

# Peer-Reviewed Publications by Paul Spry

## Journal Articles and Book Chapters (137), graduate students in italics

1. Cawood, T.-K, Rozendaal, A., and **Spry, P.G.**, 2022. Discussion: Syn-metamorphic sulfidation of the Gamsberg zinc deposit, South Africa. *Mineralogy and Petrology*, in press.
2. **Spry, P.G.**, Mathur, R.D., Teale, G.S., and Godfrey, L.V., 2022, Zinc, sulfur and cadmium isotopes and Zn/Cd ratios as indicators of the origin of the supergiant Broken Hill Pb-Zn-Ag deposit and other Broken Hill-type deposits, New South Wales, Australia. *Geological Magazine*, in press.
3. *Frank, K.S., Spry, P.G., O'Brien, J.J., Koenig, A., Allen, R.L., and Jansson, N.F.*, 2022. Magnetite as a provenance and exploration tool to metamorphosed base metal sulfide deposits in the Stollberg ore field, Bergslagen, Sweden. *Mineralogical Magazine*, 1-24. doi:10.1180/mgm.2022.39 .
4. **Spry, P.G.**, *McFadden, S.*, Teale, G.S., Alers, B., Shallow, J.M., and *Glenn, J.M.*, 2022. Nodular sillimanite rocks as field indicators to metamorphosed massive sulfide deposits. *Ore Geology Reviews*, 141, 104632.
5. Stergiou, C.L., Melfos, V., Voudouris, P., Papadopoulou, L., **Spry, P.G.**, Peytcheva, I., Dimitrova, D., and Stefanova, E., 2022. A fluid inclusion and critical/rare metal study of epithermal quartz-stibnite veins associated with the Gerakario porphyry deposit, northern Greece. *Applied Geoscience*, 12, 909. <https://doi.org/10.3390/app12020909>
6. Voudouris, P., Repstock, A., **Spry, P.G.**, Frenzel, M., Mavrogonatos, C., Keith, M., Tarantola, A., Melfos, V., Tombros, S., Zhai, D., Cook, N.J., Ciobanu, C.L., Schaarschmidt, A., Rieck, B., Kollitsch, U., and Falkenberg, J., 2022. Physicochemical constraints on indium-, tin-, germanium-, gallium-, gold- and tellurium-bearing mineralizations in the Pefka and St Philippos polymetallic vein- and breccia deposits: new insights into the critical element potential of Greece. *Ore Geology Reviews*, 140, 10438
7. 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*, 60, <https://doi.org/10.3749/canmin.1900103>.
8. **Spry, P.G.**, and Teale, G.S., 2021. A classification of Broken Hill-type deposits: A critical review. *Ore Geology Reviews*, 139, 103935.
9. Voudouris, P., Melfos, V., Mavrogonatos, C., Photiades, A., Moraiti, E., Rieck, B., Kollitsch, 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.
10. 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.
11. 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.

12. *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.
13. *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.
14. Mavrogenatos, 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: doi103390/min10090784.
15. 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., Mavrogenatos, 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.
16. Mavrogenatos, 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.
17. *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>.
18. *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>.
19. Voudouris, P., Melfos, V., Mavrogenatos, 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>.
20. 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>.
21. *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.
22. 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.
23. 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., Kołodziejczyk, J., Papavassiliou, K., Stergiou, C., Melfou, 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.
  24. *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.*
  25. *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.*
  26. *Pollock, M.V., **Spry, P.G.**, Tott, K.A., Koenig, A., Both, R.A., and Ogierman, J.A., 2018, The origin of the sediment-hosted Kanmantoo Cu-Au deposit, South Australia: Mineralogical considerations. *Ore Geology Reviews*, v. 95, p. 94-117.*
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  28. *Galanopoulos, E., Voudouris, P., Mavrogonatos, C., **Spry, P.G.**, Hart, C., Melfos, V., Zaccarini, F., and Alfieris, D., 2018, Geology and mineralogy of the newly-discovered porphyry Mo mineralization at Aisymi-Leptokarya, southeastern Rhodope, NE Greece. *Geosciences*, v. 8 (435); doi:10.3390/geosciences8120435.*
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  30. *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.*
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  32. *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.*
  33. *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.*

34. *O'Brien, J.J., Spry, P.G., Teale, G.S., Jackson, S.E., and Rogers, D., 2015, Gahnite composition as a means to fingerprint metamorphosed base metal deposits. Journal of Geochemical Exploration, v. p. 48-61.*
35. *Steadman, J.A., and Spry, P.G., 2015, Metamorphosed Proterozoic Zn-Pb-Ag mineralization in the Foster River area, northern Saskatchewan, Canada. Economic Geology, v. 110, p. 1193-1214.*
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38. *Bristol, S.K., Spry, P.G., Voudouris, P., Melfos, V., Mathur, R.D., Fornadel, A.P., Sakellaris, G.-A. 2015, Geochemical and geochronological constraints on the formation of shear-zone hosted Cu-Au-Bi-Te mineralization in the Stanos area, Chalkidiki, northern Greece. Ore Geology Reviews, v. 66, p. 266-282.*
39. *Bindi, L., Stanley, C.J., and Spry, P.G., 2015, Cerveleite, Ag<sub>4</sub>TeS: solution and description of the crystal structure. Mineralogy and Petrology, v. 109, p. 413-419.*
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47. *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-*

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