

# Kathy Ehrig

## List of Publications by Citations

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89  
papers

1,460  
citations

24  
h-index

32  
g-index

92  
ext. papers

1,724  
ext. citations

3.3  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
89	Trace Element Analysis of Minerals in Magmatic-Hydrothermal Ores by Laser Ablation Inductively-Coupled Plasma Mass Spectrometry: Approaches and Opportunities. <i>Minerals (Basel, Switzerland)</i> , <b>2016</b> , 6, 111	2.4	75
88	The fluorine link between a supergiant ore deposit and a silicic large igneous province. <i>Geology</i> , <b>2011</b> , 39, 1003-1006	5	66
87	Uraninite from the Olympic Dam IOCG-U-Ag deposit: linking textural and compositional variation to temporal evolution. <i>American Mineralogist</i> , <b>2016</b> , 101, 1295-1320	2.9	48
86	Origin of the supergiant Olympic Dam Cu-U-Au-Ag deposit, South Australia: Was a sedimentary basin involved?. <i>Geology</i> , <b>2011</b> , 39, 795-798	5	45
85	Selective leaching of penalty elements from copper concentrates: A review. <i>Minerals Engineering</i> , <b>2016</b> , 98, 110-121	4.9	44
84	Neoproterozoic (ca. 820-830 Ma) mafic dykes at Olympic Dam, South Australia: Links with the Gairdner Large Igneous Province. <i>Precambrian Research</i> , <b>2015</b> , 271, 160-172	3.9	42
83	Textures and U-W-Sn-Mo signatures in hematite from the Olympic Dam Cu-U-Au-Ag deposit, South Australia: Defining the archetype for IOCG deposits. <i>Ore Geology Reviews</i> , <b>2017</b> , 91, 173-195	3.2	40
82	Feldspar evolution in the Roxby Downs Granite, host to Fe-oxide Cu-Au-(U) mineralisation at Olympic Dam, South Australia. <i>Ore Geology Reviews</i> , <b>2017</b> , 80, 838-859	3.2	40
81	Multi-stage enrichment processes for large gold-bearing ore deposits. <i>Ore Geology Reviews</i> , <b>2016</b> , 76, 268-279	3.2	39
80	Matrix effects in Pb/U measurements during LA-ICP-MS analysis of the mineral apatite. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 1206-1215	3.7	39
79	EARLY, DEEP MAGNETITE-FLUORAPATITE MINERALIZATION AT THE OLYMPIC DAM Cu-U-Au-Ag DEPOSIT, SOUTH AUSTRALIA*. <i>Economic Geology</i> , <b>2017</b> , 112, 1531-1542	4.3	37
78	Albitization and redistribution of REE and Y in IOCG systems: Insights from Moonta-Wallaroo, Yorke Peninsula, South Australia. <i>Lithos</i> , <b>2014</b> , 208-209, 178-201	2.9	37
77	Apatite at Olympic Dam, South Australia: A petrogenetic tool. <i>Lithos</i> , <b>2016</b> , 262, 470-485	2.9	37
76	Rare Earth Element Behaviour in Apatite from the Olympic Dam Cu-U-Au-Ag Deposit, South Australia. <i>Minerals (Basel, Switzerland)</i> , <b>2017</b> , 7, 135	2.4	34
75	Olivine-phyric basalt in the Mesoproterozoic Gawler silicic large igneous province, South Australia: Examples at the Olympic Dam Iron Oxide Cu-U-Au-Ag deposit and other localities. <i>Precambrian Research</i> , <b>2016</b> , 281, 185-199	3.9	31
74	Uranium and Sm isotope studies of the supergiant Olympic Dam Cu-U-Au-Ag deposit, South Australia. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 180, 15-32	5.5	31
73	Geology and Mineralogical Zonation of the Olympic Dam Iron Oxide Cu-U-Au-Ag Deposit, South Australia <b>2012</b> ,		30

72	Ore minerals down to the nanoscale: Cu-(Fe)-sulphides from the iron oxide copper gold deposit at Olympic Dam, South Australia. <i>Ore Geology Reviews</i> , <b>2017</b> , 81, 1218-1235	3.2	29
71	Chemical and textural interpretation of late-stage coffinite and brannerite from the Olympic Dam IOCG-Ag-U deposit. <i>Mineralogical Magazine</i> , <b>2017</b> , 81, 1323-1366	1.7	29
70	Matrix-Matched Iron-Oxide Laser Ablation ICP-MS U/Pb Geochronology Using Mixed Solution Standards. <i>Minerals (Basel, Switzerland)</i> , <b>2016</b> , 6, 85	2.4	29
69	Advances and Opportunities in Ore Mineralogy. <i>Minerals (Basel, Switzerland)</i> , <b>2017</b> , 7, 233	2.4	28
68	Silicate-sulfide liquid immiscibility in modern arc basalt (Tolbachik volcano, Kamchatka): Part II. Composition, liquidus assemblage and fractionation of the silicate melt. <i>Chemical Geology</i> , <b>2017</b> , 471, 92-110	4.2	27
67	Precise geochronological constraints on the origin, setting and incorporation of ca. 1.59 Ga surficial facies into the Olympic Dam Breccia Complex, South Australia. <i>Precambrian Research</i> , <b>2018</b> , 315, 162-178 <sup>3.9</sup>	3.9	26
66	The Wirrda Well and Acropolis prospects, Gawler Craton, South Australia: Insights into evolving fluid conditions through apatite chemistry. <i>Journal of Geochemical Exploration</i> , <b>2017</b> , 181, 276-291	3.8	24
65	Focused Ion Beam and Advanced Electron Microscopy for Minerals: Insights and Outlook from Bismuth Sulphosalts. <i>Minerals (Basel, Switzerland)</i> , <b>2016</b> , 6, 112	2.4	23
64	Feldspar mineralogy and rare-earth element (re)mobilization in iron-oxide copper gold systems from South Australia: a nanoscale study. <i>Mineralogical Magazine</i> , <b>2018</b> , 82, S173-S197	1.7	22
63	<sup>210</sup> Pb and <sup>210</sup> Po in Geological and Related Anthropogenic Materials: Implications for Their Mineralogical Distribution in Base Metal Ores. <i>Minerals (Basel, Switzerland)</i> , <b>2018</b> , 8, 211	2.4	22
62	Silicic Magnetite: Si/Fe-Nanoprecipitates and Other Mineral Inclusions in Magnetite from the Olympic Dam Deposit, South Australia. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 311	2.4	20
61	Rare Earth Element Fluorocarbonate Minerals from the Olympic Dam Cu-U-Au-Ag Deposit, South Australia. <i>Minerals (Basel, Switzerland)</i> , <b>2017</b> , 7, 202	2.4	20
60	Short-Range Stacking Disorder in Mixed-Layer Compounds: A HAADF STEM Study of Bastn�ite-Parisite Intergrowths. <i>Minerals (Basel, Switzerland)</i> , <b>2017</b> , 7, 227	2.4	18
59	Linking Olympic Dam and the Cariewerloo Basin: Was a sedimentary basin involved in formation of the world's largest uranium deposit?. <i>Precambrian Research</i> , <b>2017</b> , 300, 168-180	3.9	18
58	Defining IOCG signatures through compositional data analysis: A case study of lithogeochemical zoning from the Olympic Dam deposit, South Australia. <i>Ore Geology Reviews</i> , <b>2019</b> , 105, 86-101	3.2	18
57	Defining early stages of IOCG systems: evidence from iron oxides in the outer shell of the Olympic Dam deposit, South Australia. <i>Mineralium Deposita</i> , <b>2020</b> , 55, 429-452	4.8	18
56	Chemical zoning and lattice distortion in uraninite from Olympic Dam, South Australia. <i>American Mineralogist</i> , <b>2016</b> , 101, 2351-2354	2.9	17
55	Characteristics, origin and significance of Mesoproterozoic bedded clastic facies at the Olympic Dam Cu-U-Au-Ag deposit, South Australia. <i>Precambrian Research</i> , <b>2016</b> , 276, 85-100	3.9	17

54	Petrography and trace element signatures of iron-oxides in deposits from the Middleback Ranges, South Australia: From banded iron formation to ore. <i>Ore Geology Reviews</i> , <b>2018</b> , 93, 337-360	3.2	15
53	Numerical Modeling of REE Fractionation Patterns in Fluorapatite from the Olympic Dam Deposit (South Australia). <i>Minerals (Basel, Switzerland)</i> , <b>2018</b> , 8, 342	2.4	15
52	Hematite geochemistry and geochronology resolve genetic and temporal links among iron-oxide copper gold systems, Olympic Dam district, South Australia. <i>Precambrian Research</i> , <b>2019</b> , 335, 105480	3.9	13
51	Detection of Trace Elements/Isotopes in Olympic Dam Copper Concentrates by nanoSIMS. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 336	2.4	13
50	Uptake of trace elements by baryte during copper ore processing: A case study from Olympic Dam, South Australia. <i>Minerals Engineering</i> , <b>2019</b> , 135, 83-94	4.9	13
49	Discrimination and Variance Structure of Trace Element Signatures in Fe-Oxides: A Case Study of BIF-Mineralisation from the Middleback Ranges, South Australia. <i>Mathematical Geosciences</i> , <b>2018</b> , 50, 381-415	2.5	13
48	Replacement of Uraninite By Bornite Via Coupled Dissolution-Reprecipitation: Evidence From Texture and Microstructure. <i>Canadian Mineralogist</i> , <b>2016</b> , 54, 1369-1383	0.7	13
47	Postmagmatic magnetite-apatite assemblage in mafic intrusions: a case study of dolerite at Olympic Dam, South Australia. <i>Contributions To Mineralogy and Petrology</i> , <b>2016</b> , 171, 1	3.5	13
46	OPENING THE MAGMATIC-HYDROTHERMAL WINDOW: HIGH-PRECISION U-Pb GEOCHRONOLOGY OF THE MESOPROTEROZOIC OLYMPIC DAM Cu-U-Au-Ag DEPOSIT, SOUTH AUSTRALIA. <i>Economic Geology</i> , <b>2020</b> , 115, 1855-1870	4.3	12
45	Rare earth element geochemistry of feldspars: examples from Fe-oxide Cu-Au systems in the Olympic Cu-Au Province, South Australia. <i>Mineralogy and Petrology</i> , <b>2018</b> , 112, 145-172	1.6	11
44	Mineralization-alteration footprints in the Olympic Dam IOCG district, South Australia: The Acropolis prospect. <i>Journal of Geochemical Exploration</i> , <b>2019</b> , 205, 106333	3.8	11
43	Zircon at the Nanoscale Records Metasomatic Processes Leading to Large Magmatic-Hydrothermal Ore Systems. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 364	2.4	11
42	Radionuclide distributions in Olympic Dam copper concentrates: The significance of minor hosts, incorporation mechanisms, and the role of mineral surfaces. <i>Minerals Engineering</i> , <b>2020</b> , 148, 106176	4.9	11
41	REE-, Sr-, Ca-aluminum-phosphate-sulfate minerals of the alunite supergroup and their role as hosts for radionuclides. <i>American Mineralogist</i> , <b>2019</b> , 104, 1806-1819	2.9	11
40	Rare Earth Element Phosphate Minerals from the Olympic Dam Cu-U-Au-Ag Deposit, South Australia: Recognizing Temporal-Spatial Controls On Ree Mineralogy in an Evolved IOCG System. <i>Canadian Mineralogist</i> , <b>2019</b> , 57, 3-24	0.7	10
39	Crystal chemistry of titanite from the Roxby Downs Granite, South Australia: insights into petrogenesis, subsolidus evolution and hydrothermal alteration. <i>Contributions To Mineralogy and Petrology</i> , <b>2019</b> , 174, 1	3.5	10
38	Multivariate Statistical Analysis of Trace Elements in Pyrite: Prediction, Bias and Artefacts in Defining Mineral Signatures. <i>Minerals (Basel, Switzerland)</i> , <b>2020</b> , 10, 61	2.4	10
37	Iron-oxides constrain BIF evolution in terranes with protracted geological histories: The Iron Count prospect, Middleback Ranges, South Australia. <i>Lithos</i> , <b>2019</b> , 324-325, 20-38	2.9	10

36	Tectonothermal events in the Olympic IOCG Province constrained by apatite and REE-phosphate geochronology. <i>Australian Journal of Earth Sciences</i> , <b>2018</b> , 65, 643-659	1.4	10
35	Radionuclide-bearing minerals in Olympic Dam copper concentrates. <i>Hydrometallurgy</i> , <b>2019</b> , 190, 105153	4	9
34	In situ spatial distribution mapping of radionuclides in minerals by nanoSIMS. <i>Geochemistry: Exploration, Environment, Analysis</i> , <b>2019</b> , 19, 245-254	1.8	9
33	Rapid, competitive radium uptake in strontium, barium, and lead sulfates during sulfuric acid leaching. <i>Applied Geochemistry</i> , <b>2020</b> , 115, 104549	3.5	8
32	Understanding the mobility and retention of uranium and its daughter products. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 410, 124553	12.8	7
31	Mineralogy of Zirconium in Iron-Oxides: A Micron- to Nanoscale Study of Hematite Ore from Peculiar Knob, South Australia. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 244	2.4	6
30	Copper-Arsenic Nanoparticles in Hematite: Fingerprinting Fluid-Mineral Interaction. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 388	2.4	6
29	Effects of hydrothermal alteration on mafic lithologies at the Olympic Dam Cu-U-Au-Ag deposit. <i>Precambrian Research</i> , <b>2017</b> , 292, 305-322	3.9	5
28	Petrographic and geochronological constraints on the granitic basement to the Middleback Ranges, South Australia. <i>Precambrian Research</i> , <b>2019</b> , 324, 170-193	3.9	5
27	Geology of the Acropolis prospect, South Australia, constrained by high-precision CA-TIMS ages. <i>Australian Journal of Earth Sciences</i> , <b>2020</b> , 67, 699-716	1.4	5
26	The dynamic uptake of lead and its radionuclides by natural and synthetic aluminium-phosphate-sulfates. <i>Minerals Engineering</i> , <b>2021</b> , 160, 106659	4.9	5
25	~1760 Ma magnetite-bearing protoliths in the Olympic Dam deposit, South Australia: Implications for ore genesis and regional metallogeny. <i>Ore Geology Reviews</i> , <b>2020</b> , 118, 103337	3.2	4
24	Selective radionuclide co-sorption onto natural minerals in environmental and anthropogenic conditions. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 409, 124989	12.8	4
23	Staged formation of the supergiant Olympic Dam uranium deposit, Australia. <i>Geology</i> ,	5	4
22	Synthesis of U-Pb doped hematite using a hydrated ferric oxide approach. <i>Journal of Crystal Growth</i> , <b>2019</b> , 513, 48-57	1.6	3
21	Trace-element remobilisation from W <sub>80</sub> Pb <sub>20</sub> zoned hematite: Nanoscale insights into a mineral geochronometer behaviour during interaction with fluids. <i>Mineralogical Magazine</i> , <b>2020</b> , 84, 502-516	1.7	3
20	Carbonates at the supergiant Olympic Dam Cu-U-Au-Ag deposit, South Australia. Part 1: Distribution, textures, associations and stable isotope (C, O) signatures. <i>Ore Geology Reviews</i> , <b>2020</b> , 126, 103775	3.2	3
19	The Mixed-Layer Structures of Ikunolite, Laitakarite, Josite-B and Josite-A. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 920	2.4	3

18	Intermobility of barium, strontium, and lead in chloride and sulfate leach solutions. <i>Geochemical Transactions</i> , <b>2019</b> , 20, 4	3	2
17	Carbonates at the supergiant Olypmic Dam Cu-U-Au-Ag deposit, South Australia part 2: Sm-Nd, Lu-Hf and Sr-Pb isotope constraints on the chronology of carbonate deposition. <i>Ore Geology Reviews</i> , <b>2020</b> , 140, 103745	3.2	2
16	The fluorine link between a supergiant ore deposit and a silicic large igneous province: REPLY. <i>Geology</i> , <b>2012</b> , 40, e276-e276	5	2
15	Insights into magma histories through silicate-oxide crystal clusters: Linking the Hiltaba Suite intrusive rocks to the Gawler Range Volcanics, Gawler Craton, South Australia. <i>Precambrian Research</i> , <b>2019</b> , 321, 103-122	3.9	2
14	A Synthetic Haematite Reference Material for LA-ICP-MS U-Pb Geochronology and Application to Iron Oxide-Cu-Au Systems. <i>Geostandards and Geoanalytical Research</i> , <b>2021</b> , 45, 143-159	3.6	2
13	Bi <sub>8</sub> Te <sub>3</sub> , the 11-Atom Layer Member of the Tetradymite Homologous Series. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 980	2.4	2
12	A Mineralisation Age for the Sediment-Hosted Blackbush Uranium Prospect, North-Eastern Eyre Peninsula, South Australia. <i>Minerals (Basel, Switzerland)</i> , <b>2020</b> , 10, 191	2.4	1
11	From magma to mush to lava: Crystal history of voluminous felsic lavas in the Gawler Range Volcanics, South Australia. <i>Lithos</i> , <b>2019</b> , 346-347, 105148	2.9	1
10	Episodic mafic magmatism in the Eyre Peninsula: Defining syn- and post-depositional BIF environments for iron deposits in the Middleback Ranges, South Australia. <i>Precambrian Research</i> , <b>2020</b> , 337, 105535	3.9	1
9	Localised solution environments drive radionuclide fractionation in uraninite. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 412, 125192	12.8	1
8	Associations between zircon and Fe <sup>III</sup> oxides in Hiltaba event magmatic rocks, South Australia: atomic- or pluton-scale processes?. <i>Australian Journal of Earth Sciences</i> , <b>2020</b> , 67, 201-220	1.4	1
7	Nanomineralogy of hydrothermal magnetite from Acropolis, South Australia: Genetic implications for iron-oxide copper gold mineralization. <i>American Mineralogist</i> , <b>2021</b> , 106, 1273-1293	2.9	1
6	Nanoscale intergrowths in the bastnaesite-synchysite series record transition toward thermodynamic equilibrium. <i>MRS Bulletin</i> , 1	3.2	1
5	Pb-isotope ratios and the petrogenesis of the Tunkillia Suite, Gawler Craton. <i>Australian Journal of Earth Sciences</i> , 1-21	1.4	0
4	Skarn-style alteration in Proterozoic metasedimentary protoliths hosting IOCG mineralization: the Island Dam Prospect, South Australia. <i>Mineralium Deposita</i> , 1	4.8	0
3	Metallic-Pb nanospheres in zircon from the Challenger Au deposit, South Australia: probing metamorphic and ore formation histories. <i>Mineralogical Magazine</i> , 1-24	1.7	
2	Micron- to nanoscale characterisation and U-Pb geochronology of zircon from granites of the Sapphire Pluton, South Australia. <i>Precambrian Research</i> , <b>2020</b> , 350, 105924	3.9	
1	Development and Application of Synthetic Hematite Reference Material for U-Pb Geochronology. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2742-2745	0.5	

