

Peer-Reviewed Publications by Paul Spry

Journal Articles and Book Chapters (131), graduate students in italics

1. Roberts, J.A., Groat, L.A., **Spry, P.G.**, and Cempírek, J., 2021. Telluride mineralogy at the Deer Horn Au-Ag-Te-(Bi-Pb-W) deposit, British Columbia: Implications for the generation of tellurides. *Canadian Mineralogist*, in press.
2. **Spry, P.G.**, and Teale, G.S., 2021. A classification of Broken Hill-type deposits: A critical review. *Ore Geology Reviews*, <https://doi.org/10.1016/j.oregeorev.2020.103935>, 26 p.
3. Voudouris, P., Melfos, V., Mavrogonatos, C., Photiades, A., Moraiti, E., Rieck, B., Kolitsch, U., Tarantola, A., Scheffer, C., Morin, D., Vanderhaeghe, O., **Spry, P.G.**, Ross, J., Soukis, K., Vaxevanopoulos, M., Zaimis, S., Magganas, A., Kati, M., and Katerinopoulos, A., 2021. The Lavrion mines: a unique site of geological and mineralogical heritage. *Minerals*, 11, 76. <https://doi.org/10.3390/min11010076>, 22 p.
4. Stergiou, C.L., Melfos, V., Voudouris, P., **Spry, P.G.**, Papadopoulou, L., Chatzipetros, A., Mavrogonatos, C., Filippidis, A., 2021. The geology, geochemistry and origin of the porphyry Cu-Au-(Mo) system at Vathi, Serbo-Macedonian Massif, Greece. *Applied Sciences*, 11, 479, 39 pages.
5. Kelley, K.D., **Spry, P.G.**, McLemore, V.T., Fey, D.L., and Anderson, E.D. 2020. Alkalic-type epithermal gold deposit model. U.S. Geological Survey Scientific Investigations Report, 2010-5070-R, 74 p.
6. *Kadel-Harder, I.M.*, **Spry, P.G.**, Layton-Mathews, D., Voinot, A., von der Handt, McCombs, A.L., 2020. Paragenetic relationships between low and high-grade gold mineralization in the Cripple Creek Au-Te deposit, Colorado: trace element studies of pyrite. *Ore Geology Reviews*, doi.org/10.1016/j.oregeorev.2020.103847, 24 p.
7. *Kadel-Harder, I.M.*, **Spry, P.G.**, McCombs, A.L., and Zhang, H., 2020, Identifying pathfinder elements for gold in bulk-rock geochemical data from the the Cripple Creek Au-Te deposit, Colorado: A statistical approach. *Geochemistry: Exploration, Environment, Analysis*, <http://dx.doi.org/10.1144/geochem2020-048>, 17 p.
8. Mavrogonatos, C., Voudouris, P., Zaccarini, F., Klemme, S., Berndt, J., Tarantola, A., Melfos, V., and **Spry, P.G.**, 2020, Multi-stage introduction of precious and critical metals in pyrite: A case study from the Kponos Hill and pagoni Rachi porphyry/epithermal prospects, NE Greece. *Minerals* 10, 784: [doi:10.3390/min10090784](https://doi.org/10.3390/min10090784).
9. Melfos, V., Voudouris, P., Melfou, M., Chansez, M., Papadopoulou, L., Filippidis, A., **Spry, P.G.**, Schaarschmidt, A., Klemd, R., Haase, K.M., Tarantola, A., Chelle-Misou, C., Mavrogonatos, C., 2020, Mineralogical constraints of the potassic/sodic-calcic hydrothermal alteration at the porphyry Cu-Mo±Re±Au mineralization in Maronia, NE Greece. *Minerals*, v. 10 (182), [doi:10.3390/min10020182](https://doi.org/10.3390/min10020182).
10. Mavrogonatos, C., Voudouris, P., Berndt, J., Klemme, S., Zaccarini, F., **Spry, P.G.**, Melfos, V., Tarantola, A., Keith, M., Klemd, R., and Haase, K., 2019, Trace elements in magnetite from the Pagoni Rachi porphyry prospect, NE Greece: Implications for ore genesis and exploration. *Minerals*, v. 9 (12), 725, [doi: 10.3390/min9120725](https://doi.org/10.3390/min9120725).

11. *Conn, C.D., Spry, P.G., Matthews, D.-L., Voinot, A., and Koenig, A., 2019, The effects of amphibolite facies metamorphism on the trace element composition of pyrite and pyrrhotite in the Cambrian Nairne Pyrite Member, Kanmantoo Group, South Australia. Ore Geology Reviews, v. 115, <https://doi.org/10.1016/j.oregeorev.2019.103128>.*
12. *Fornadel, A.P., Spry, P.G., Jackson, S.E., 2019, Geological controls on the stable tellurium isotope variation in tellurides and native tellurium from epithermal and orogenic gold deposits: application to the Emperor gold-telluride deposit, Fiji. Ore Geology Reviews, v. 113, <https://doi.org/10.1016/j.oregeorev.2019.103076>.*
13. *Voudouris, P., Melfos, V., Mavrogonatos, C., Spry, P.G., Alfieris, D., Periferakis, A., Kolodziejczyk, J., Maggans, A., and Soukis, K., 2019, The geology and mineralogy of the Stypsi porphyry Cu-Mo±Au deposit, Lesvos Island, Aegean Sea, Greece. Ore Geology Reviews, v. 112, <https://doi.org/10.1016/j.oregeorev.2019.103023>.*
14. *Scheffer, C., Tarantola, A., Vanderhaeghe, O., Voudouris, P., Rigaudier, T., Spry, P.G., and Photiades, A., 2019, Magmatic to meteoric fluid reservoirs during exhumation of the Cyclades: the Lavrion Pb-Zn-Fe-Cu-Ag district (Attica, Greece). Economic Geology, v. 114, <https://doi.org/10.5382/econgeo.4670>.*
15. *Frank, K.S., Spry, P.G., Raat, H., Allen, R.L., Jansson, N.F., and Ripa, M., 2019, Variability in the geological, mineralogical, and geochemical characteristics of base metal sulfide deposits in the Stollberg ore field, Bergslagen, Sweden: Economic Geology, v. 114, p. 473-452.*
16. *Li, H.-Z., Liang, J., Zhai, M.-G., Zhang, L.-C., Voudouris, P.C., Yang, Z.-J., Zhou, Y.-Z., He, J.-G., and Spry, P.G., 2019, The mineralogy, mineral chemistry, and origin of the Wuyang banded iron formations, North China Craton. Precambrian Research, v. 328, p. 111-128.*
17. *Voudouris, P., Mavrogonatos, C., Spry, P.G., Melfos, V., Klemd, R., Haase, K., Repstock, A., Djiba, A., Bismayer, U., Tarantola, A., Scheffer, C., Moritz, R., Kouzmanov, K., Alfieris, D., Schaarschmidt, A., Galanopoulos, E., Galanos, E., Kolodziejczyk, J., Papavassiliou, K., Stergiou, C., Melfos, M., 2019, Porphyry and epithermal deposits in Greece: an overview, new discoveries, and mineralogical constraints on their genesis. Ore Geology Reviews, v. 107, p. 654-691.*
18. *Tott, K.A., Spry, P.G., Pollock, M.V., Koenig, A., Both, R.A., and Ogierman, J.A., 2019, Ferromagnesian silicates and oxides as vectors to metamorphosed sediment-hosted Pb-Zn-Ag-(Cu-Au) deposits in the Cambrian Kanmantoo Group, South Australia. Journal of Geochemical Research, v. 200, p. 112-138.*
19. *Forsythe, N.A., Spry, P.G., and Thompson, M.L., 2019, Petrological and mineralogical aspects of epithermal low-sulfidation Au- and porphyry Cu-style mineralization, Navilawa caldera, Fiji. Geosciences, v. 9, (42); doi:10.3390/geosciences9010042.*
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- at Aisymi-Leptokarya, southeastern Rhodope, NE Greece. *Geosciences*, v. 8 (435); doi:10.3390/geosciences8120435.
23. Voudouris, P., Mavrogonatos, C., Rieck, B., Kolitsch, U., Scheffer, C., Tarantola, A., **Spry, P.G.**, Galanos, E., Melfos, V., Zaimis, S., Soukis, K., and Galanopoulos, E., 2018, The gersdorffite-bismuthinite-native gold association and a new skarn-porphyry style mineralization at Kamariza mining district, Lavrion, Greece. *Minerals*, v. 8 (531); doi:10.3390/min1810531.
 24. Mavrogonatos, C., Voudouris, P., **Spry, P.G.**, Melfos, V., Klemme, S., Berndt, J., Bakerm T., Moritz, R., Bissig, T., Monecke, T., Zaccarini, F., Galanopoulos, E., and Kanellopoulos, C., 2018, Mineralogical study of advanced-argillic alteration assemblages from the Konos Hill Mo-Re-Cu-Au porphyry system, NE Greece. *Minerals*, v. 8 (479), 1-18; doi:10.3390/min8110479.
 25. Saintilan, N.J., Creaser, R.A., **Spry, P.G.**, and Hnatysin, D., 2017, Re-Os systematics of löllingite and arsenopyrite in granulite facies garnet rocks: Insights into the thermal evolution of the Broken Hill block during the Early Mesoproterozoic (New South Wales, Australia). *Canadian Mineralogist*, v. 55, p. 29-44.
 26. *Fornadel, A.P.*, **Spry, P.G.**, Schauble, E.A., Hagneghadar, M.A., Jackson, S.E., and Mills, S.J., 2017, Theoretical and measured stable Te isotope fractionation in tellurium-bearing minerals in precious metal hydrothermal ore deposits. *Geochimica et Cosmochimica Acta*, v. 202, p. 215-230.
 27. Kelley, K.D., and **Spry, P.G.**, 2016, Critical metals associated with alkaline-rock related epithermal gold deposits. *Reviews in Economic Geology*, v. 18, p. 195-216.
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 33. Bindi, L., Stanley, C.J., and **Spry, P.G.**, 2015, Cerveleite, Ag₄TeS: solution and description of the crystal structure. *Mineralogy and Petrology*, v. 109, p. 413-419.
 34. Bindi, L., Stanley, C.J., and **Spry, P.G.**, 2015, New structural data reveal benleonardite as a member of the pearceite-polybasite group. *Mineralogical Magazine*, v. 79, p. 1217-1227.
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41. Alfieris, D., Voudouris, P., and **Spry, P.G.**, 2013, High-intermediate sulfidation epithermal Pb-Zn-Cu-Au-Ag-Te mineralization at western Milos island, Greece: Mineralogical and geological constraints on ore formation in a shallow submarine setting. *Ore Geology Reviews*, v. 53, p. 159-180.
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44. Voudouris, P., **Spry, P.G.**, Sakellaris, G.-A., Mavrogonatos, C.G., Bristol, S., Melfos, V., and *Fornadel, A.P.*, 2013, Bismuthinite derivatives, lillianite homologues and bismuth sulfotellurides as indicators for gold mineralization at the Stanos shear-zone-related prospect, Chalkidiki, northern Greece. *Canadian Mineralogist*, v. 51, 119-142.
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