- Stillwell, F.L. and Edwards, A.B.
 1941: Coated gold from Cobar, New South Wales; *Aust. Inst. Min. Metall., Proc.*, new ser., v. 121, p. 1–10.
 1942: The mineral association of Tennant Creek gold ores; *Aust. Inst. Min. Metall., Proc.*, new ser., no. 126, p. 139–144.
 1946: An occurrence of sub-microscopic gold in the Dolphin East Lode, Fiji; *Aust. Inst. Min. Metall., Proc.*, new ser., no. 141, p. 31–46.
- Stiopol, V. and Draghici, I.
 1973: Gold and silver distribution in the Bucium deposit (Metaliferi Mountains); *Buchar. Univ., An. Ser. Geol.*, no. 22, p. 39–50 (Engl. summary).

- Stockwell, C.H.
1948: Structural control of mineral deposits in southeastern Manitoba; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 306–314.
1970: Geology of the Canadian Shield; *in* Geology and economic minerals of Canada; Geol. Surv. Can., Econ. Geol. Rep. no. 1, R.J.W. Douglas, ed., p. 45–54.
1973: Revised Precambrian time scale for the Canadian Shield; Geol. Surv. Can. Pap. 72–52, 4p.
- Stockwell, C.H. and Harrison, J.M.
1948: Structural control of ore deposits in northern Manitoba; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 284–291.
- Stokes, H.N.
1906: Experiments on the solution, transportation and deposition of copper, silver, and gold; Econ. Geol., v. 1, p. 644–650.
- Stoll, W.C.
1961: Tertiary channel gold deposits at Tipuani, Bolivia; Econ. Geol., v. 56, p. 1258–1264.
1962: Notes on the mineral resources of Ecuador; Econ. Geol., v. 57, p. 799–808.
- Stone, J.B.
1937: The structural environment of the Bendigo goldfield; Econ. Geol., v. 32, p. 867–895.
- Stone, R.W.
1912: Coal near the Black Hills, Wyoming–South Dakota; U.S. Geol. Surv., Bull. 499, 66 p.
- Stoyanka, B.-N. and Dancheva, R.
1972: Atomic-absorption method for determination of gold; Rudodobiv, no. 5, p. 25–28. (Chem. Abstr., v. 80, 55535k.)
- Strasheim, A. and Jackson, P.F.S.
1971: Analytical survey of raw bullion from South African gold mines by mass spectrography; J.S.Afr. Inst. Min. Metall., v. 72, no. 5, p. 121–138. (Chem. Abstr., v. 76, 143385j.)
- Strecheisen, A. and Ghitulescu, T.P.
1930: Les ressources d'or de Roumanie; *in* The gold resources of the world; 15th Int. Geol. Congr., Pretoria, 1929, p. 295–303.
- Street, N. and Buchanan, A.S.
1956: The zeta-potential of kaolinite particles; Aust. J. Chem., v. 9, no. 4, p. 450–466.
- Stringham, B.
1952: Fields of formation of some common hydrothermal-alteration minerals; Econ. Geol., v. 47, p. 661–664.
- Ströhl, G.W., Von
1966: Der Einfluss von Salzböden und Goldbergwerken auf die chemische Wasserqualität des Vaal zwischen Vaalstaudamm und Kimberley; Gesundh. Ing., v. 87, no. 8, p. 230–235.
- Strominger, D., Hollander, J.M. and Seaborg, G.T.
1958: Table of isotopes; Rev. Mod. Phys., v. 30, no. 2, pt. 2, p. 585–904.
- Stumpfl, E.F.
1969: Determining fineness variation characteristics in gold ores by reflectometry; Econ. Geol., v. 64, p. 341–342.
1970: New electron probe and optical data on gold tellurides; Am. Mineral., v. 55, p. 808–814.
1974: The genesis of platinum deposits: further thoughts; Minerals Sci. Eng., v. 6, no. 3, p. 120–141.
- Stumpfl, E.F. and Clark, A.M.
1965: Electron-probe microanalysis of gold-platinoid concentrates from southeast Borneo; Inst. Min. Metall., Trans., v. 74, p. 933–946.
- Suess, H.E. and Urey, H.C.
1956: Abundances of the elements; Rev. Mod. Phys., v. 28, no. 1, p. 53–74.
- Suggate, R.P.
1950: Quartzose coal measures of west Nelson and north Westland; N.Z., J. Sci. Technol., v. 31, p. 1–14.
- Suleimenov, K.D.
1973: Distribution regularities of the gold ore mineralization in the eastern part of the Arganatsinsk uplift; Akad. Nauk Kaz. SSR, Izv., Ser. Geol., v. 30, no. 6, p. 70–72. (Chem. Abstr., v. 81, 66416u.)
- Suleimanova, N.T.
1974a: Distribution of gold and silver in rocks and minerals of the Almalyk syenite-diorite massif; Uzb. Geol. Zh., v. 18, no. 5, p. 31–33. (Chem. Abstr., v. 82, 127762y.)
1974b: Gold distribution in the Almalyk syenite-diorite massif (Dal'nee deposit); Zap. Uzb. Otd. Vses. Mineral. O-va, v. 27, p. 44–45. (Chem. Abstr., v. 83, 100868w.)
- Sullivan, C.J.
1948: Ore and granitization; Econ. Geol., v. 43, p. 471–498.
1954: Metallic melting point and ore deposition; Econ. Geol., v. 49, p. 555–574.
- Sullivan, C.J. and Ivanac, J.F.
1953: The Tennant Creek Goldfield; *in* Geology of Australian ore deposits; 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 305–316.
- Sullivan, G.V., Browning, J.S. and Sanders, S.J.
1969: Recovering gold from a graphitic schist from Tallapoosa County, Ala.; U.S. Bur. Mines, Rep. Invest. 7251, 11 p.
- Sultanmuratov, Sh., Gamaleev, I.E. and Dadadzkanov, B.
1974: Case of the occurrence together of gold and cinnabar in a region of the western continuation of the southern-Fergana mercury-antimony belt; Uzb. Geol. Zh., v. 18, no. 2, p. 88–91. (Chem. Abstr., v. 82, 5941k.)
- Summers, R.
1969: Ancient mining in Rhodesia; Nat. Mus. Rhodesia, Mem. 3, Salisbury, 236 p.
- Sundell, I.G.
1936: Fineness and composition of alluvial gold from the Ivalojoki, Finnish Lapland; Finl. Comm. Geol., Bull. no. 115, p. 115–160.
- Surgai, V.T.
1973: Regional geochemical conditions of the distribution of gold in the Tien Shan; Akad. Nauk Kirg. SSR, Geol. Inst., Izd. "Ilim", Frunze, 76 p.
- Sutherland, C.H.V.
1969: Gold; its beauty power and allure, 2nd rev. ed.; McGraw-Hill, Inc., New York, 196 p.
- Sutherland Brown, A.
1957: Geology of the Antler Creek area, Cariboo district, British Columbia; B.C. Dep. Mines, Bull. No. 38, 105 p.
- Sutherland Brown, A. and Holland, S.S.
1957: The northeastern part of the Cariboo district; *in* Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 78–84.
- Sutton, A.L., Havens, R.G. and Sainsbury, C.L.
1973: A spectrochemical method for determining the composition of native gold; U.S. Geol. Surv., J. Res., v. 1, no. 3, p. 301–307.
- Svanholm, J.
1975: Gold in Honduras; World Min., v. 28, p. 30–31, 61.
- Sviridoff, A.P.
1923: Present status of gold mining in eastern Siberia; Eng. Min. J., v. 116, p. 621–628.
- Svistunov, N.V.
1970: Mechanism of the dissolution of gold in chlorine water; Publ. Higher Educ. Inst., Metallurgy of non-ferrous metals; v. 13, no. 5, p. 69–71.
- Swaine, D.J.
1955: The trace-element content of soils; Commonw. Bur. Soil Sci. (Gt. Brit.), Tech. Comm. 48, 157 p.
1962: The trace-element content of fertilizers; Commonw. Bur. Soils, Harpenden; Tech. Comm. 52, 306 p.
- Swanson, E.A. and Brown, R.L.
1962: Geology of the Buchans orebodies; Can. Inst. Min. Metall., Trans., v. 65, p. 288–296.
- Swiegers, J.U.
1940: Gold, carbon, pyrite and other sulphides in the Black Reef; Geol. Soc. S. Afr., Trans., v. 42, p. 35–45.

- Sykora, L.
1959: Plants in geological research; Czech. Acad. Sci., Prague, 322 p.
- Syrovatskii, V.V., Bal'ter, B.L. and Manaeva, A.V.
1969: Authigenic gold intergrown with osmium-iridium and platinum in Kuznetsk Alatau placer deposits; Zap. Vses. Mineral. Obshchest., v. 98, no. 3, p. 338-340. (Chem. Abstr., v. 71, 83412a.)
- Syrovatskii, V.V. and Zimoglyadov, B.N.
1969: Relation of gold placer deposits to gabbro-dunite-pyroxenite intrusive formations in western Siberia; Geol. Rossyey Yuga Zapad. Sib., V.A. Kryzhanovskii, ed., Izd. "Nauka", Moscow, U.S.S.R., p. 155-159. (Chem. Abstr., v. 72, 45984b.)
- Szádeczky-Kardoss, E.
1958: Hydrated ionic radii and hydrothermal ore genesis from the point of view of the geochemical potentials; Acta Geol., Acad. Sci. Hung., Tomus 5, Fasc. 3-4; p. 351-357.
- Szeky-Fux, V.
1964: Propylitization and potassium metasomatism; Acta Geol. (Hungary), v. 8, nos. 1-4, p. 97-117.
- Taber, S.
1913: Geology of gold belt in the James River Basin, Virginia; Va., Geol. Surv., Bull., no. 7, 271 p.
1948: Gold crystals from the southern Appalachians; Am. Mineral., v. 33, p. 482-488.
- Taguchi, S. and Watanabe, T.
1973: Clay minerals associated with gold ores from the Fuke mine, Kagoshima Prefecture, with special reference to chlorite-saponite interstratified minerals; Kyushu Daigaku Rigakubu Kenkyu Hokoku, Chishitsugaku, v. 11, no. 2, p. 243-250. (Chem. Abstr., v. 84, 138387x.)
- Takashima, K. and Igarashi, T.
1973: Metallogenic map of Japan; Geol. Surv. Japan, 1:2,000,000 map ser. no. 14.
- Takenouchi, S.
1962: Study of temperatures of mineral formation in hydrothermal ore deposits by the liquid inclusion methods; Mining Geol. (Japan), v. 12, no. 55, p. 282-293.
- Takeuchi, T. and Abe, H.
1967: Alteration processes of volcanic rocks under hydrothermal conditions (hydrothermal studies on the wall-rock alteration I); Sci. Rep., Tohoku Univ., Ser. 3, v. 10, no. 1, Sendai, Japan, p. 151-172.
- Talipov, R.M.
1968: Biogeochemical prerequisites in prospecting for gold mineralization under desert conditions; in Rud. Form. Osn. Cherty Metallogen. Zolota USSR, p. 355-358. (Chem. Abstr., v. 73, 47379c.)
1972: Distribution characteristics of copper, gold, arsenic, and silver in soils of gold ore occurrences in central Kyzyl-Kum; Zap. Uzb. Otd. Vses. Mineral. Obshchest. v. 25, p. 203-205. (Chem. Abstr., v. 78, 32562m.)
- Talipov, R.M., Adylov, B.B. and Enikeev, N.I.
1972: Geochemistry of gold, silver, and arsenic in subsurface waters of central Kyzyl-Kum; Uzb. Geol. Zh., v. 16, no. 4, p. 59-62. (Chem. Abstr., v. 78, 162326y.)
- Talipov, R.M., Aripova, Kh., Karabaev, K.K., Khatamov, Sh. and Akhunkhodzhaeva, N.
1968: Possible use of arsenic in biogeochemical prospecting for gold-ore deposits (as illustrated by Tamdytau); Uzb. Geol. Zh., v. 12, no. 5, p. 43-47. (Chem. Abstr., v. 71, 5374a.)
- Talipov, R.M., Aripova, Kh., Karabaev, K.K. and Yusupov, P.G.
1969: Results of biogeochemical surveys in central Kyzyl-Kum; Biogekhim. Poiski Rud. Mestorozhd., p. 177-182. (Chem. Abstr., v. 75, 90154d.)
- Talipov, R.M., Glushchenko, V.M. and Lezhneva, N.D.
1975: Correlation of gold content in plants and waters of several ore fields in the Karaminsk Mountains; Uzb. Geol. Zh., v. 19, no. 4, p. 21-26. (Chem. Abstr., v. 84, 33795s.)
- Talipov, R.M., Glushchenko, V.M., Nishanov, P. Kh. and Samigdzhanova, M.
1974: Distribution of gold and its accessory elements in subsurface waters of Almalyk; Zap. Uzb. Otd. Vses. Mineral. O-va, v. 27, p. 49-50. (Chem. Abstr., v. 83, 118941z.)
1976: Some principles of gold distribution and trace elements accompanying it in plants of the Almalyk ore region; Akad. Nauk. Uzb. SSR, Dokl., v. 31, no. 1, p. 53-54. (Chem. Abstr., v. 85, 35551n.)
- Talipov, R.M., Glushchenko, V.M., Tverskaya, K.L. and Nishanov, P.
1976: Some characteristics of gold and antimony distribution in plants in ore deposits of the Chatkal-Kurama region; Uzb. Geol. Zh., no. 3, p. 65-69. (Chem. Abstr., v. 85, 119581k.)
- Talipov, R.M., Karabaev, K.K. and Akhunkhodzhaeva, N.
1971: Results of biogeochemical studies in northern Tamdytau (western Uzbekistan); Zap. Uzb. Otd. Vses. Mineral. Obshchest., no. 24, p. 197-203. (Chem. Abstr., v. 77, 37514m.)
- Talipov, R.M. and Khotamov, Sh.
1973: Biogeochemical studies in the northern part of the central Kyzyl-Kum; Uzb. Geol. Zh., v. 17, no. 6, p. 26-31. (Chem. Abstr., v. 80, 132019z.)
1974: Distribution of trace elements in plants of the Tamdynsk Mountains (central Kyzyl-Kum); Uzb. Geol. Zh., v. 18, no. 1, p. 23-27.
- Tananaeff, N.A.
1925: Über die Gleichgewichtsreaktion, $\text{Fe}^{2+} + \text{Ag}^+ \rightleftharpoons \text{Fe}^{3+} + \text{Ag}$; Z. Phys. Chem., v. 114, p. 49-58.
- Taneda, S. and Mukaiyama, H.
1970: Gold deposits and Quaternary volcanoes in Southern Kyushu; Guidebook 11, Excursion B8, Int. Assoc. Genesis Ore Deposits (IAGOD), Tokyo-Kyoto Meet., 31 p.
- Tarr, W.A.
1910: Copper in the "red beds" of Oklahoma; Econ. Geol., v. 5, p. 221-226.
- Tatarinov, P.M., ed.
1971: Map of useful minerals of the world's continents (1:15,000,000 scale); All Union Sci. Res. Geol. Inst. (VSEGEI), Ministry Geol., U.S.S.R.
- Tatsch, J.H.
1973: Mineral deposits; Tatsch Associates, Sudbury, Mass., 264 p.
1975: Gold deposits, origin, evolution and present characteristics; Tatsch Associates, Sudbury, Mass., 320 p.
- Tatsumi, T., ed.
1970: Volcanism and ore genesis; Univ. Tokyo Press, Tokyo, 420 p.
- Tatsumi, T. and Watanabe, T.
1971: Geological environment of formation of the Kuroko-type deposits; Soc. Min. Geol. Japan, Spec. Iss. 3, p. 216-220.
- Taylor, C.M. and Radtke, A.S.
1967: New occurrences and data on nolanite; Am. Mineral., v. 52, p. 734-743.
- Taylor, F.C. and Schiller, E.A.
1966: Metamorphism of the Meguma Group of Nova Scotia; Can. J. Earth Sci., v. 3, p. 959-974.
- Taylor, H.K.
1964: The mode of origin of banket orebodies, discussion; 1965: Inst. Min. Metall., Trans., v. 74, no. 705, p. 801.
- Taylor, H.P.
1963: Importance of chalcophile element abundances in determining the sequence of sulfide mineral deposition from monoascendent ore-forming solutions; in Symposium Problems of Post Magmatic Ore Deposition, v. 1, J. Kutina, ed., Czech., Acad. Sci., Prague, p. 267-272.
1973: $\text{O}^{18}/\text{O}^{16}$ evidence for meteoric-hydrothermal alteration and ore deposition in the Tonopah, Comstock Lode, and Goldfield Mining districts, Nevada; Econ. Geol., v. 68, p. 747-764.

- 1974: The application of oxygen and hydrogen isotope studies to problems of hydrothermal alteration and ore deposition; *Econ. Geol.*, v. 69, p. 843-883.
- Taylor, R.B.
1948: Delnite mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 504-507.
- Taylor, S.R.
1964: Abundance of chemical elements in the continental crust; a new table; *Geochim. Cosmochim. Acta*, v. 28, p. 1273-1285.
- Taylor, S.R. and Sachs, M.
1960: Trace elements in australites; *Nature*, v. 188, p. 387-388.
- Tayurskii, D.N.
1973: Evaluation of placer gold occurrence according to native sources; *Landshafty Yuga Dal'nego Vostoka*, p. 123-125. (Chem. Abstr., v. 83, 63513d.)
- Tegengren, F.R.
1963: A historical review of gold in the Philippines; *Philipp. J. Sci.* v. 92, no. 4, p. 551-600.
- Tenyakov, V.A., Rakovskiy, E. Ye. and Filippova, T.P.
1970: Abundance and some general geochemical features of gold in bauxite (as shown by neutron activation analysis); *Akad. Nauk. SSSR, Dokl.*, v. 195, p. 194-197.
- Terziev, G.
1966: Kostovite, a gold-copper telluride from Bulgaria; *Am. Mineral.*, v. 51, p. 29-36.
- Theobald, P.K.
1957: The gold pan as a quantitative geologic tool; *U.S. Geol. Surv., Bull.* 1071-A, 54 p.
- Thomas, B.I.
1973: Gold-lode deposits, Fairbanks mining district, central Alaska; *U.S. Nat. Tech. Inform. Serv.*, PB Rep. 1973, no. 222610/8, 20 p. (Chem. Abstr., v. 80, 50450u.)
- Thomas, D.E.
1953: Mineralization and its relationship to the geological structure of Victoria; in *Geology of Australian ore deposits*, v. 1, A.B. Edwards ed.; 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 971-985.
- Thomas, F.L.
1937: Marlu gold-mining areas; *Mining Mag.*, v. 56, p. 329-341.
- Thomas, G.
1954: Electrode potentials and the dissolution of gold; *Can. Dep. Mines Tech. Surv., Mines Br., Tech. Pap.*, no. 9, 14 p.
- Thomas, T.M.
1961: The mineral wealth of Wales and its exploitation; Oliver and Boyd, Edinburgh, p. 209-213.
- Thompson, C.E., Nakagawa, H.M. and Van Sickle, G.H.
1968: Rapid analysis for gold in geologic materials; *U.S. Geol. Surv., Prof. Pap.* 600-B, p. 130-132.
- Thompson, R.M.
1949: The telluride minerals and their occurrence in Canada; *Am. Mineral.*, v. 34, p. 342-382.
- Thomson, E.
1922: The occurrence of tellurides in Ontario; *Univ. Toronto Studies, Geol. Ser.* no. 14, p. 91-98.
1928: A new telluride occurrence in Quebec; *Univ. Toronto Studies, Geol. Ser.* no. 27, p. 11-14.
- Thomson, J.E.
1936: Gold deposits of the belt extending from Manitou Lake to Lake of the Woods, Ontario; *Can. Inst. Min. Metall., Trans.*, v. 39, p. 686-701.
1938: Structure of gold deposits in the Crow River area, Ontario; *Can. Inst. Min. Metall., Trans.*, v. 41, p. 358-374.
1939a: The Crow River area; *Ont. Dep. Mines, Annu. Rep.*, 1938, v. 47, pt. 3, p. 1-65.
1939b: The Uchi Lake area; *Ont. Dep. Mines, Annu. Rep.*, 1938, v. 47, pt. 3, p. 68-82.
1948a: Regional structure of the Kirkland Lake-Larder Lake area; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 627-632.
1948b: Omega mine; in *Structural geology of Canadian ore deposits*, v. 1, Can. Inst. Min. Metall., Montreal, p. 658-662.
1950: Geology of Teck Township and the Kenogami Lake area, Kirkland Lake gold belt; *Ont. Dep. Mines, 57th Ann. Rep.*, 1948, v. 57, pt. 5, p. 1-53.
- Thomson, J.E. et al.
1950: Geology of the main ore zone at Kirkland Lake; *Ont. Dep. Mines, 57th Ann. Rep.*, 1948, v. 57, pt. 5, p. 54-188.
- Thorne, W.E.
1926: Testing and estimating alluvials; *Mining Publ. Ltd.*, London, 52 p.
- Thorpe, R.I.
1967: Controls of hypogene sulphide zoning, Rossland, British Columbia; unpubl. Ph.D. thesis, Univ. Wisconsin, Madison, Wis., 131 p.
- Thorpe, R.I. and Little, H.W.
1973: The age of sulfide mineralization at Rossland, British Columbia; *Econ. Geol.*, v. 68, p. 1337-1340.
- Thyssen-Bornemisza, S.V.
1942: Geochemische und pflanzenbiologische Zusammenhänge im Lichte der angewandten Geophysik; *Beitr. Geophys.*, v. 10, p. 35-84 (Engl. summary).
- Tihor, L.A. and Crockett, J.H.
1976: Origin and distribution of gold-bearing carbonate zones of the Kirkland Lake-Larder Lake area, Ontario; *Geol. Surv. Can., Pap.* 76-1A, p. 407-408.
- Tilling, R.I., Gottfried, D. and Rowe, J.J.
1973: Gold abundance in igneous rocks: bearing on gold mineralization; *Econ. Geol.*, v. 68, p. 168-186.
- Time-Life Books
1974: The Forty-niners; text by W.W. Johnson, Time-Life Books, New York, 240 p.
- Timofeev, V.I.
1969: Placer deposits, Western Yakutia gold placer deposits; *Str. Zemnoi Kory Yakutii Zakonomer. Rozmeshcheniya Polez. Iskop.*, Yu.P. Ivenisen, ed., p. 330-339. (Chem. Abstr., v. 73, 27542x.)
- Timofeeva, T.S.
1972: Mineralogical-geochemical characteristics of some gold ore occurrences in Central Asia; *Geol., Petrologiya, Mineral. Endogennykh Mestorozhd. Srednei Azii*, L.A. Bykov, ed., "Nedra", Moscow, U.S.S.R., p. 42-47. (Chem. Abstr., v. 80, 29156t.)
- Timofeevskii, D.A.
1971: Formation, classification, mineral types, and gold mineral associations of the gold ore deposits of the U.S.S.R.; *Tr., Tsent. Nauch. Issled. Gornorazved. Inst.*, no. 96, pt. 1, p. 5-32. (Chem. Abstr., v. 77, 64681v.)
- Timofeevskii, D.A. and Adrianova, S.I.
1974: On the physico-chemical conditions of gold deposit formation as distinct from ore formation of the U.S.S.R.; *Abstracts of Papers, Int. Assoc. Genesis Ore Deposits (IAGOD), 4th Symp.*, Varna, Bulgaria, p. 265-266.
- Tischendorf, G.
1959: Zur Genesis einiger Selenidvorkommen, insbesondere von Tilkerode im Harz; *Freiberg. Forschungsh.*, C69, p. 1-168.
1970: The influence of the country rock on the formation of the selenide paragenesis at Tilkerode, Harz Mountains; in *Problems of hydrothermal ore deposition*, Z. Poubá and M. Stempok, eds., *Int. Union Geol. Sci., Ser. A*, no. 2, p. 316-321.
- Tishchenko, E.I. and Tishchenko, M.D.
1974: Coefficient of flatness of gold in placers; *Razved. Okhr. Nedr.*, no. 3, p. 52-54. (Chem. Abstr., v. 81, 66397p.)
- Titely, S.R. and Hicks, C.L., eds.
1966: Geology of the porphyry copper deposits, southwestern North America; *Univ. Arizona Press, Tucson, Arizona*, 287 p.
- Tolbert, G.E.
1964: Geology of the Raposos gold mine, Minas Gerais, Brazil; *Econ. Geol.*, v. 59, 775-798.

- Tollon, F.
1970: Le district aurifère de Salsigne—Aude; Société des Mines et Produits Chimiques de Salsigne (Aude), JF—Editions-Impressions, 14, rue Idrac, Toulouse, 176 p.
- Tolmachev, I.I., Kalinin, S.K., Terekhov, S.L., Syromyatnikov, N.G. and Zaravnyayeva, V.D.
1971: Distribution of Pd, Pt and Au in the Rhiphaean and Cambrian igneous rocks of the Boshchekul'sk region, northeastern Kazakhstan; *Geokhim.*, no. 3, p. 325–331. Also *Geochem. Int.*, v. 8, no. 2, p. 194–199.
- Tolman, C.
1936: Lake Etchemin map-area, Quebec; *Geol. Surv. Can.*, Mem. 199, 20 p.
- Tomich, S.A.
1974: A new look at Kalgoorlie Golden Mile geology; *Proc. Australas. Inst. Min. Metall.*, no. 251, p. 35.
1976: Further thoughts on the application of the volcanogenic theory to the Golden Mile ores at Kalgoorlie; *Proc. Australas. Inst. Min. Metall.*, no. 258, p. 19–29.
- Tooker, E.W.
1963: Altered wall rocks in the central part of the Front Range mineral belt, Gilpin and Clear Creek counties, Colorado; *U.S. Geol. Surv.*, Prof. Pap. 439, 102 p.
- Topley, W.
1887: Gold and silver: their geological distribution and their probable future production; *Br. Assoc. Advanced Sci.*, Rep., p. 510–535.
- Tourtlot, H.A. and Riley, L.B.
1973: Size and shape of gold and platinum grains; in *Ore in sediments*, 8th Int. Sedimentol. Congr. 1971, p. 307–319. (*Chem. Abstr.*, v. 79, 138557z.)
- Townsley, B.F.
1935: Mine-Finders, the history and romance of Canadian mineral discoveries; Saturday Night Press, Toronto, 246 p.
- Traill, R.J.
1954: A preliminary account of the mineralogy of radioactive conglomerates in the Blind River region, Ontario; *Can. Min. J.*, v. 75, p. 63–68.
1963: A rhombohedral polytype of molybdenite; *Can. Mineral.*, v. 7, pt. 3, p. 524–526.
1970: A catalogue of Canadian minerals; *Geol. Surv. Can.*, Pap. 69-45, 649 p.
- Travin, Yu. A.
1972: Structural features of alluvial placer deposits of recent river valleys in the northeastern U.S.S.R.; *Tr. Sev. Vost. Kompleks. Inst., Dal'nevost. Tsent. Aka.*, v. 44, p. 118–125. (*Chem. Abstr.*, v. 81, 155817t.)
- Travis, G.A.
1966: Geostatistics of primary gold deposits and a study of the gold and telluride mineralization at Kalgoorlie, Western Australia; D.I.C. thesis, Imperial College Sci. Technol., London.
- Travis, G.A. and Woodall, R.
1975: A new look at Kalgoorlie Golden Mile geology; *Proc. Australas. Inst. Min. Metall.*, no. 256, p. 33–40.
- Travis, G.A., Woodall, R. and Bartram, G.D.
1971: The geology of the Kalgoorlie goldfield; *Geol. Soc. Aust., Spec. Publ.* no. 3, J.E. Glover, ed., p. 175–190.
- Trdlicka, Z. and Zyka, V.
1964: A contribution to the geochemistry of gold; *Sb. Ved. Pr. Vys. Sk. Bánské Ostrave Rocnik X., Císlo 1–2, Rada Hornicko-Geologická, Clánek c. 93*, p. 11–12.
- Tremblay, L.P.
1966: Contwoyto Lake map-area, District of Mackenzie; *Geol. Surv. Can.*, Pap. 65–21, 17 p.
- Trenholme, L.S.
1948: Belleterre mine; in *Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 796–803.
- Trenina, T.I. and Shumilov, Yu.V.
1970: Natural gold amalgam in some placer deposits of the Bilibinsk area; *Kolyma*, no. 2, p. 40–41. (*Chem. Abstr.*, v. 74, 44165q.)
- Trofimov, V.S.
1964: Basic factors controlling the formation and location of mineral placers; *Lithol. Miner. Resour.*, no. 6, p. 5–18.
1969: The origin of gold in certain ancient conglomerates; in *The problem of the occurrence of metals in ancient conglomerates in the U.S.S.R.*; "Nauka" Publ. House, Moscow-Leningrad, p. 58–63.
1971: Two varieties of economic mineral placers of littoral-marine origin; *Litol. Polez. Iskop.*, no. 6, p. 44–52. (*Chem. Abstr.*, v. 76, 88378g.)
- Troshin, Yu.P., Mikheeva, Z.I. and Alekseeva, N.N.
1961: Distribution of gold, silver, tellurium, and selenium in the sulfide minerals of Transbaikalian hydrothermal deposits of diverse origin; *Zap. Zabaikal. Filiala Geogr. Obschest. SSSR*, no. 36, p. 97–102. (*Chem. Abstr.*, v. 77, 103957m.)
- Tsonev, D.
1972: Gold and mercury from the Radka deposit; *God. Sofii. Univ., Geol. Geogr. Fak.* 1972–1973, v. 65, p. 157–165. (*Chem. Abstr.*, v. 79, 106740.)
- Tsukagoshi, S., Hashimoto, M. and Hibi, F.
1974: Gold-silver ore deposit of the Tochibora Mine, Kamio-ka, Gifu Prefecture; *Kozan Chishitsu*, v. 24, no. 2, p. 111–118. (*Chem. Abstr.*, v. 81, 124237z.)
- Tsyukov, Yu.P.
1976: The early Mesozoic gabbro-granite association and problems of gold deposits in the northwest Khentay (Mongolia); *Ezheg. Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR*, 1974, p. 86–91.
- Tsyukov, Yu.P. and Lombo, D.
1973: On the goldbearing mineralized zones in the northwest Khentay (Mongolia); *Ezheg. Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR*, 1972, L.V. Tauson, ed., p. 260.
1974: Gold in the magmatic rocks of the northwestern Khentay in the Mongolian People's Republic; *Ezheg. Inst. Geokhim. Sib. Otd., Akad. Nauk SSSR* p. 75–78. (*Chem. Abstr.*, v. 84, 47528c.)
- Tuck, R.
1968: Origin of the bedrock values of placer deposits; *Econ. Geol.*, v. 63, p. 191–193.
- Tully, D.W.
1963: The geology of the Upper Canada mine; *Can. Inst. Min. Metall., Bull.*, v. 56, no. 609, p. 24–34.
- Tunell, G.
1954: The crystal structures of the gold-silver tellurides (final report); Office of Naval Research, Contract N6 onr 275, Task Order 10, Research Project NR-081-105, Univ. California, Dep. Geol., 68 p.
- Tung, Li and Chi-Lung, Yio
1966: The abundance of chemical elements in the earth's crust and its major tectonic units; *Sci. Sinica*, v. 15, no. 2, p. 258–272.
- Tunyan, G.A.
1974: Conditions for formation of Tei-Lichkvaz gold-ore mineralization; *Zap. Arm. Otd. Vses. Mineral. O-va*, v. 6, p. 13–21. (*Chem. Abstr.*, v. 83, 63526k.)
- Turekian, K.K. and Kharkar, D.P.
1970: Neutron activation analysis of milligram quantities of Apollo 11 lunar rocks and soil; *Proc., Apollo 11 Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 1, v. 2, p. 1659–1664.
- Turkevich, J., Stevenson, P.C. and Hillier, J.
1951: A study of the nucleation and growth processes in the synthesis of colloidal gold; *Disc. Faraday Soc.*, no. 11, p. 55–75.
- Turneaure, F.S.
1955: Metallogenetic provinces and epochs; *Econ. Geol.*, 50th Anniv. Vol., pt. 1, p. 38–98.
- Turner, H.W.
1895: Auriferous gravels of the Sierra Nevada; *Am. Geol.*, v. 15, p. 371–379.
1903: The Cretaceous auriferous conglomerate of the Cottonwood Mining District, Siskiyou County, California; *Eng. Min. J.*, v. 76, p. 653–654.

- Turner, J.K.
1915: Mining in the shale at Goldfield; *Min. Sci. Press*, v. 110, p. 995-996.
- Turner, S.
1933: Economic aspects of gold and silver; *U.S. Bur. Mines, Inform. Circ.* 6740, 13 p.
- Turovskii, S.D., Makarov, V.A. and Nosyrev, I.V.
1962: Discovery of ore gravel in the Lower Carboniferous conglomerates of the Boordu region (northern Tien-Shan); *Akad. Nauk SSSR, Dokl.*, v. 147, p. 210-211. (*Chem. Abstr.*, v. 58, 5389f.)
- Tvalchrelidze, T.A.
1959: Gold-bismuth-tellurium associations in the Damblud and Zod deposits; *Geol. Sb. Kavkaz. Inst. Miner. Syr'ya*, p. 65-70. (*Chem. Abstr.*, v. 55, 24404f.)
1961: Rare-metal mineralization in the copper pyrrhotite formation on the southern slope of the Caucasus Mountains; *Tr. Kavkaz. Inst. Miner. Syr'ya, Min. Geol. Okhr. Nedr. SSSR*, no. 3, p. 15-18. (*Chem. Abstr.*, v. 60, 3882b.)
- Tylecote, R.F.
1962: Metallurgy in archaeology; *Edward Arnold Ltd., London*, 368 p.
- Tyrrell, J.B.
1912: The law of the pay-streak in placer deposits; *Inst. Min. Metall., Trans.*, v. 21, p. 593-613.
1915: Gold on the North Saskatchewan River; *Can. Min. Inst., Trans.*, v. 18, p. 160-173.
- Tyurin, N.G.
1963: On the composition of hydrothermal solutions; *Geol. Rud. Mestorozhd.*, no. 4, p. 24-42.
1965a: On finely dispersed gold in pyrite; *Geol. Rud. Mestorozhd.* v. 7, no. 5, p. 70-75. (*Engl. rev. in Econ. Geol.*, 1968, v. 63, p. 853.)
1965b: Time of precipitation of gold from metal-bearing solutions; *Akad. Nauk SSSR, Izv., Ser. Geol.*, no. 8, p. 40-44.
- Tyurin, N.G. and Kakovskii, I.A.
1960: The behaviour of gold and silver in the zone of oxidation of sulphide deposits; *News of higher educational institutions; Metallurgy of non-ferrous metals*, no. 2, p. 6-13 (in Russian).
- Udodov, P.A. and Shvartsev, S.L.
1965: Regular characteristics of trace components migration in subsurface waters of the supergene zone; *in Proc., Inter-Univ. Conf. on the Hydrogeochemistry and Paleo-Hydrogeology Methods of Prospecting for Deposits of Useful Minerals, Tomsk, Siberia*, p. 39-43.
- Uglow, W.L. and Osborne, F.F.
1926: A gold-cobaltite-iodestone deposit, British Columbia, with notes on the occurrence of cobaltite; *Econ. Geol.*, v. 21, p. 285-293.
- Ukhanov, A.V. and Pchelintseva, N.F.
1972: Gold contents of peridotite and eclogite xenoliths from a kimberlite pipe; *Geokhim.*, no. 2, p. 247. *Also Geochem. Int.*, v. 9, no. 1, p. 157.
- Uklonskii, A.S.
1970: On the geochemistry of gold; *Zap. Uzb. Otdel. Vses. Mineral Obshchest. Acad. Sci., Uzb. SSR, Tashkent*, no. 23, p. 127-131.
- Umitbayev, R.B., Sindeyev, A.S. and Zhupakhin, E.N.
1968: Prospecting for epithermal deposits of gold in north-eastern U.S.S.R.; *Int. Geol. Rev.*, v. 10, no. 7, p. 745-748.
- Umpleby, J.G.
1910: Geology and ore deposits of Republic mining district; *Wash. Geol. Surv., Bull.* no. 1, 65 p.
- U.N.E.S.C.O.
1970: Proceedings of the second seminar on geochemical prospecting methods and techniques (with special reference to their applicability in tropical humid zones); *UNESCO Miner. Resour. Dev. Ser.*, no. 38, 413 p.
- United Nations
1972: Mineral resources of the Lower Mekong Basin and adjacent areas of Khmer Republic, Laos, Thailand and Republic of Viet-Nam; *Miner. Resour. Ser.*, no. 39, 148 p.
- Urashima, Y.
1956: "Bosa" quartz veins, especially the fine-grained quartz aggregates, of the Konomai mine in Hokkaido, Japan; *J. Fac. Sci. Hokkaido Univ., Ser. 4, Geol. Mineral.*, v. 9, no. 3, p. 371-380.
- Urashima, Y. and Sato, J.
1968: Gold-bearing ores and native gold in the Shakanai Kurokô deposits of Japan; *Min. Geol. (Japan)*, v. 81, p. 11-24.
- U.S. Bureau Mines, Field Staff
1967: Production potential of known gold deposits in the United States; *U.S. Bur. Mines, Inform. Circ.* 8331, 24 p.
- U.S. Geological Survey
1968: U.S. Geological Survey heavy metals program, progress report 1966-67; *U.S. Geol. Surv., Circ.* 560, 24 p.
1969a: U.S. Geological Survey heavy metals program, progress report 1968—field studies; *U.S. Geol. Surv., Circ.* 621, 34 p.
1969b: U.S. Geological Survey heavy metals program, progress report 1968—topical studies; *U.S. Geol. Surv., Circ.* 622, 19 p.
1969c: Geochemistry of water; gold in hot spring deposits, Wyoming and Nevada; *U.S. Geol. Surv., Prof. Pap.* 650-A, p. A121.
- Usenko, I.S., Kravchenko, G.L. and Sakhatskii, I.I.
1973: Distribution of gold in ferruginous-siliceous and some other crystalline rocks of the Sea of Azov region; *Geol. Zh.*, v. 33, no. 5, p. 60-68. (*Chem. Abstr.*, v. 80, 110902e.)
- Utting, E.P.
1953: The Hannan's North gold mine; *in Geology of Australian ore deposits*, v. 1, A.B. Edwards, ed., 5th Emp. Min. Metall. Congr., Australia and New Zealand, p. 112-118.
- Uvad'ev, M.D., Gertman, Yu.L. and Markina, V.M.
1973: Nature of metasomatic processes in the Kaul'dy gold ore deposit (Uzbek S.S.R.); *Zap. Uzb. Otd. Vses. Mineral. Obshchest.*, no. 26, p. 10-12. (*Chem. Abstr.*, v. 80, 62209k.)
- Uvarov, V.V., D'yachkov, B.A., Burmistrov, V.R., Stepanov, V.M. and Madiyanov, T.
1972: Geochemistry of gold in the magmatic complexes of the Kalba-Narymsk region (eastern Kazakhstan); *Geokhim.*, no. 9, p. 1130-1132. *Also Geochem. Int.*, v. 9, no. 5, p. 774-776.
- Uytenbogaardt, W. and Burke, E.A.J.
1971: Tables for microscopic identification of ore minerals, 2nd ed.; *Elsevier Publ. Co., Amsterdam*, 430 p.
- Vakrushev, V.A.
1972: Mineralogy, geochemistry and origin of deposits of the gold-bearing skarn type; "Nauka" Publ. House, Siberian Div., Novosibirsk, U.S.S.R., 237 p.
- Vakhrushev, V.A. and Dorosh, V.M.
1966: Selenium and tellurium distribution in sulfide ore deposits of the Altai-Sayan region; *Geokhim.*, no. 11, p. 1349-1354. *Also Geochem. Int.*, v. 3, no. 6, p. 1076-1081.
- Vakhrushev, V.A., Ryabov, V.V. and Tsimbalist, V.G.
1972: Gold in some sulfide minerals in the Noril'sk region; *Geochem. Int.*, v. 9, no. 3, p. 474-477.
- Vakhrushev, V.A. and Tsimbalist, V.G.
1967: Distribution of gold in the sulfides of the Altai-Sayan skarn deposits; *Geokhim.*, no. 10, p. 1076-1081. *Also Geochem. Int.*, v. 4, no. 5, p. 972-977.
1972: Gold in terrestrial ultramafic rocks; *Geokhim.*, no. 9, p. 1128-1130. *Also Geochem. Int.*, v. 9, no. 5, p. 772-773.

- Vakhrushev, V.A., Tychinskii, A.A. and Tsimbalist, V.G.
1971: Gold content of sulfides in complex ore deposits of eastern Transbaikalia; *Geol. Geofiz.*, no. 12, p. 130-133. (Chem. Abstr., v. 76, 156670y.)
1973: Gold potential of sulfides in some polymetallic deposits of eastern Transbaikalia; *Int. Geol. Rev.*, v. 15, no. 7, p. 778-780.
- Valpeter, A.P. and Davidenko, N.M.
1970: Criteria of placer deposit relation to parental rocks; *Probl. Geol. Rossypei, Soveshch.*, (Dokl.) 3rd 1969, p. 116-124. (Chem. Abstr., v. 75, 38853s.)
- Van Aubel, R.
1934: Géochimie de l'or; *Ann. Soc. Geol. Belg.*, t. 57, p. B131-B150.
1936: Origin of graphite in the auriferous veins of Kivu; *C.R. Soc. Géol. Fr.*, p. 236-237. (Chem. Abstr., v. 31, 342.)
1939: Sur l'importance dans les minerais d'or—du calibre des particules; *Ann. Mines (Paris)*, 13e Sér., t. 16, p. 155-161.
- Van Bemmelen, R.W.
1970: The geology of Indonesia, v. 2, *Economic Geology*; Martinus Nijhoff, The Hague, 267 p.
- Van Eeden, O.R., Partridge, F.C., Kent, L.E. and Brandt, J.W.
1939: The mineral deposits of the Murchison Range east of Leydsdorp; *Union S. Afr., Dep. Mines, Geol. Surv. Div., Mem.* 36, 163 p.
- Van Hise, C.R.
1904: A treatise on metamorphism; *U.S. Geol. Surv., Monogr.*, v. 47, 1286 p.
- Van Sickle, G.H. and Lakin, H.W.
1968: An atomic-absorption method for the determination of gold in large samples of geologic materials; *U.S. Geol. Surv., Circ.* 561, 4 p.
- Van Tassel, R.E.
1969: Exploration by overburden drilling at Keno Hill Mines, Limited; *Colo. Sch. Mines, Q.*, v. 64, no. 1, p. 457-478.
- Vanderbilt, A.T.
1888: *Gold*; Swan Sonnenschein and Co., Paternoster Square, London, 155 p.
- Vandenburg, W.O.
1936: Placer mining in Nevada; *Univ. Nevada Bull.*, v. 30, no. 4, 178 p.
- Varley, T.
1922: Bureau of mines investigates gold in oil shales and its possible recovery; *U.S. Bur. Mines., Rep. Invest.*, Ser. no. 2413, 10 p.
- Vasil'ev, B.D.
1970: The distribution of gold in the skarns of the Natal'evka deposits; *Izv. Tomsk. Politekh. Inst.*, v. 239, p. 216-219.
- Vasilevskii, M.M.
1970: Correlation of propylitization and mineralization; *Probl. Metasomatizma, Tr. Konf. Okolorundnomu Metasomatizmu* 2nd, 1966, p. 115-121. (Chem. Abstr., v. 74, 144521w.)
1972: Propylites and ore formation; *Problemy Metasomatizma. (Tr. II Konf. Okolorundnomu Metasomatizmu)* Trans. All-Union Sci. Res. Geol. Inst. (VSEGEI), p. 115-121.
- Vasudev, V.N. and Naganna, C.
1973: Mineragraphy of gold-quartz-sulphide reefs of Hutti gold mines, Raichur District, Mysore State; *J. Geol. Soc. India*, v. 14, no. 4, p. 378-383.
- Vasyunina, E.D.
1963: Some regularities in the relation of placer and rock gold; *Sb. Nauch. Tr. Chelyab. Nauch. Issled. Inst. Gorn. Delta*, no. 2, p. 296-304. (Chem. Abstr., v. 61, 5372b.)
- Vaughan, B.E.
1975: Suspended particle interactions and uptake in terrestrial plants; *Rep. 1974, BNWL-SA-5132*, 22 p. (Chem. Abstr., v. 82, 151435q.)
- Veizer, J. and Demovic, R.
1969: Geochemistry of sedimentary carbonate rocks (mantle series of the high Tatra mountains and middle Triassic of the Slovak karst region); *Geol. Zb., Geol. Carpathica*, v. 20, no. 2, p. 303-332.
- Vemban, N.A., Subramanian, K.S. and Sundaram, S.M.
1972: Gold occurrences near Kotagiri, Nilgiri district, Tamil Nadu; *Indian Miner.*, v. 26, no. 2, p. 37-41.
- Vennor, H.G.
1870: Geological Survey of Canada, Report of Progress from 1866-1869, p. 165-171.
- Verhoogen, J.
1938: Thermodynamical calculation of the solubility of some important sulphides, up to 400°C; *Econ. Geol.*, v. 33, p. 34-51.
- Vertushkov, G.N., Kainov, V.I. and Chesnokov, B.V.
1972: Cosalite from the Berezovsk and Kochkarsk gold ore deposits; *Tr. Sverdlovsk. Gorn. Inst.*, v. 86, p. 106-109. (Chem. Abstr., v. 83, 13371k.)
- Vertushkov, G.N., Sokolov, Yu. A. and Popov, V.A.
1970: Vein quartz of some gold deposits of the Urals; *Acad. Sci. USSR Ural's Br.; Minerals of magmatic and metamorphic rocks of the Urals. Contrib. Geol. Geochim. Inst.*, no. 86, Sverdlovsk, U.S.S.R., p. 38-43.
- Vetluzhskikh, V.G. and Frolov, V.I.
1974: Nature of the presence of gold and causes of coal metamorphism in the Chul'man depression; *Akad. Nauk SSSR, Dokl.*, v. 217, no. 2, p. 409-411. (Chem. Abstr., v. 81, 138626n.)
- Vikhter, B.Ya., Razumova, R.V., Khol', F.I. and Kurbanov, A.Sh.
1968: The form of gold in pyrite deposits; *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 178, p. 152 (Am. Geol. Inst. transl.).
- Viktorov, S.V.
1955: The use of the geobotanical method in geological and hydrogeological investigations; *Acad. Sci. USSR, Moscow (Engl. transl. in U.S. Atom. Energy Comm., AEC-tr-3968*, 219 p.).
- Vilar, P.
1975: A history of gold and money, 1450-1920; *New Left Books*, London, 360 p.
- Viljoen, E.A.
1971: An electron-microprobe analysis of gold in the Witwatersrand banket and in ores from the Barberton Mountain Land; *Natl. Inst. Metal., S. Afr., Rep.*, no. 1361, 7 p.
- Viljoen, R.P., Saager, R. and Viljoen, M.J.
1969: Metallogenesis and ore control in the Steynsdorp Goldfield, Barberton Mountain Land, South Africa; *Econ. Geol.*, v. 64, p. 778-797.
1970: Some thoughts on the origin and processes responsible for the concentration of gold in the Early Precambrian of southern Africa; *Miner. Deposita (Berl.)*, v. 5, p. 164-180.
- Vilor, N.V. and Kazmin, L.A.
1973: Investigations of the complexing of the chloride hydrothermal system "gold and quartz"; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1972, L.V. Tauson, ed., p. 360-364.
- Vilor, N.V. and Sarapulova, V.N.
1971: Migration capacity of gold during the endogenous process; *Tr. Soveshch. Eksp. Tekh. Mineral. Petrogr.*, 8th 1968, V.V. Lapin, ed., "Nauka", Moscow, U.S.S.R., p. 90-91. (Chem. Abstr., v. 76, 102139p.)
- Vilor, N.V. and Shkarupa, T.A.
1971: Fine-disperse gold dissolution in hydrothermal solutions at high temperatures and pressures; *Int. Geochim. Congr., Abstracts of Reports I*, Moscow, U.S.S.R., p. 280-281.
- Vincent, E.A. and Smales, A.A.
1956: The determination of palladium and gold in igneous rocks by radioactivation analysis; *Geochim. Cosmochim. Acta*, v. 6, p. 154-160.

- Vincent, E.A. and Crocket, J.H.
1960: Studies in the geochemistry of gold—I. The distribution of gold in rocks and minerals of the Skaergaard intrusion, east Greenland. II. The gold content of some basic and ultrabasic rocks and stone meteorites; *Geochim. Cosmochim. Acta*, v. 18, nos. 1–2, p. 130–148.
- Vinogradov, A.P.
1953: The elementary chemical composition of marine organisms; Engl. transl. by Sears Found. Mar. Res., Mem. 2, 647 p.
1956: Regularity of distribution of chemical elements in the earth's crust; *Geochemistry*, no. 1, p. 1–43.
1959: The geochemistry of rare and dispersed chemical elements in soils, 2nd ed.; Consultants Bureau Inc., New York, 209 p.
1962: Average contents of chemical elements in the principal types of igneous rocks of the earth's crust; *Geochemistry*, no. 7, p. 641–664.
1973: Preliminary data on lunar soil collected by the Luna 20 unmanned spacecraft; *Geochim. Cosmochim. Acta*, v. 37, no. 4, p. 721–729.
- Vinogradov, A.P., Lavrukina, A.K., Ganiyev, A.G., Sil'vanovich, Yu.A. and Rakhimov, Kh.R.
1972: Partition of platinum metals and gold between phases in meteoric material, pt. 1; *Geochem. Int.*, v. 9, no. 6, p. 967–974.
1973: Distribution of platinoids and gold between various phases of the meteoritic matter, pt. 2; *Geokhim.*, no. 7, p. 963–974.
- Vinogradov, V.I.
1957: Solubility of the secondary molybdenum minerals in weak solutions of H_2SO_4 and Na_2CO_3 ; *Geochemistry*, no. 3, p. 279–286.
- Vishnevsky, A.S.
1958: New data on the distribution of indium in minerals of the oxidized zone; *Geochemistry*, no. 7, p. 851–855.
- Visnapuu, A., Marek, B.C. and Jensen, J.W.
1971: Dissociation and vaporization of gold chlorides and gold bromides; U.S. Bur. Mines, Rep. Invest. RI 7513, 22 p.
- Visser, D.J.L., ed.
1968: The symposium on the Rhodesian basement complex; *Geol. Soc. S. Afr. (Annex.)*, v. 71, 279 p.
- Vivaldi, J.L.M., Sierra, J. and Leal, G.
1971: Some aspects of the mineralization and wall-rock alteration in the Rodalquilar goldfield, S.E. Spain; *Soc. Min. Geol. Japan, Spec. Iss.* 2, p. 145–152.
- Vlasov, K.A., ed.
1966– *Geochemistry and mineralogy of rare elements and*
1968: genetic types of their deposits; Vols. I, II, and III, *Isr. Progr. Sci. Transl.*, Jerusalem.
- Vlasov, K.A., Kuz'menko, M.Z. and Es'kova, E.M.
1966: The Lovozero alkali massif; Oliver & Boyd, Edinburgh and London, 627 p.
- Vlasov, A.S. and Prigorovskii, V.I.
1971: Classification of permafrost alluvial gold deposits and unified methods of drilling prospecting; *Tr. Vses. Nauch. Issled. Inst. Zolota Redk. Metal.*, no. 31, p. 3–29. (*Chem. Abstr.*, v. 80, 23209j.)
- Vobecký, M., Frána, J., Randa, Z., Benada, J. and Kuncič, J.
1971: Analytical possibilities of reactor neutron activation method to nondestructive analysis of meteorites; *Radiochem. Radioanal. Lett.*, v. 6, no. 4, p. 237–247.
- Voin, M.I.
1971: Near-surface primary geochemical halos over the Khakandzhin gold deposit and their use in detection of blind ore bodies; *in Nauch. Osn. Geokhim. Metod. Poiskov Glubokozalegayushchikh Rud. Mestorozhd.*, Simp. 1970, v. 2, V.V. Polikarpochkin, ed., p. 60–68. (*Chem. Abstr.*, v. 78, 32513w.)
- Voin, M.I. and Kazak, A.P.
1973: Zonality of rare-metal and gold ore mineralization in the Kumak-Kotansunskoi zone of warping of the Orsk Transurals; *Tr. Vses. Nauch. Issled. Geol. Inst.*, no. 185, p. 102–111. (*Chem. Abstr.*, v. 82, 46387c.)
- Voinkov, D.M., Grinenko, L.N. and Davidenko, N.M.
1976: On the sources of the gold ore manifestations in the Chukchi folded region (from sulfur isotopic data); *Izv. Vyssh. Ucheb. Zaved. Geol. Razved.* v. 19, no. 2, p. 74–80. (*Chem. Abstr.* v. 85, 8327n.)
- Voitovich, V.S. and Khenkina, S.B.
1971: Structural characteristics and gold-bearing features of the Voitsk and Shuezersk deposits in east Karelia; *Geol. Rud. Mestorozhd.*, v. 13, no. 1, p. 102–105.
- Vokes, F.M.
1958: Metallogenic provinces and epochs in Norway; *Saertrykk av Tidsskrift for Kjemi, Bergvesen Og Metallurgi* 4, p. 47–55.
- Volarovich, G.P.
1972: Prospects for revealing subsurface gold-ore deposits related to volcanogenic formations; *Sov. Geol.*, no. 11, p. 74–85.
- Volarovich, G.P., Andrusenko, N.I. and Shchepot'ev, Yu. M.
1974: Conditions of formation of near surface gold and mercury mineralization in Kamchatka; *Abstracts of Papers, Int. Assoc. Genesis Ore Deposits (IAGOD)*, 4th Symp., Varna, Bulgaria, p. 423–424.
- Volarovich, G.P. and Mikhailova, M.S.
1973: Metasomatism and gold mineralization in young volcanic belts in the eastern U.S.S.R.; *Evol. Vulkanizma Istor. Zemli, Mater. Vses. Paleovulkan*, p. 277–278. (*Chem. Abstr.*, v. 84, 20362g.)
- Volarovich, G.P. and Shilin, N.G.
1971: Gold behaviour during crystallization of granitoid magma on the example of the Miocene gabbro-granodiorite formation in central Kamchatka; *Int. Geochem. Congr., Moscow, U.S.S.R., Abstracts of Reports II*, p. 664–665.
- Volarovich, G.P. and Shokhor, F.A.
1970: Relation of gold placer deposits with parental sources in the Far East; *Probl. Geol. Rossypei, Soveshch. (Dokl.)* 3rd 1969, V.I. Smirnov, ed., *Sev. Vost. Kompleks. Inst., Magadan, U.S.S.R.*, p. 147–154. (*Chem. Abstr.*, v. 75, 38849v.)
- Volchenko, Yu.A.
1970: Composition of platinoids and gold in the Gusevogorsk gabbro-pyroxenite massif (central Urals); *Ezheg. Inst. Geol. Geokhim. Akad. Nauk SSSR, Ural. Filial* 1969, p. 188–192. (*Chem. Abstr.*, v. 78, 162055j.)
- Vol'fson, N.B., Chembarisov, Sh. A. and Chisty, B.I.
1962: Geochemical and geophysical methods for prospecting for gold ore mineralization in Uzbekistan; *Byull. Nauch. Tekh. Inform. Min. Geol. Okhr. Nedr. SSSR*, no. 1, p. 52–56. (*Chem. Abstr.*, v. 60, 3881c.)
- Volkov, G.A. and Shakhbazova, L.V.
1973: Data on the geochemistry of gold in natural waters of the Beskes ore field; *Izv. Vyssh. Ucheb. Zaved. Geol. Razved.*, v. 16, no. 9, p. 92–98. (*Chem. Abstr.*, v. 80, 72894u.)
- Volodin, V.F.
1966: Precambrian gold-bearing conglomerates of U.S.S.R.; *Int. Geol. Rev.*, v. 8, no. 7, p. 874–880.
- Von Cotta, B.
1870: A treatise on ore deposits; D. Van Nostrand, New York, 574 p.
- Von Palffy, M.
1911– *Geologische Verhältnisse und Erzgänge der Bergbaue*
1912: des Siebenbürgischen Erzgebirges; *Mitt. Jahrb. Kgl. Ung. Geol.*, Bd. 18, p. 229–526.
- Von Rahden, H.V.R.
1965: Apparent fineness values of gold from two Witwatersrand gold mines; *Econ. Geol.*, v. 60, p. 980–997.

- Von Rahden, H.V.R. and Urli, G.L.P.
1969: The association of gold and uranium with other minerals in different Witwatersrand reefs; *Natl. Inst. Metal., S. Afr., Res. Rep. no. 837*, 40 p.
- Von Veimarn, P.
1913: Precipitation of gold in orebodies; *Z. Chem. Ind. Kolloide*, v. 11, p. 287. Also *Sci. Press*, 1913, v. 107, p. 309.
- Vorob'ev, V.P. and Chernysheva, V.S.
1972: Mineralogical study of the heavy fractions of marine sediments from the shelves of the Sea of Japan; *Izv. Vyssh. Ucheb. Zaved., Geol. Razved.*, v. 15, no. 1, p. 42-50. (*Chem. Abstr.*, v. 76, 88679f.)
- Vorob'ev, V.P. and Kolesov, S.V.
1975: Stream transport of placer gold; *Lithol. Miner. Resour.*, v. 10, no. 3, p. 378-380 (*Transl. Consultants Bureau, New York*).
- Vorob'yev, V.P. and Krapivner, R.B.
1975: Preliminary classification of coastal-marine placers; *Int. Geol. Rev.*, v. 17, no. 7, p. 823-829.
- Voronin, D.V. and Goldberg, I.S.
1972: Electrochemical processes in placer deposits of native metals; *Akad. Nauk SSSR, Dokl.*, v. 207, no. 1, p. 190-192.
- Vorotnikov, V.A., Nikolaeva, N.M. and Pirozhkov, A.V.
1973: Forms of deposition of gold in waters of the southern Enisei region; *Geol. Geofiz.*, no. 11, p. 37-42. (*Chem. Abstr.*, v. 80, 147749m.)
- Voskresenskaya, N.T.
1967: Geochemical behaviour of thallium and rubidium in geological processes and their petrogenetic significance; *in Chemistry of the Earth's Crust*, vol. 2, A.P. Vinogradov, ed., *Isr. Progr. Sci. Transl.*, Jerusalem, p. 401-415.
- Voskresenskaya, N.T. and Zvereva, N.F.
1968: Geochemistry of gold and its distribution in the magmatic complexes of northern Kazakhstan; *Geokim.*, no. 4, p. 422-431. Also *Geochem. Int.*, v. 5, no. 2, p. 373-381.
- Voskresenskaya, N.T., Zvereva, N.F., Konkina, O.M. and Feldman, V.I.
1970: Behaviour of gold in the process of basic magma differentiation; *Geokhim.*, no. 12, p. 1438-1445.
- Vsevolozhskaya, M.A.
1966: Use of hydrochemical methods of prospecting in areas with insular distribution of permafrost; *Merzlotnye Issled.*, *Geol. Fak., Kafedra Merzlotoved. Mosk. Univ.*, Sb. Statei no. 6, p. 175-183. (*Chem. Abstr.*, v. 66, 12933g.)
- Wagner, P.A.
1926: Occurrence of platinum metals in South Africa; *Econ. Geol.*, v. 21, p. 109-134, 243-270.
1927: A new gold discovery in the Rustenburg district, Transvaal; *Geol., Soc. S. Afr., Trans.*, v. 29, p. 95-108.
- Wagoner, L.
1901: The detection and estimation of small quantities of gold and silver; *Am. Inst. Min. Eng., Trans.*, v. 31, p. 798-810.
1908: The presence of gold and silver in deep-sea dredgings; *Am. Inst. Min. Eng., Trans.*, v. 38, p. 704-705.
- Wakabayashi, K., Sukeshita, M. and Uemura, K.
1973: Geology and exploration of Kushikino mine, Kagoshima Prefecture; *Min. Geol. (Japan)*, v. 23, p. 190 (abstr.).
- Walker, A.L. and Buchanan, A.S.
1969: Geochemical processes in ore formation, Pt. 1. The production of hydrothermal fluids from sedimentary sequences; *Econ. Geol.*, v. 64, p. 919-922.
- Walker, T.L.
1921: "Allemontite" from Atlin, B.C.; *Am. Mineral.*, v. 6, no. 6, p. 97-99.
- Wang, Y.
1973a: Wall rock alteration of Late Cenozoic mineral deposits in Taiwan: Geologic settings and field relations; *Geol. Soc. China, Proc.*, no. 16, p. 145-160.
1973b: Wall rock alteration of Late Cenozoic mineral deposits in Taiwan. Mineralogical and physicochemical aspects; *Acta Geol. Taiwan.*, no. 16, p. 1-29. (*Chem. Abstr.*, v. 80, 62157s.)
- Wänke, H., Baddenhausen, H., Dreibus, G., Jagoutz, E., Kruse, H., Palme, H., Spettel, B. and Teschke, F.
1973: Multielement analyses of Apollo 15, 16, and 17 samples and the bulk composition of the moon; *in Proc. 4th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 4, v. 2, p. 1461-1481.
- Wänke, H., Begemann, F., Vilček, E., Rieder, R., Teschke, F., Born, W., Quijano-Rico, M., Voshage, H. and Wlotzke, F.
1970: Major and trace elements and cosmic-ray produced radioisotopes in lunar samples; *Science*, v. 167, no. 3918, p. 523-525.
- Wänke, H., Palme, H., Baddenhausen, H., Dreibus, G., Jagoutz, E., Kruse, H., Spettel, B., Teschke, F. and Thacker, R.
1974: Chemistry of Apollo 16 and 17 samples: bulk composition, late stage accumulation and early differentiation of the moon; *in Proc., 5th Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 5, v. 2, p. 1307-1335.
- Wänke, H., Wlotzka, F., Baddenhausen, H., Balacescu, A., Spettel, B., Teschke, F., Jagoutz, E., Kruse, H., Quijano-Rico, M. and Rieder, R.
1971: Apollo 12 samples: chemical composition and its relation to sample locations and exposure ages, the two component origin of the various soil samples and studies on lunar metallic particles; *Proc., 2nd Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 2, v. 2, p. 1187-1208.
- Wanless, R.K., Boyle, R.W. and Lowdon, J.A.
1960: Sulfur isotope investigation of the gold-quartz deposits of the Yellowknife district; *Econ. Geol.*, v. 55, p. 1591-1621.
- Ward, F.N., ed.
1975: New and refined methods of trace analysis useful in geochemical exploration; *U.S. Geol. Surv., Bull.* 1408, 105 p.
- Ward, H.J.
1958: Albite porphyries as a guide to gold ore; *Econ. Geol.*, v. 53, p. 754-756.
- Ward, J.H.W.
1968: Geological aspects of the Patchway gold mine, Rhodesia; *Geol. Soc. S. Afr. (Annex.)*, v. 71, p. 147-158.
- Ward, W. et al.
1948: The gold mines of Kirkland Lake; *in Structural geology of Canadian ore deposits*, v. 1, *Can. Inst. Min. Metall.*, Montreal, p. 644-653.
- Warren, H.V.
1936: A gold-bismuth occurrence in British Columbia; *Econ. Geol.*, v. 31, p. 205-211.
- Warren, H.V. and Cummings, J.M.
1937a: The relationship between gold and metallic minerals in British Columbia; *Can. Inst. Min. Metall., Trans.*, v. 40, p. 1-4.
1937b: Textural relations in gold ores of British Columbia; *Am. Inst. Min. Metall. Eng., Tech. Publ.* no. 777, 15 p.
- Warren, H.V. and Delavault, R.E.
1950: Gold and silver content of some trees and horsetails in British Columbia; *Geol. Soc. Am., Bull.*, v. 61, pt. 1, p. 123-128.
1959: Pathfinding elements in geochemical prospecting; *Symp. Explor. Geoquim.*, v. 2, 20th Int. Geol. Congr., Mexico, 1956, p. 255-260.
- Warren, H.V., Delavault, R.E. and Barakso, J.
1964: The role of arsenic as a pathfinder in biogeochemical prospecting; *Econ. Geol.*, v. 59, p. 1381-1385.
1968: The arsenic content of Douglas fir as a guide to some gold, silver and base metal deposits; *Can. Inst. Min. Metall., Bull.*, v. 61, no. 675, p. 860-866.
- Warren, H.V. and Hajek, J.H.
1973: An attempt to discover a "Carlin-Cortez"; *Western Miner*, v. 46, no. 10, p. 124-134.

- Warren, H.V. and Matthews, W.H.
1942: Some notes on a gold-tungsten occurrence in the Bridge River district; *Miner.*, v. 15, no. 5, p. 31–34.
- Warren, H.V. and Thompson, R.M.
1944: Minor elements in gold; *Econ. Geol.*, v. 39, p. 457–471.
- Warren, R.G.
1972: A commentary on the metallogenic map of Australia and Papua, New Guinea; *Aust. Bur. Miner. Resour., Geol. Geophys., Bull.* 145, 83 p.
- Washington, R.A. and Holman, R.H.C.
1966: A rapid and sensitive method for determining gold in rocks and other geological materials; *Geol. Surv. Can., Pap.* 65-7, 18 p.
- Wasson, J.T. and Baedeker, P.A.
1970: Ga, Ge, In, Ir and Au in lunar, terrestrial and meteoritic basalts; *in Proc., Apollo 11 Lunar Sci. Conf., Geochim. Cosmochim. Acta, Suppl.* 1, v. 2, p. 1741–1750.
- Watanabe, M.
1952: Modes of occurrence of tellurium-bearing minerals in Japan; *Tohoku Univ., Sci. Reps. ser. 3*, v. 4, no. 2, p. 45–80.
- Watanabe, T.
1943: Geology and mineralization of the Suian district, Tyosen (Korea); *J. Fac. Sci., Hokkaido Univ., ser. 4, Geol. Min.* v. 6, nos. 3–4, p. 205–303.
- Watkins, T.H.
1971: Gold and silver in the west; *American West Publ. Co., Palo Alto, Calif.*, 287 p.
- Watson, J.P.
1970: Contribution of termites to development of zinc anomaly in Kalahari sand; *Inst. Min. Metall., Trans.*, v. 79, sec. B, p. 53–59.
1972: The distribution of gold in termite mounds and soils at a gold anomaly in Kalahari sand; *Soil Sci.*, v. 113, no. 5, p. 317–321.
- Watson, J.V.
1973: Influence of crustal evolution on ore deposition; *Inst. Min. Metall., Trans.*, v. 82, sec. B, p. 107–113.
- Watterson, J.R., Gott, G.B., Neuerburg, G.J., Lakin, H.W. and Cathrall, J.B.
1976: Tellurium dispersion patterns as guides to mineral deposits; *25th Int. Geol. Congr., Abstr.*, Sydney, Australia, v. 2, p. 462.
- Way, H.J.R.
1965: The mode of origin of banket orebodies, discussion; *Inst. Min. Metall., Trans.*, v. 74, no. 704, p. 571–574.
- Weatherbe, D.
1907: *Dredging for gold in California*; Mining Scientific Press, San Francisco, 217 p.
- Webb, J.S.
1958: Observations on geochemical exploration in tropical terrains; *Symp. Explor. Geoquim.*, v. 1, 20th Int. Geol. Congr., Mexico, 1956, p. 143–173.
- Webber, B.N.
1935: Bajada placers of the arid southwest; *Am. Inst. Min. Metall., Eng. Tech. Publ.*, no. 588, 16 p.
- Weber, W. and Stephenson, J.F.
1973: The content of mercury and gold in some Archean rocks of the Rice Lake area; *Econ. Geol.*, v. 68, p. 401–407.
- Wedepohl, K.H.
1971: *Geochemistry*; Holt, Rinehart and Winston, Inc., New York, 231 p.
- Weed, W.H.
1901: The enrichment of gold and silver veins; *Am. Inst. Min. Eng., Trans.*, v. 30, p. 424–448.
1902: The enrichment of gold and silver veins; *in Genesis of ore deposits*, by Franz Pošepný, 2nd ed., *Am. Inst. Min. Eng.*, New York, p. 473–497.
1904a: Original native gold in igneous rocks; *Eng. Min. J.*, v. 77, p. 440–441.
1904b: Free gold in basic igneous rocks in southeastern Russia; *Eng. Min. J.*, v. 77, p. 522–523.
- 1905: Economic value of hot springs and hot-spring deposits; *U.S. Geol. Surv., Bull.* 260, p. 598–604.
- Weeks, M.E.
1968: *Discovery of the elements*, 7th ed.; publ. by Journal Chemical Education, Easton, Pa., 806 p.
- Weil, G.L. and Davidson, I.
1970: *The gold war*; Secker and Warburg, London, 245 p.
- Weinig, A.J.
1960: Gold forms in ores; *Mines Mag.*, v. 50, p. 27–32.
- Weiser, H.B.
1933: *Inorganic colloid chemistry*, v. 1, *The colloidal elements*; John Wiley & Sons, Inc., New York, 389 p.
1935: *Inorganic colloid chemistry*, v. 2, *The hydrous oxides and hydroxides*; John Wiley & Sons, Inc., New York, 429 p.
- Weiss, H.V. and Lai, M.G.
1963: CocrySTALLIZATION of ultramicro quantities of elements with 2-mercaptobenzimidazole: determination of gold in sea water; *Anal. Chim. Acta*, v. 28, p. 242–248.
- Weissberg, B.G.
1969: Gold-silver ore-grade precipitates from New Zealand thermal waters; *Econ. Geol.*, v. 64, p. 85–108.
1970: Solubility of gold in hydrothermal alkaline sulfide solutions; *Econ. Geol.*, v. 65, p. 551–556.
- Weissberg, B.G. and Wodzicki, A.
1970: Geochemistry of hydrothermal alteration and origin of sulphide mineralization at the Tui mine, Te Aroha, New Zealand; *N.Z. J. Sci.*, v. 13, no. 1, p. 36–60.
- Wells, J.D.
1971: Association of gold and arsenic with pyrite, Cortez and Carlin mines, Nevada; *Econ. Geol.*, v. 66, p. 1270–1271 (abstr.).
- Wells, J.D. and Elliott, J.E.
1971: Geochemical reconnaissance of the Cortez-Buckhorn area, southern Cortez Mountains, Nevada; *U.S. Geol. Surv., Bull.* 1312-P, 18 p.
- Wells, J.D. and Mullens, T.E.
1973: Gold-bearing arsenian pyrite determined by microprobe analysis, Cortez and Carlin gold mines; *Econ. Geol.*, v. 68, p. 187–201.
- Wells, J.D., Stoiser, L.R., and Elliott, J.E.
1969: Geology and geochemistry of the Cortez gold deposit, Nevada; *Econ. Geol.*, v. 64, p. 526–537.
- Wells, J.H.
1973: *Placer examination-Principles and Practice*; U.S. Dep. Interior, Bur. Land Management, Tech. Bull. 4, 204 p.
- Wennervirta, H., Bölviken, B. and Nilsson, C.A.
1971: Summary of research and development in geochemical exploration in Scandinavian countries; *in Geochemical exploration*, R.W. Boyle and J.I. McGerrigle, eds.; *Can. Inst. Min. Metall., Spec. Vol.* 11, p. 11–14.
- Wernecke, L.
1932: Alaska Juneau—geology of the ore zones; *Eng. Min. J.*, v. 133, p. 493–499.
- West, J.M.
1971: How to mine and prospect for placer gold; *U.S. Bur. Mines, Inform. Circ.* 8517, 43 p.
1975: *Gold*; U.S. Dep. Interior, Bur. Mines, *Miner. Yearb.*, v. 1, 1974, p. 603–626.
- West, W.F.
1973: *Geochemical field assaying made easy*; Rhodesia, Chamber Mines J., v. 15, no. 2, p. 33–35.
- White, C.E., Ross, R.H. and Campbell, N.
1949: The Con-Rycon Mine, Yellowknife, N.W.T.; *Can. Inst. Min. Metall., Trans.*, v. 52, p. 133–147.
- White, D.E.
1955: Thermal springs and epithermal ore deposits; *Econ. Geol., 50th Anniv. Vol.*, pt. 1, p. 99–154.
1974: Diverse origins of hydrothermal ore fluids; *Econ. Geol.*, v. 69, p. 954–973.

- White, D.E., Anderson, E.T. and Grubbs, D.K.
1963a: Geothermal brine well: mile deep hole may tap ore-bearing magmatic water and rocks undergoing metamorphism; *Science*, v. 139, p. 919-922.
- White, D.E., Hem, J.D. and Waring, G.A.
1963b: Chemical composition of sub-surface waters; *in* Data of geochemistry, 6th ed., U.S. Geol. Surv., Prof. Pap. 440-F, 67 p.
- White, D.E. and Waring, G.A.
1963: Volcanic emanations; *in* Data of geochemistry, 6th ed., U.S. Geol. Surv., Prof. Pap. 440-K, 29 p.
- White, M.G.
1956: Uranium in the Serra de Jacobina State of Bahia, Brazil; *in* Proc. U.N. Int. Conf. Peaceful Uses of Atomic Energy, Geneva, v. 6, p. 140-142.
1961: Origin of uranium and gold in the quartzite-conglomerate of the Serra de Jacobina, Brazil; U.S. Geol. Surv., Prof. Pap. 424-B, p. 88-89.
- White, W.H.
1943: The mechanism and environment of gold deposition in veins; *Econ. Geol.* v. 38, p. 512-532.
- Whitebread, D.H. and Hoover, D.B.
1968: Preliminary results of geological, geochemical, and geophysical studies in part of the Virginia City quadrangle, Nevada; U.S. Geol. Surv., Circ. 596, 19 p.
- Whiting, F.B.
1959: Structural belts and mineral deposits of northwestern Argentina; *Econ. Geol.*, v. 54, p. 903-912.
- Whitmore, D.R.E., Berry, L.G. and Hawley, J.E.
1946: Chrome micas; *Am. Mineral.*, v. 31, p. 1-21.
- Whittaker, E.J.W. and Muntus, R.
1970: Ionic radii for use in geochemistry; *Geochim. Cosmochim. Acta*, v. 34, p. 945-956.
- Whittle, A.W.G.
1965: The scope for mineral exploration in New Zealand; *Mining Chem. Eng. Rev. (Australia)*, v. 57, no. 2, p. 19-23.
- Wicks, C.E. and Block, F.E.
1963: Thermodynamic properties of 65 elements—their oxides, halides, carbides and nitrides; U.S. Bur. Mines, Bull. 605.
- Wiebols, J.H.
1955: A suggested glacial origin for the Witwatersrand Conglomerates; *Geol. Soc. S. Afr., Trans.*, v. 58, p. 367-382.
- Willden, R. and Hotz, P.E.
1955: A gold-scheelite-cinnabar placer in Humboldt County, Nevada; *Econ. Geol.*, v. 50, p. 661-668.
- Williams, G.J.
1974: Economic geology of New Zealand; *Australas. Inst. Min. Metall. Monog. Ser. 4*, 2nd Ed., 490 p.
- Williams, M.
1918: Absorption of gold from colloidal solutions by fungi; *Ann. Bot.*, v. 32, p. 532-534.
- Williams, S.A.
1972: Embreyite, a new mineral from Berezov, Siberia; *Mineral. Mag.*, v. 38, p. 790-793.
- Williamson, H.C. and Barr, D.J.
1965: Gold mineralization in the Yilgarn goldfield; *in* Geology of Australian ore deposits, 2nd ed., J. McAndrew, ed., 8th Commonw. Min. Metall. Congr., p. 87-94.
- Willimott, C.W.
1884- Minerals of the Ottawa district; *Ottawa Field-Naturalists' Club, Trans.*, no. 6, vol. 2, no. 2, p. 189-210.
- Willis, J.L.
1973: Mining history of gold deposits of the Far South Coast, New South Wales; *N.S.W., Geol. Surv., Bull.*, v. 24, p. 1-117. (*Chem. Abstr.*, v. 82, 114276t.)
- Wilson, E.D. and Fansett, G.R.
1961: Arizona gold placers; small scale gold placering; *in* Gold placers and placering in Arizona, Ariz., *Bur. Mines, Bull.* 168, p. 11-117.
- Wilson, H.D.B.
1944: Geochemical studies of the epithermal deposits at Goldfield, Nevada; *Econ. Geol.*, v. 39, p. 37-55.
- Wilson, H.S.
1948: Lamaque mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 882-891.
- Wilson, I.R.
1971: Progress report on a study on geochemical variations in wall rock, Ashanti gold mine, Obuasi, Ghana; *Univ. Leeds, Dep. Earth Sci., 15th Annu. Rep., Res. Inst. Afr. Geol.*, p. 39-43.
1972: Carbonaceous matter in wall rock, Ashanti gold mine, Obuasi, Ghana; *Univ. Leeds Res. Inst. Afr. Geol. Dep. Earth Sci. Annu. Rep. Sci. Results*, no. 16, p. 33-34.
- Wilson, M.E.
1948a: Structural features of the Noranda-Rouyn area; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 672-683.
1948b: McWatters mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 783-789.
1965: The Deloro stock and its mineralized aureole; *Econ. Geol.*, v. 60, p. 163-167.
- Wilson, M.E., Hopper, R.V. and Trenholme, L.S.
1948: Rouyn Merger mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 789-796.
- Wilson, M.E. and Lee, A.C.
1948: Senator-Rouyn mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 735-739.
- Wilson, M.E. and McQuarry, W.R.
1948: Stadacona mine; *in* Structural geology of Canadian ore deposits, v. 1, Can. Inst. Min. Metall., Montreal, p. 776-782.
- Wilson, N.W.
1948: Iran and its mineral resources; *Mining Mag.*, v. 74, p. 277-289.
- Wise, E.M., ed.
1964: Gold: recovery, properties, and applications; D. Van Nostrand Co. Inc., Princeton, New York, 367 p.
- Wisser, E.
1941: Albite and gold; *Econ. Geol.*, v. 36, p. 658-663.
- Wiwchar, M.B.
1957: Consolidated Discovery Yellowknife mine; *in* Structural geology of Canadian ore deposits, v. 2, Can. Inst. Min. Metall., Montreal, p. 201-209.
- Wlotzka, F., Spettel, B. and Wänke, H.
1973: On the composition of metal from Apollo 16 fines and the meteoritic component; *in* Proc. 4th Lunar Sci. Conf., *Geochim. Cosmochim. Acta, Suppl.* 4, v. 2, p. 1483-1491.
- Wolfe, W.J.
1975: Gold in early Precambrian plutonic rocks; the relation between geochemical abundance and concentration to exploitable levels; *Soc. Mining Eng., Am. Inst. Min. Eng.*, prepr. 75-L-5, 17 p.
- Wolfenden, E.D.
1965: Bau Mining district, West Sarawak, Malaysia, Pt. 1: Bau; Malaysia, *Geol. Surv., Borneo region, Bull.* 7, pt. 1, 147 p.
- Wong, W.H.
1919: The mineral resources of China; *Geol. Surv. China, Ser. B*, no. 1, 270 p.
- Wood, E.D.
1971: Gold in sea water; unpubl. Ph.D. thesis, Univ. Alaska, College, Alaska.
- Wood, J.M.
1974: Biological cycles for toxic elements in the environment; *Science*, v. 183, p. 1049-1052.

- Woodall, R.W.
 1965: Structure of the Kalgoorlie goldfield; *in* 8th Commonw. Min. Metall. Congr., Australia and New Zealand, v. 1, Geology of Australian ore deposits, 2nd ed., J. McAndrew, ed., p. 71-79.
 1975a: Gold resources of Australia; Private Rep., Western Mining Corp. Ltd., Kalgoorlie, Western Australia, 24 p.
 1975b: Gold resources of Australia; *in* Proceedings 5th Gold and Money Session and Gold Technical Session, Pacific Northwest Metals and Minerals Conference, Portland, Oregon, Oreg. Dep. Geol. Miner. Ind. publ., p. 106-138.
- Woodtli, R.
 1961a: Gold impregnation deposits in the Moto area (central Africa); *Econ. Geol.*, v. 56, p. 603-607.
 1961b: Relationships of general structure to gold mineralization in the Kilo area (central Africa); *Econ. Geol.*, v. 56, p. 584-591.
 1977: Geologic factors in looking for hidden gold deposits; *in* Problems of ore deposition, v. 2, 4th IAGOD Symp., Varna, Bulgaria, B. Bogdanov, ed., Bulgarian Acad. Sci., Sofia, p. 409-412.
- Worst, B.G.
 1960: The great dyke of southern Rhodesia; *South. Rhodesia Geol. Surv. Bull.* 47, 234 p.
- Worthington, J.E. and Kiff, I.T.
 1970: A suggested volcanogenic origin for certain gold deposits in the Slate Belt of the North Carolina Piedmont; *Econ. Geol.*, v. 65, p. 529-537.
- Wright, K.
 1969: Textures from some epigenetic mineral deposits of Tennant Creek-central Australia; *in* Remobilization of ores and minerals, P. Zuffardi, ed., Cagliari, Italy, p. 219-251.
- Wright, L.B.
 1947: Geologic relations and new ore bodies of the Republic district, Washington; *Am. Inst. Min. Metall. Eng., Tech. Publ.* no. 2197, 19 p.
 1976: Fifty six years of exploration: a search for gold; Craftsman Printers, Lubbock, Tex., 234 p.
- Wrücke, C.T. and Armbrustmacher, T.J.
 1973: Geochemical analyses of bedrock samples collected in the Gold Acres and Tenabo areas northern Shoshone Range, Nevada; *U.S. Natl. Tech. Inform. Serv., PB Rep.*, no. 220645/6, 136 p. (*Chem. Abstr.*, v. 79, 138693r.)
- Wrücke, C.T., Armbrustmacher, T.J. and Hessin, T.D.
 1968: Distribution of gold, silver and other metals near Gold Acres and Tenabo, Lander County, Nevada; *U.S. Geol. Surv., Circ.* 589, 19 p.
- Wybergh, W.
 1930: Goldfields of Pilgrims Rest and Sabie; *in* The gold resources of the world, 15th Int. Geol. Congr., Pretoria, p. 320-332.
- Wychoff, D., translator
 1967: Book of minerals by Albertus Magnus; Clarendon Press, Oxford, 309 p.
- Yablokova, S.V.
 1972: New morphologic variety of gold and its origin; *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 205, p. 143-146 (*Am. Geol. Inst. transl.*).
- Yablokova, S.V. and Polkanov, Yu.A.
 1974: Gold in titanium-bearing placers of the Ukraine; *Akad. Nauk. Ukr. RSR, Dopov., Ser. B*, v. 36, no. 8, p. 701-703. (*Chem. Abstr.*, v. 82, 62042s.)
- Yablokova, S.V. and Ryzbov, B.V.
 1972: Role of ancient gold in the feeding of Quaternary placers of the Mari Taiga; *Izv. Vysch. Ucheb. Zaved., Geol. Razaved.*, v. 15, no. 10, p. 60-65. (*Chem. Abstr.*, v. 78, 74712r.) *Also* *Int. Geol. Rev.*, v. 15, no. 10, p. 1182-1185.
- Yakovlev, V.I. and Nyuppenen, T.J.
 1974: Vertical zoning of mineralization at the Nezhdaninsk gold deposit; *Zap. Leningrad. Gorn. Inst.*, v. 64, no. 2, p. 37-42. (*Chem. Abstr.* v. 84, 47310a.)
- Yampol'skaya, M.Ya., Savchenko, L.A. and Vtorina, L.S.
 1975: Extraction of gold from coastal-marine sands; *Tsvet. Met.*, no. 3, p. 88-89. (*Chem. Abstr.*, v. 83, 119011h.)
- Yang, Min-chih, Ni, Chi-Tsung and Tai, Feng-Fu
 1974: Geochemistry of precious metals in skarns and hydrothermal copper deposits from a certain district in China; *Geochimica (Peking)*, no. 3, p. 166-168 (Engl.).
- Yassoglou, N.J. and Nobeli, C.
 1968: The distribution of gold in the silt fraction of some soil profiles and its genetical significance; *Soil Sci. Soc. Am., Proc.*, v. 32, no. 5, p. 705-708.
- Yasuda, M.
 1927: The estimation of gold and silver in sea water; *Chem. Soc. Japan, Bull.*, v. 2, no. 12, p. 321-323.
- Yasyrev, A.P.
 1967: Gold and silver in phosphorites of the Russian Platform; *Tr. Tsent. Nauch. Issled. Gornorazved. Inst.*, no. 32, p. 200-203. (*Chem. Abstr.*, v. 67, 83871s.)
 1969: Gold in Mesozoic nodular phosphate deposits of the Russian Platform, *Acad. Sci. USSR, Dokl., Earth Sci. Sec.*, v. 185, p. 183-186.
 1971: Concretion phosphorites of the Russian Platform as an intermediate collector of gold during placer formation; *Akad. Nauk SSSR, Dokl.*, v. 199, no. 2, p. 452-455. (*Chem. Abstr.*, v. 75, 131658s.)
- Yatsenko, A.S.
 1972: Gold localization in subhorizontal quartz veins imbedded in the granite bodies of the central Vitim highlands; *Mater. Geol. Polez. Iskop. Buryat. ASSR*, v. 15, p. 95-100. (*Chem. Abstr.* v. 82, 127555h.)
- Yazkov, N.M.
 1972: Geology and endogenous mineralization of the Lomamsk gold-bearing region; *Zap. Zabaikal. Filial. Geogr. O-va. SSSR*, v. 86, p. 53-61. (*Chem. Abstr.*, v. 82, 62012g).
- Yeend, W.E.
 1974: Gold-bearing gravels of the Ancestral Yuba River, Sierra Nevada, California; *U.S. Geol. Surv., Prof. Pap.* 772, 44 p.
 1975: Experimental abrasion of detrital gold; *J. Res., U.S. Geol. Surv.*, v. 3, no. 2, p. 203-212.
- Yeleyeva, I.V. and Rusinova, O.V.
 1969: Genesis of quartz-kaolinite rock alteration in the upper levels of the Balei deposits and its importance in prospecting; *Geol. Rud. Mestorozhd.*, v. 11, no. 4, p. 88-95.
- Yen, T.F., ed.
 1975: The role of trace metals in petroleum; *Ann Arbor Science Publ. Inc. Ann Arbor, Mich.*, 221 p.
- Yermakov, N.P. *et al.*
 1965: Research on the nature of mineral-forming solutions with special reference to data from fluid inclusions; Pergamon Press, Oxford, 743 p.
- Youchev, U., Dimitrov, C., Bogdanov, B., Zhelyaskova-Panayotova, M., Dokov, R., Manolov, N. and Rashkov, R.
 1974: Genetic types of ore deposits in Bulgaria; *Int. Assoc. Genesis Ore Deposits (IAGOD)*, Sofia, Bulgaria, 47 p.
- Young, G.A.
 1909: A descriptive sketch of the geology and economic minerals of Canada; *Can. Mines Dep.*, no. 1085, 151 p.
- Young, R.B.
 1917: The banket of the South African Goldfields; Gurney and Jackson, London.
 1931: Discussion on the origin of the gold in the Witwatersrand system, The genesis of the gold in the Rand banket; *Geol. Soc. S. Afr., Trans. (Annex)*, v. 34, p. 1-14.
- Yudalevich, Z.A., Sandomirskii, G.G. and Nikanorov, G.S.
 1973: Gold content in granitic rocks and quartz veins of northern Nurutau and Bakantau; *Uzb. Geol. Zh.*, v. 17, no. 5, p. 17-22. (*Chem. Abstr.*, v. 80, 98500n.)

- Yudin, I.M.
1971: Finely dispersed sulfide mineralization of sedimentary-metamorphic country rocks of the Muruntau deposit and its genesis; *Geol. Rud. Mestorozhd.*, v. 13, no. 2, p. 43-51. (Chem. Abstr., v. 75, 23847u.)
- Yudin, S.S., Yudina, V.M. and Shilin, N.L.
1972: Presence of gold in volcanogenic series of the central part of the Okhotsk volcanogenic belt; *Akad. Nauk SSSR, Dokl.*, v. 207, no. 1, p. 157-160.
- Yugai, T.A.
1967: Genetic groups of Tertiary occurrences of gold in volcanic formations of the lower reaches of the Amur River; *Geol. Rud. Mestorozhd.*, v. 9, no. 3, p. 79-81. (Rev. in Econ. Geol., v. 64, p. 588.)
1970: Gold placer deposits in the area of the Belaya Gora epithermal deposit; *Probl. Geol. Rossyiei, Soveshch.*, (Dokl.) 3rd 1969, V.I. Smirnov, ed., Sev. Vost. Kompleks. Inst., Magadan, U.S.S.R., p. 155-161. (Chem. Abstr., v. 75, 38847t.)
1971: Change in ore gold standards dependent on depth; *Akad. Nauk SSSR, Dokl.*, v. 200, no. 2, p. 446-448. (Chem. Abstr., v. 75, 131642g.)
- Yushmanov, V.V.
1972: Genesis of gold placers in the western part of the Stanovoi Ridge; *Zap. Zabaikal. Filiala Geogr. O-Va. SSSR*, v. 86, p. 104-107. (Chem. Abstr., v. 82, 62014j.)
- Zagoskin, V.A. and Zagorskina, E.I.
1971: Prospecting for auriferous conglomerates by geochemical methods; *Razved. Okhr. Nedr.*, v. 37, no. 5, p. 30-33. (Chem. Abstr., v. 75, 79054a.)
- Zagruzina, I.A.
1970: The age of the gold mineralization of the northeastern part of the Soviet Union; *Geol. Rud. Mestorozhd.*, no. 1, p. 79-82.
1972: Age of gold mineralization in the Northeast; *Int. Geol. Rev.*, v. 14, no. 4, p. 372-374.
- Zagruzina, I.A. and Polazan'ev, V.P.
1975: Paleozoic gold mineralization in the Omolon massif; *Geol. Rud. Mestorozhd.*, v. 17, no. 1, p. 74-80. (Chem. Abstr., v. 83, 118757u.)
- Zaitseva, M.L., Ivanovskii, M.D. and Larina, N.K.
1973: Sorption properties of carbonaceous substances during the cyaniding of gold ores; *Tsvet. Metal.*, no. 1, p. 77-79. (Chem. Abstr., v. 79, 56200p.)
- Zakharov, M.N., Gundobin, G.M. and Glazunova, A.D.
1974: Geochemical study and gold content of intrusions in the Evensk ore node in the northeastern U.S.S.R.; *Ezheg. Inst. Geokhim., Sib. Otd.*, *Akad. Nauk SSSR*, p. 52-55. (Chem. Abstr., v. 84, 47527b.)
- Zakharov, N.N., Gundobin, G.M. and Andruaitis, L.D.
1976: Regularities of gold distribution in Upper Cretaceous and Paleogene igneous rocks of the Turomchinsky imposed depression (Okhotsko-Chutotsky volcanic belt); *Ezheg. Inst. Geokhim., Sib. Otd.*, *Akad. Nauk SSSR*, 1974, p. 80-85.
- Zakharov, Ye. Ye.
1971: Auriferous Mesozoic metasomatites in crystalline base of the central Aldan district; *Int. Geol. Rev.*, v. 13, no. 7, p. 1024-1026.
- Zakharov, Ye. Ye., Novikov, V.P. and Pilipenko, G.N.
1969: The occurrence of gold in Mesozoic metasomatites in the crystalline basement of the central Aldan region; *Geol. Rud. Mestorozhd.*, v. 11, no. 2, p. 85-88. *Also Int. Geol. Rev.*, v. 13, no. 7, 1971, p. 1024-1026.
- Zashchinskii, L.A., Kortunov, V.A., Nomokonova, G.G. and Turysheva, T.I.
1970: Use of potassium radiometric survey during study of ore-controlling factors in the Darasan gold field; *Izv. Tomsk. Politekh. Inst.*, no. 239, p. 436-440. (Chem. Abstr., v. 75, 120042k.)
- Zashchinskii, L.A., Miko, A.D. and Turysheva, T.I.
1969: Use of composite density and boronometric surveys for outlining zones of gold-containing xenoliths; *Geol. Geofiz.*, no. 12, p. 130-133. (Chem. Abstr., v. 72, 69147g.)
- Zaslow, M.
1975: Reading the rocks: the story of the Geological Survey of Canada 1842-1972; Macmillan, Toronto 599 p.
- Zavaritskii, A.N.
1955: Igneous rocks; *Akad. Nauk SSSR, Moscow*, 479 p. (in Russian).
- Zavorotnykh, P.R.
1971: Heavy concentrate and geochemical prospecting of ore deposits by using water flow dispersion haloes; *Vop. Reg. Geol. Metallogen. Zabaikal'ya*, no. 6, p. 82-88. (Chem. Abstr., v. 77, 167143a.)
- Zavorotnykh, I.R.
1972: Possibilities of detecting the sources for gold-bearing placers according to geochemical data; *Zap. Zabaikal. Filiala Geogr. Obschest. SSSR*, no. 69, p. 90-92. (Chem. Abstr., v. 80, 98377c.)
- Zhelnin, S.G.
1973: Characteristics of gold-placer forming formations in the northeast (U.S.S.R.); *Tr. Sev. Vost. Kompleks. Inst., Dal'nevost. Tsent.*, *Akad. Nauk SSSR*, no. 55, p. 239-271. (Chem. Abstr., v. 84, 7599v.)
- Zhelnin, S.G. and Travin, Yu. A.
1976: Comparative features of placer geology in the modern structure of the northeastern U.S.S.R.; 25th Int. Geol. Congr., Sydney, Australia, Abstr., v. 1, p. 229-230.
- Zhelnin, S.G., Valpeter, A.P. and Pruss, Yu. V.
1972: Role of weathering crusts in the formation of placer deposits in the northeast U.S.S.R.; *Tr. Sev. Vost. Kompleks. Inst. Dal'nevost. Tsent. Aka.*, v. 44, p. 101-117. (Chem. Abstr., v. 81, 155816s.)
- Zhelobov, P.P.
1972: The role of conjugations and intersections of deep-seated faults in the location of goldbearing areas of the Urals; in *Tr. Inst. Geol. Geofiz. Geokh. Uslov. Obr. Rud. Zolota Redk. Met.*, no. 149, "Nauka" Publ. House, Siberian Br., Novosibirsk, U.S.S.R., p. 37-43.
- Zhirnov, A.M.
1972: Hypogene colloidal gold in the Kaul'da gold ore deposit (central Asia); *Uzb. Geol. Zh.*, no. 1, p. 93-95.
1973: Metacolloidal gold in the Kaul'dy gold ore deposit (Kuramin Ridge); *Zap. Uzb. Otd. Vses. Mineral. Obshchest.*, no. 26, p. 114-116. (Chem. Abstr., v. 80, 50475f.)
- Zhirnov, A.M. and Badalov, S.T.
1972: New data on the time of deposition of gold in hydrothermal deposits (as illustrated by Almalyk); *Uzb. Geol. Zh.*, no. 6, p. 47-50. (Chem. Abstr., v. 79, 44316t.)
- Zhokhov, G.A., Klimov, V.I., Karimov, Kh.K. and Abbasov, I.M.
1975: Radioactive elements in country rocks and hydrothermally altered rocks of the Kokpatas ore field; *Uzb. Geol. Zh.*, v. 19, p. 32-36. (Chem. Abstr., v. 84, 138643c.)
- Zhukova, R.I.
1974: The relationship of Au, Pb, Zn with organic matter and water-soluble elemental forms in secondary dispersion halos; *Ezheg. Inst. Geokhim., Sib. Otd.*, *Akad. Nauk SSSR*, 1973, L.V. Tauson, ed., p. 247-250.
- Ziauddin, M.
1967: Gold in India, Retrospect and prospect; *Indian Miner.*, v. 21, no. 4, p. 329-338.
1970: Notes on the geochemistry of gold; *Indian Miner.*, v. 24, no. 1, p. 28-41.
- Zlobin, V.A. and Sovetov, Yu. K.
1975: Copper, gold, and radioactive elements in formations of the Taseev series of the Enisei Ridge; *Geol. Geofiz.*, no. 8, p. 147-152. (Chem. Abstr., v. 84, 62823p.)

Zontov, V.N. and Sarapulova, V.N.

- 1974: Element content and zonality of one gold deposit; *Ezheg. Inst. Geokhim., Sib. Otd., Akad. Nauk SSSR*, 1973 L.V. Tauson, ed., p. 206–209.

Zsigmondy, R., and Thiessen, P.A.

- 1925: *Das kolloide Gold*; Akad. Verlagsgesellschaft M.B.H. Leipzig, 226 p.

Zulfugalry, D.I.

- 1960: *Rasprostranenie mikroelementov v kaustobiolitakh, organizmakh, osadochnykh porodakh i plastovykh vodakh*; Akad. Nauk SSSR Inst. Geol. Razrabot. Iskop. Azerbaidzhan. Gos. Univ., Baku, 291 p. 1964; German transl. (Distribution of trace elements in caustobioliths, organisms, sedimentary rock, and ground water; Leipzig, VEB Deut. Verlag Grundstoffindustrie, 291 p.) 1963 (Engl. abstr. in *Bibliography and index of geology exclusive of North America*, v. 28, p. 633).

Zverev, K.S., Levchenko, V.M. and Miller, E.I.

- 1947: Determination of gold in Matzesta waters; *Hydrochemical essays*, v. 13, p. 258–260, Acad. Sci. USSR, Hydrochem. Inst. Novocherkassk.

Zvereva, N.F. and Gavrilenko, B.V.

- 1971: Gold in the rock forming minerals of the Krykkuduk intrusive complex (northern Kazakhstan); *Geokhim.*, no. 1, p. 114–118.

Zvyagintsev, O.E.

- 1941: *Geochemistry of gold*; Izd. Akad. Nauk SSSR, Moscow-Leningrad, 114 p. (in Russian).

- 1959: Review of book by V.M. Kreiter *et al.*, Migration of gold in the oxidized zone of gold-bearing sulphide deposits; *Geochemistry*, no. 6, p. 683–685.

Zvyagintsev, O.E. and Paulsen, I.A.

- 1938: Concerning the action of minerals on gold solutions; *Acad. Sci., USSR, C.R. (Dokl.)*, v. 21, no. 4, p. 176–178.

- 1940: Contribution to the theory of formation of vein gold deposits; *Acad. Sci. USSR, C.R. (Dokl.)*, v. 26, p. 647–651.