

Sarah E Gilbert

List of Publications by Year in descending order

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59
papers

2,875
citations

201674

27
h-index

168389

53
g-index

60
all docs

60
docs citations

60
times ranked

1705
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of a hydrothermal ore-forming system recorded by sulfide mineral chemistry: a case study from the Plaka Pb–Zn–Ag Deposit, Lavrion, Greece. <i>Mineralium Deposita</i> , 2022, 57, 417-438.	4.1	38
2	Unraveling the histories of Proterozoic shales through <i>in situ</i> Rb-Sr dating and trace element laser ablation analysis. <i>Geology</i> , 2022, 50, 66-70.	4.4	13
3	<i>In situ</i> laser ablation Lu–Hf geochronology of garnet across the Western Gneiss Region: campaign-style dating of metamorphism. <i>Journal of the Geological Society</i> , 2022, 179, .	2.1	15
4	Constraints from in-situ Rb-Sr dating on the timing of tectono-thermal events in the Umm Farwah shear zone and associated Cu-Au mineralisation in the Southern Arabian Shield, Saudi Arabia. <i>Journal of Asian Earth Sciences</i> , 2022, 224, 105037.	2.3	10
5	Detrital apatite ^{147}Lu – ^{176}Hf and ^{238}U – ^{206}Pb geochronology applied to the southwestern Siberian margin. <i>Terra Nova</i> , 2022, 34, 201-209.	2.1	9
6	Early Evolution of the Adelaide Superbasin. <i>Geosciences (Switzerland)</i> , 2022, 12, 154.	2.2	5
7	In situ Lu–Hf phosphate geochronology: Progress towards a new tool for space exploration. <i>Geoscience Frontiers</i> , 2022, 13, 101375.	8.4	2
8	Textural and geochemical analysis of celestine and sulfides constrain Sr-(Pb-Zn) mineralization in the Shizilishan deposit, eastern China. <i>Ore Geology Reviews</i> , 2022, 144, 104814.	2.7	5
9	Laser-ablation Lu-Hf dating reveals Laurentian garnet in subducted rocks from southern Australia. <i>Geology</i> , 2022, 50, 837-842.	4.4	10
10	In situ Lu–Hf geochronology of calcite. <i>Geochronology</i> , 2022, 4, 353-372.	2.5	13
11	Indium distribution in sphalerite from sulfide–oxide–silicate skarn assemblages: a case study of the Dulong Zn–Sn–In deposit, Southwest China. <i>Mineralium Deposita</i> , 2021, 56, 307-324.	4.1	53
12	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> , 2021, 45, 143-159.	3.1	3
13	Assessment of elemental fractionation and matrix effects during <i>in situ</i> Rb–Sr dating of phlogopite by LA-ICP-MS/MS: implications for the accuracy and precision of mineral ages. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 322-344.	3.0	37
14	Effect of Selenium and Iodine on Oxidative Stress in the First Trimester Human Placenta Explants. <i>Nutrients</i> , 2021, 13, 800.	4.1	9
15	Development and Application of Synthetic Hematite Reference Material for U-Pb Geochronology. <i>Microscopy and Microanalysis</i> , 2021, 27, 2742-2745.	0.4	0
16	Geochemistry of Sphalerite from the Permian Volcanic-Hosted Massive Sulphide (VHMS) Deposits in the Tasik Chini Area, Peninsular Malaysia: Constraints for Ore Genesis. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 728.	2.0	3
17	In-situ Lu Hf geochronology of garnet, apatite and xenotime by LA ICP MS/MS. <i>Chemical Geology</i> , 2021, 577, 120299.	3.3	62
18	A simple and rapid ICP-MS/MS determination of sulfur isotope ratios ($^{34}\text{S}/^{32}\text{S}$) in complex natural waters: A new tool for tracing seawater intrusion in coastal systems. <i>Talanta</i> , 2021, 235, 122708.	5.5	10

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19	A laser ablation technique maps differences in elemental composition in roots of two barley cultivars subjected to salinity stress. <i>Plant Journal</i> , 2020, 101, 1462-1473.	5.7	10
20	Halogens in hydrothermal sphalerite record origin of ore-forming fluids. <i>Geology</i> , 2020, 48, 766-770.	4.4	21
21	Coupled U-Pb and Rb-Sr laser ablation geochronology trace Archean to Proterozoic crustal evolution in the Dharwar Craton, India. <i>Precambrian Research</i> , 2020, 343, 105709.	2.7	15
22	Removal of Hg interferences for common Pb correction when dating apatite and titanite by LA-ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1472-1481.	3.0	13
23	Structural evolution and medium-temperature thermochronology of central Madagascar: implications for Gondwana amalgamation. <i>Journal of the Geological Society</i> , 2020, 177, 784-798.	2.1	17
24	Multivariate Statistical Analysis of Trace Elements in Pyrite: Prediction, Bias and Artefacts in Defining Mineral Signatures. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 61.	2.0	14
25	Rapid, competitive radium uptake in strontium, barium, and lead sulfates during sulfuric acid leaching. <i>Applied Geochemistry</i> , 2020, 115, 104549.	3.0	11
26	Trace element substitution and grain-scale compositional heterogeneity in enargite. <i>Ore Geology Reviews</i> , 2019, 111, 103004.	2.7	10
27	Intermobility of barium, strontium, and lead in chloride and sulfate leach solutions. <i>Geochemical Transactions</i> , 2019, 20, 4.	0.7	3
28	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> , 2019, 57, 3-24.	1.0	15
29	Trace element distributions in (Cu)-Pb-Sb sulfosalts from the Gutaishan Au-Sb deposit, South China: Implications for formation of high fineness native gold. <i>American Mineralogist</i> , 2019, 104, 425-437.	1.9	11
30	A multi-technique evaluation of hydrothermal hematite U Pb isotope systematics: Implications for ore deposit geochronology. <i>Chemical Geology</i> , 2019, 513, 54-72.	3.3	36
31	Uptake of trace elements by baryte during copper ore processing: A case study from Olympic Dam, South Australia. <i>Minerals Engineering</i> , 2019, 135, 83-94.	4.3	13
32	Synthesis of U-Pb doped hematite using a hydrated ferric oxide approach. <i>Journal of Crystal Growth</i> , 2019, 513, 48-57.	1.5	3
33	Thermochronological and geochemical footprints of post-orogenic fluid alteration recorded in apatite: Implications for mineralisation in the Uzbek Tian Shan. <i>Gondwana Research</i> , 2019, 71, 1-15.	6.0	39
34	Iron-oxides constrain BIF evolution in terranes with protracted geological histories: The Iron Count prospect, Middleback Ranges, South Australia. <i>Lithos</i> , 2019, 324-325, 20-38.	1.4	12
35	Textures and trace element composition of pyrite from the Bukit Botol volcanic-hosted massive sulphide deposit, Peninsular Malaysia. <i>Journal of Asian Earth Sciences</i> , 2018, 158, 173-185.	2.3	26
36	Syn-tectonic sulphide remobilization and trace element redistribution at the Falun pyritic Zn-Pb-Cu-(Au-Ag) sulphide deposit, Bergslagen, Sweden. <i>Ore Geology Reviews</i> , 2018, 96, 48-71.	2.7	32

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37	Matrix dependency for oxide production rates by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 638-646.	3.0	10
38	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> , 2017, 91, 173-195.	2.7	54
39	Rare Earth Element Fluorocarbonate Minerals from the Olympic Dam Cu-U-Au-Ag Deposit, South Australia. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 202.	2.0	26
40	Cu-Ni-PGE fertility of the Yoko-Dovyren layered massif (northern Transbaikalia, Russia): thermodynamic modeling of sulfide compositions in low mineralized dunite based on quantitative sulfide mineralogy. <i>Mineralium Deposita</i> , 2016, 51, 993-1011.	4.1	29
41	Concentration of Particulate Platinum-Group Minerals during Magma Emplacement; a Case Study from the Merensky Reef, Bushveld Complex. <i>Journal of Petrology</i> , 2015, 56, 113-159.	2.8	29
42	Hydrothermal and metamorphic fluid-rock interaction associated with hypogene "hard" iron ore mineralisation in the Quadrilátero Ferrífero, Brazil: Implications from in-situ laser ablation ICP-MS iron oxide chemistry. <i>Ore Geology Reviews</i> , 2015, 69, 325-351.	2.7	32
43	Fractionation of sulphur relative to iron during laser ablation-ICP-MS analyses of sulphide minerals: implications for quantification. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1024-1033.	3.0	46
44	Optimisation of laser parameters for the analysis of sulphur isotopes in sulphide minerals by laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1042-1051.	3.0	96
45	LA-ICP-MS and EPMA studies on the Fe-S-As minerals from the Jinlongshan gold deposit, Qinling Orogen, China: implications for ore-forming processes. <i>Geological Journal</i> , 2014, 49, 482-500.	1.3	32
46	Evidence for an Intrabasinal Source and Multiple Concentration Processes in the Formation of the Carbon Leader Reef, Witwatersrand Supergroup, South Africa. <i>Economic Geology</i> , 2013, 108, 1215-1241.	3.8	63
47	A Comparative Study of Five Reference Materials and the Lombard Meteorite for the Determination of the Platinum-Group Elements and Gold by LA-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 51-64.	3.1	53
48	Geometallurgy of the Pebble Porphyry Copper-Gold-Molybdenum Deposit, Alaska: Implications for Gold Distribution and Paragenesis. <i>Economic Geology</i> , 2013, 108, 463-482.	3.8	60
49	Gold-telluride nanoparticles revealed in arsenic-free pyrite. <i>American Mineralogist</i> , 2012, 97, 1515-1518.	1.9	150
50	Multivariate Analysis of an LA-ICP-MS Trace Element Dataset for Pyrite. <i>Mathematical Geosciences</i> , 2012, 44, 823-842.	2.4	90
51	LA-ICPMS and EPMA studies of pyrite, arsenopyrite and loellingite from the Bhukia-Jagpura gold prospect, southern Rajasthan, India: Implications for ore genesis and gold remobilization. <i>Chemical Geology</i> , 2012, 326-327, 72-87.	3.3	80
52	Routine quantitative multi-element analysis of sulphide minerals by laser ablation ICP-MS: Standard development and consideration of matrix effects. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2011, 11, 51-60.	0.9	211
53	Minor and trace elements in bornite and associated Cu-(Fe)-sulfides: A LA-ICP-MS study Bornite mineral chemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6473-6496.	3.9	118
54	Transgenerational marking of cephalopods with an enriched barium isotope: a promising tool for empirically estimating post-hatching movement and population connectivity. <i>ICES Journal of Marine Science</i> , 2010, 67, 1372-1380.	2.5	10

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55	In situ Pb-isotope analysis of pyrite by laser ablation (multi-collector and quadrupole) ICPMS. <i>Chemical Geology</i> , 2009, 262, 344-354.	3.3	74
56	Development of Framboidal Pyrite During Diagenesis, Low-Grade Regional Metamorphism, and Hydrothermal Alteration. <i>Economic Geology</i> , 2009, 104, 1143-1168.	3.8	84
57	Gold and Trace Element Zonation in Pyrite Using a Laser Imaging Technique: Implications for the Timing of Gold in Orogenic and Carlin-Style Sediment-Hosted Deposits. <i>Economic Geology</i> , 2009, 104, 635-668.	3.8	748
58	Age and pyrite Pb-isotopic composition of the giant Sukhoi Log sediment-hosted gold deposit, Russia. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2377-2391.	3.9	151
59	The effects of hardpan layers on the water chemistry from the leaching of pyrrhotite-rich tailings material. <i>Environmental Geology</i> , 2003, 44, 687-697.	1.2	30