

# Sarah A Gleeson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4940028/publications.pdf>

Version: 2024-02-01

80  
papers

2,026  
citations

218677

26  
h-index

302126

39  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1639  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic and abiogenic low-Mg calcite (bLMC and aLMC): Evaluation of seawater-REE composition, water masses and carbonate diagenesis. <i>Chemical Geology</i> , 2011, 280, 180-190.	3.3	129
2	The Mineralogy and Geochemistry of the Cerro Matoso S.A. Ni Laterite Deposit, Montelibano, Colombia. <i>Economic Geology</i> , 2004, 99, 1197-1213.	3.8	84
3	Open system sulphate reduction in a diagenetic environment – Isotopic analysis of barite ( $\delta^{34}\text{S}$ and $\delta^{18}\text{O}$ ) and pyrite ( $\delta^{34}\text{S}$ ) from the Tom and Jason Late Devonian Zn–Pb–Ba deposits, Selwyn Basin, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 180, 146-163.	3.9	77
4	Zebra dolomitization as a result of focused fluid flow in the Rocky Mountains Fold and Thrust Belt, Canada. <i>Sedimentology</i> , 2005, 52, 1067-1095.	3.1	70
5	Coupled partitioning of Au and As into pyrite controls formation of giant Au deposits. <i>Science Advances</i> , 2019, 5, eaav5891.	10.3	64
6	The origin and evolution of base metal mineralising brines and hydrothermal fluids, South Cornwall, UK. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2067-2079.	3.9	55
7	Trace Element Geochemistry of Magnetite and Its Relationship to Cu-Bi-Co-Au-Ag-U-W Mineralization in the Great Bear Magmatic Zone, NWT, Canada. <i>Economic Geology</i> , 2014, 109, 1901-1928.	3.8	54
8	Infiltration of basinal fluids into high-grade basement, South Norway: sources and behaviour of waters and brines. <i>Geofluids</i> , 2003, 3, 33-48.	0.7	53
9	Intracratonic crustal seawater circulation and the genesis of subseafloor zinc-lead mineralization in the Irish orefield. <i>Geology</i> , 2005, 33, 805.	4.4	50
10	The source of halogens in geothermal fluids from the Taupo Volcanic Zone, North Island, New Zealand. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 265-283.	3.9	49
11	The sources and evolution of mineralising fluids in iron oxide–copper–gold systems, Norrbotten, Sweden: Constraints from Br/Cl ratios and stable Cl isotopes of fluid inclusion leachates. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5658-5672.	3.9	48
12	Hydrothermal fluid evolution and metal transport in the Kiruna District, Sweden: Contrasting metal behaviour in aqueous and aqueous–carbonic brines. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 102, 89-112.	3.9	48
13	Origin of retrograde fluids in metamorphic rocks. <i>Journal of Geochemical Exploration</i> , 2000, 69-70, 281-285.	3.2	45
14	Re-Os dating of pyrite confirms an early diagenetic onset and extended duration of mineralization in the Irish Zn-Pb ore field. <i>Geology</i> , 2015, 43, 143-146.	4.4	44
15	Cl/Br ratios and stable chlorine isotope analysis of magmatic–hydrothermal fluid inclusions from Butte, Montana and Bingham Canyon, Utah. <i>Mineralium Deposita</i> , 2009, 44, 837-848.	4.1	39
16	Mineralogical characterization of the Nkamouna Co–Mn laterite ore, southeast Cameroon. <i>Mineralium Deposita</i> , 2013, 48, 155-171.	4.1	39
17	Partitioning of arsenic between hydrothermal fluid and pyrite during experimental siderite replacement. <i>Chemical Geology</i> , 2018, 500, 136-147.	3.3	39
18	Using zircon trace element composition to assess porphyry copper potential of the Guichon Creek batholith and Highland Valley Copper deposit, south-central British Columbia. <i>Mineralium Deposita</i> , 2021, 56, 215-238.	4.1	38

#	ARTICLE	IF	CITATIONS
19	Gold Refining by Bismuth Melts in the Iron Oxide-Dominated NICO Au-Co-Bi (CuW) Deposit, NWT, Canada. <i>Economic Geology</i> , 2015, 110, 291-314.	3.8	36
20	The thermal and chemical evolution of hydrothermal vent fluids in shale hosted massive sulphide (SHMS) systems from the MacMillan Pass district (Yukon, Canada). <i>Geochimica Et Cosmochimica Acta</i> , 2016, 193, 251-273.	3.9	32
21	New U-Pb constraints on the age of the Little Dal Basalts and Gunbarrel-related volcanism in Rodinia. <i>Precambrian Research</i> , 2017, 296, 168-180.	2.7	31
22	Post-magmatic hydrothermal circulation and the origin of base metal mineralization, Cornwall, UK. <i>Journal of the Geological Society</i> , 2000, 157, 589-600.	2.1	30
23	A Paleoproterozoic Andean-type iron oxide copper-gold environment, the Great Bear magmatic zone, Northwest Canada. <i>Ore Geology Reviews</i> , 2017, 81, 123-139.	2.7	29
24	On the occurrence and wider implications of anomalously low $\delta D$ fluids in quartz veins, South Cornwall, England. <i>Chemical Geology</i> , 1999, 160, 161-173.	3.3	28
25	Fluids associated with hydrothermal dolomitization in St. George Group, western Newfoundland, Canada. <i>Geofluids</i> , 2010, 10, 422-437.	0.7	28
26	Fluid inclusion constraints on the origin of the brines responsible for Pb-Zn mineralization at Pine Point and coarse non-saddle and saddle dolomite formation in southern Northwest Territories. <i>Geofluids</i> , 2007, 7, 51-68.	0.7	27
27	Origin of the Breno and Esino dolomites in the western Southern Alps (Italy): Implications for a volcanic influence. <i>Marine and Petroleum Geology</i> , 2016, 69, 38-52.	3.3	27
28	Petroleum infiltration of high-grade basement, South Norway: Pressure-Temperature-time-composition (P-T-t-X) constraints. <i>Geofluids</i> , 2002, 2, 41-53.	0.7	26
29	Garnet U-Pb dating of the Yinan Au-Cu skarn deposit, Luxi District, North China Craton: Implications for district-wide coeval Au-Cu and Fe skarn mineralization. <i>Ore Geology Reviews</i> , 2020, 118, 103310.	2.7	26
30	A basement-interacted fluid in the N81 deposit, Pine Point Pb-Zn District, Canada: Sr isotopic analyses of single dolomite crystals. <i>Mineralium Deposita</i> , 2012, 47, 749-754.	4.1	25
31	The origin of Late Devonian (Frasnian) stratiform and stratabound mudstone-hosted barite in the Selwyn Basin, Northwest Territories, Canada. <i>Marine and Petroleum Geology</i> , 2017, 85, 1-15.	3.3	24
32	A NEW SUBSEAFLOOR REPLACEMENT MODEL FOR THE MACMILLAN PASS CLASTIC-DOMINANT Zn-Pb ± Ba DEPOSITS (YUKON, CANADA). <i>Economic Geology</i> , 2020, 115, 953-959.	3.8	24
33	Thermochemical sulphate reduction in the Upper Devonian Cairn Formation of the Fairholme carbonate complex (South-West Alberta, Canadian Rockies): evidence from fluid inclusions and isotopic data. <i>Sedimentology</i> , 2009, 56, 439-460.	3.1	23
34	Timing and thermochemical constraints on multi-element mineralisation at the Nori/RA Cu-Mo-U prospect, Great Bear magmatic zone, Northwest Territories, Canada. <i>Mineralium Deposita</i> , 2010, 45, 549-566.	4.1	23
35	The origin of sulfate mineralization and the nature of the BaSO <sub>4</sub> -SrSO <sub>4</sub> solid-solution series in the Ain Allega and El Aguiba ore deposits, Northern Tunisia. <i>Ore Geology Reviews</i> , 2012, 48, 165-179.	2.7	23
36	Determination of the origin of salinity in granite-related fluids: evidence from chlorine isotopes in fluid inclusions. <i>Journal of Geochemical Exploration</i> , 2000, 69-70, 309-312.	3.2	22

#	ARTICLE	IF	CITATIONS
37	Evidence of multiple halogen sources in scapolites from iron oxide-copper-gold (IOCG) deposits and regional Na Cl metasomatic alteration, Norrbotten County, Sweden. <i>Chemical Geology</i> , 2017, 451, 90-103.	3.3	22
38	From exploration to remediation: A microbial perspective for innovation in mining. <i>Earth-Science Reviews</i> , 2021, 216, 103563.	9.1	22
39	Regional Fluid Flow and Gold Mineralization in the Dalradian of the Sperrin Mountains, Northern Ireland. <i>Economic Geology</i> , 2000, 95, 1389-1416.	3.8	22
40	The high-temperature behavior of defect hydrogen species in quartz: Implications for hydrogen isotope studies. <i>American Mineralogist</i> , 2003, 88, 262-270.	1.9	21
41	Massive sulfide Zn deposits in the Proterozoic did not require euxinia. <i>Geochemical Perspectives Letters</i> , 0, , 19-24.	5.0	20
42	Links between seawater paleoredox and the formation of sediment-hosted massive sulphide (SHMS) deposits – Fe speciation and Mo isotope constraints from Late Devonian mudstones. <i>Chemical Geology</i> , 2018, 490, 45-60.	3.3	19
43	Genesis of the Paleoproterozoic NICO iron oxide-cobalt-gold-bismuth deposit, Northwest Territories, Canada: Evidence from isotope geochemistry and fluid inclusions. <i>Precambrian Research</i> , 2015, 268, 168-193.	2.7	18
44	Spatio-temporal evolution of ocean redox and nitrogen cycling in the early Cambrian Yangtze ocean. <i>Chemical Geology</i> , 2020, 554, 119803.	3.3	18
45	Geochemical constraints on the origin of the Kicking Horse and Monarch Mississippi Valley-type lead-zinc ore deposits, southeast British Columbia, Canada. <i>Mineralium Deposita</i> , 2007, 42, 913-935.	4.1	17
46	Petrography, Mineralogy, and Geochemistry of the Nkamouna Serpentinite: Implications for the Formation of the Cobalt-Manganese Laterite Deposit, Southeast Cameroon. <i>Economic Geology</i> , 2012, 107, 25-41.	3.8	17
47	The Importance of Siliceous Radiolarian-Bearing Mudstones in the Formation of Sediment-Hosted Zn-Pb ± Ba Mineralization in the Selwyn Basin, Yukon, Canada. <i>Economic Geology</i> , 2015, 110, 2139-2146.	3.8	16
48	From basin to basement: the movement of surface fluids into the crust. <i>Journal of Geochemical Exploration</i> , 2000, 69-70, 527-531.	3.2	15
49	Sulfur Isotope Constraints on the Conditions of Pyrite Formation in the Paleoproterozoic Urquhart Shale Formation and George Fisher Zn-Pb-Ag Deposit, Northern Australia. <i>Economic Geology</i> , 2020, 115, 1003-1020.	3.8	15
50	Regional Fluid Flow and Gold Mineralization in the Dalradian of the Sperrin Mountains, Northern Ireland. <i>Economic Geology</i> , 2000, 95, 1389-1416.	3.8	14
51	The carbonate-hosted willemite prospects of the Zambezi Metamorphic Belt (Zambia). <i>Mineralium Deposita</i> , 2011, 46, 707-729.	4.1	14
52	Characterization and dispersal of indicator minerals associated with the Pine Point Mississippi Valley-type (MVT) district, Northwest Territories, Canada. <i>Canadian Journal of Earth Sciences</i> , 2015, 52, 776-794.	1.3	14
53	Differentiating between hydrothermal and diagenetic carbonate using rare earth element and yttrium (REE+Y) geochemistry: a case study from the Paleoproterozoic George Fisher massive sulfide Zn deposit, Mount Isa, Australia. <i>Mineralium Deposita</i> , 2022, 57, 187-206.	4.1	14
54	Micro-Fourier Transform Infrared (FT-IR) and $\delta^{18}O$ value investigation of hydrothermal vein quartz: Interpretation of fluid inclusion $\delta^{18}O$ values in hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4595-4606.	3.9	13

#	ARTICLE	IF	CITATIONS
55	Variability of outcrop magnetic susceptibility and its relationship to the porphyry Cu centers in the Highland Valley Copper district. <i>Ore Geology Reviews</i> , 2019, 107, 201-217.	2.7	13
56	RECOGNIZING PORPHYRY COPPER POTENTIAL FROM TILL ZIRCON COMPOSITION: A CASE STUDY FROM THE HIGHLAND VALLEY PORPHYRY DISTRICT, SOUTH-CENTRAL BRITISH COLUMBIA. <i>Economic Geology</i> , 2021, 116, 1035-1045.	3.8	13
57	Development of secondary porosity in the Fairholme carbonate complex (southwest Alberta, Canada). <i>Journal of Geochemical Exploration</i> , 2006, 89, 394-397.	3.2	12
58	More than a trace of oxygen: Ichnological constraints on the formation of the giant Zn-Pb-Ag ± Ba deposits, Red Dog district, Alaska. <i>Geology</i> , 2015, 43, 867-870.	4.4	12
59	Mineralogical and Isotopic Characteristics of Sodic-Calcic Alteration in the Highland Valley Copper District, British Columbia, Canada: Implications for Fluid Sources in Porphyry Cu Systems. <i>Economic Geology</i> , 2020, 115, 841-870.	3.8	12
60	Three-Dimensional and Microstructural Fingerprinting of Gold Nanoparticles at Fluid-Mineral Interfaces. <i>American Mineralogist</i> , 2021, 106, 97-104.	1.9	12
61	Surface-derived fluids in basement rocks: inferences from palaeo-hydrothermal systems. <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 61-65.	3.2	11
62	The Mineralogical Evolution of the Clastic Dominant-Type Zn-Pb ± Ba Deposits at Macmillan Pass (Yukon, Canada) – Tracing Subseafloor Barite Replacement in the Layered Mineralization. <i>Economic Geology</i> , 2020, 115, 961-979.	3.8	11
63	The Teena Zn-Pb Deposit (McArthur Basin, Australia). Part II: Carbonate Replacement Sulfide Mineralization During Burial Diagenesis – Implications for Mineral Exploration. <i>Economic Geology</i> , 2021, 116, 1769-1801.	3.8	11
64	The Teena Zn-Pb Deposit (McArthur Basin, Australia). Part I: Syndiagenetic Base Metal Sulfide Mineralization Related to Dynamic Subbasin Evolution. <i>Economic Geology</i> , 2021, 116, 1743-1768.	3.8	10
65	Improved detection limits for transient signal analysis of fluid inclusions by inductively coupled plasma atomic emission spectrometry using correlated background correction. <i>Analyst</i> , The, 1995, 120, 1421.	3.5	9
66	Linking Mineralogy to Litho geochemistry in the Highland Valley Copper District: Implications for Porphyry Copper Footprints. <i>Economic Geology</i> , 2020, 115, 871-901.	3.8	9
67	The Formation of Highly Positive $\delta^{34}\text{S}$ Values in Late Devonian Mudstones: Microscale Analysis of Pyrite ( $\delta^{34}\text{S}$ ) and Barite ( $\delta^{34}\text{S}$ , $\delta^{18}\text{O}$ ) in the Canol Formation (Selwyn Basin, Canada). <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	9
68	Metallogenic Evolution of the Mackenzie and Eastern Selwyn Mountains of Canada – Northern Cordillera, Northwest Territories: A Compilation and Review. <i>Geoscience Canada</i> , 2013, 40, .	0.8	8
69	The Tiger Deposit: A Carbonate-Hosted, Magmatic-Hydrothermal Gold Deposit, Central Yukon, Canada. <i>Economic Geology</i> , 2016, 111, 421-446.	3.8	8
70	In Situ Monazite Dating of Sediment-Hosted Stratiform Copper Mineralization in the Redstone Copper Belt, Northwest Territories, Canada: Cupriferous Fluid Flow Late in the Evolution of a Neoproterozoic Sedimentary Basin. <i>Economic Geology</i> , 2017, 112, 1773-1806.	3.8	8
71	The mineralogical and litho geochemical footprint of the George Fisher Zn-Pb-Ag massive sulphide deposit in the Proterozoic Urquhart Shale Formation, Queensland, Australia. <i>Chemical Geology</i> , 2021, 560, 119975.	3.3	8
72	Laser ablation split stream for <i>in situ</i> sulfur isotope and elemental analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1118-1124.	3.0	8

#	ARTICLE	IF	CITATIONS
73	Origin of sulfur and crustal recycling of copper in polymetallic (Cu-Au-Co-Bi-U±Ag) iron-oxide-dominated systems of the Great Bear Magmatic Zone, NWT, Canada. <i>Mineralium Deposita</i> , 2018, 53, 353-376.	4.1	5
74	Diagenetic Controls on the Formation of the Anarraaq Clastic-Dominated Zn-Pb-Ag Deposit, Red Dog District, Alaska. <i>Economic Geology</i> , 2021, 116, 1803-1824.	3.8	5
75	Microthermometry and noble gas isotope analysis of magmatic fluid inclusions in the Kerman porphyry Cu deposits, Iran: constraints on the source of ore-forming fluids. <i>Mineralium Deposita</i> , 2022, 57, 155-185.	4.1	4
76	Hydrodynamic Constraints on Ore Formation by Basin-Scale Fluid Flow at Continental Margins: Modelling Zn Metallogenesis in the Devonian Selwyn Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009453.	2.5	3
77	Using whole rock and in situ pyrite chemistry to evaluate authigenic and hydrothermal controls on trace element variability in a Zn mineralized Proterozoic subbasin. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 318, 366-387.	3.9	3
78	The geology of the carbonate-hosted Blende Ag-Pb-Zn deposit, Wernecke Mountains, Yukon, Canada. <i>Mineralium Deposita</i> , 2015, 50, 83-104.	4.1	2
79	Constraints on the source and evolution of mineralising fluids in the Norrbotten Fe oxide-Cu-Au province, Sweden. , 2005, , 825-828.		0
80	Acceptance of the SEG Waldemar Lindgren Award for 2007. <i>Economic Geology</i> , 2008, 103, 1386-1387.	3.8	0