

# Simon Jowitt

## List of Publications by Year in descending order

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85  
papers

3,334  
citations

156536

32  
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175968

55  
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99  
all docs

99  
docs citations

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times ranked

2940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling of mineralizing processes during the formation of the Yangzhuang Kiruna-type iron deposit, Middle and Lower Yangtze River Metallogenic Belt, China: Implications for the genesis and longevity of Kiruna-type iron oxide-apatite systems. <i>Solid Earth Sciences</i> , 2022, 7, 23-37.	0.8	4
2	Mineral economics of the rare-earth elements. <i>MRS Bulletin</i> , 2022, 47, 276-282.	1.7	13
3	Exploration for Byproduct Critical Element Resources: Proxy Development Using a LAâ€“ICPâ€“MS Database. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	3
4	THE IMPORTANCE OF GEOLOGY IN ASSESSING BY- AND COPRODUCT METAL SUPPLY POTENTIAL; A CASE STUDY OF ANTIMONY, BISMUTH, SELENIUM, AND TELLURIUM WITHIN THE COPPER PRODUCTION STREAM. <i>Economic Geology</i> , 2022, 117, 1367-1385.	1.8	8
5	Middle Triassic arc magmatism in the southern Lhasa terrane: Geochronology, petrogenesis and tectonic setting. <i>Lithos</i> , 2021, 380-381, 105857.	0.6	8
6	Geology and Mining: Mineral Resources and Reserves: Their Estimation, Use, and Abuse. <i>SEG Discovery</i> , 2021, , 27-36.	1.2	13
7	Molybdenite Reâ€“Os, titanite and garnet Uâ€“Pb dating of the Magushan skarn Cuâ€“Mo deposit, Xuancheng district, Middleâ€“Lower Yangtze River Metallogenic Belt. <i>Geoscience Frontiers</i> , 2021, 12, 101116.	4.3	10
8	Barriers to and uncertainties in understanding and quantifying global critical mineral and element supply. <i>IScience</i> , 2021, 24, 102809.	1.9	45
9	Garnet major and trace element evidence of the alteration and mineralizing processes associated with genesis of the Qiaomaishan skarn deposit, Xuancheng ore district, eastern China. <i>Ore Geology Reviews</i> , 2021, 137, 104304.	1.1	7
10	Battery and Energy Metals: Future Drivers of the Minerals Industry?. <i>SEG Discovery</i> , 2021, , 11-18.	1.2	14
11	Numerical modeling of ore-forming processes within the Chating Cu-Au porphyry-type deposit, China: Implications for the longevity of hydrothermal systems and potential uses in mineral exploration. <i>Ore Geology Reviews</i> , 2020, 116, 103230.	1.1	23
12	Paleomagnetic evidence for the Gothenburg geomagnetic excursion during the Pleistoceneâ€“Holocene transition recorded in the Paleo-Danyang Lake, eastern China. <i>Journal of Asian Earth Sciences</i> , 2020, 201, 104140.	1.0	2
13	Convolutional neural network and transfer learning based mineral prospectivity modeling for geochemical exploration of Au mineralization within the Guandianâ€“Zhangbaling area, Anhui Province, China. <i>Applied Geochemistry</i> , 2020, 122, 104747.	1.4	45
14	Geochronology, petrogenesis and metallogenic implications of mineralization-related intrusive rocks in the Xuancheng ore district, Eastern China. <i>Ore Geology Reviews</i> , 2020, 125, 103690.	1.1	9
15	Future availability of non-renewable metal resources and the influence of environmental, social, and governance conflicts on metal production. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	2.6	109
16	Reviewing the material and metal security of low-carbon energy transitions. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 124, 109789.	8.2	99
17	Mining in Papua New Guinea: A complex story of trends, impacts and governance. <i>Science of the Total Environment</i> , 2020, 741, 140375.	3.9	22
18	Arcâ€“Type Magmatism Due to Continentalâ€“Edge Plowing Through Ancient Subductionâ€“Enriched Mantle. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087484.	1.5	15

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19	COVID-19 and the Global Mining Industry. SEG Newsletter, 2020, , 33-41.	0.6	15
20	3D Numerical Simulation-Based Targeting of Skarn Type Mineralization within the Xuancheng-Magushan Orefield, Middle-Lower Yangtze Metallogenic Belt, China. Lithosphere, 2020, 2020, .	0.6	7
21	Fluid inclusion and stable isotope constraints on the heavy rare earth element mineralisation in the Browns Range Dome, Tanami Region, Western Australia. Ore Geology Reviews, 2019, 113, 103068.	1.1	4
22	A new plumbing system framework for mantle plume-related continental Large Igneous Provinces and their mafic-ultramafic intrusions. Journal of Volcanology and Geothermal Research, 2019, 384, 75-84.	0.8	94
23	Petrogenesis and economic potential of rare-metal pegmatites in the North Virgin Mountains, Nevadaâ€“Arizona. Canadian Mineralogist, 2019, 57, 767-769.	0.3	0
24	Geochronology, geochemistry and petrogenesis of Late Triassic dolerites associated with the Nibao gold deposit, Youjiang Basin, southwestern China: Implications for post-collisional magmatism and its relationships with Carlin-like gold mineralization. Ore Geology Reviews, 2019, 111, 102971.	1.1	9
25	In situ LAâ€“ICPâ€“MS trace element analyses of magnetite: genetic implications for the Zhonggu orefield, Ningwu volcanic basin, Anhui Province, China. Mineralium Deposita, 2019, 54, 1243-1264.	1.7	19
26	Numerical Simulation Based Targeting of the Magushan Skarn Cuâ€“Mo Deposit, Middle-Lower Yangtze Metallogenic Belt, China. Minerals (Basel, Switzerland), 2019, 9, 588.	0.8	8
27	3D computational simulation-based mineral prospectivity modeling for exploration for concealed Feâ€“Cu skarn-type mineralization within the Yueshan orefield, Anqing district, Anhui Province, China. Ore Geology Reviews, 2019, 105, 1-17.	1.1	51
28	GLOBAL COPPER RESOURCES AND RESERVES; DISCOVERY IS NOT THE ONLY CONTROL ON SUPPLY. , 2019, , .		0
29	Recycling of the rare earth elements. Current Opinion in Green and Sustainable Chemistry, 2018, 13, 1-7.	3.2	211
30	Global platinum group element resources, reserves and mining â€“ A critical assessment. Science of the Total Environment, 2018, 622-623, 614-625.	3.9	69
31	Fate of transition metals during passive carbonation of ultramafic mine tailings via air capture with potential for metal resource recovery. International Journal of Greenhouse Gas Control, 2018, 71, 155-167.	2.3	37
32	Global Resource Assessments of Primary Metals: An Optimistic Reality Check. Natural Resources Research, 2018, 27, 229-240.	2.2	34
33	3D characteristic analysis-based targeting of concealed Kiruna-type Fe oxide-apatite mineralization within the Yangzhuang deposit of the Zhonggu orefield, southern Ningwu volcanic basin, middle-lower Yangtze River metallogenic Belt, China. Ore Geology Reviews, 2018, 92, 240-256.	1.1	19
34	Growing Global Copper Resources, Reserves and Production: Discovery Is Not the Only Control on Supply. Economic Geology, 2018, 113, 1235-1267.	1.8	94
35	When do mantle plumes destroy diamonds?. Earth and Planetary Science Letters, 2018, 502, 244-252.	1.8	25
36	The genesis of the Hehuashan Pbâ€“Zn deposit and implications for the Pbâ€“Zn prospectivity of the Tongling district, Middleâ€“Lower Yangtze River Metallogenic Belt, Anhui Province, China. Ore Geology Reviews, 2018, 101, 105-121.	1.1	19

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37	Introduction to a Resources Special Issue on Criticality of the Rare Earth Elements: Current and Future Sources and Recycling. <i>Resources</i> , 2018, 7, 35.	1.6	4
38	The Critical Metals: An Overview and Opportunities and Concerns for the Future. , 2018, , 25-38.		12
39	The world's by-product and critical metal resources part I: Uncertainties, current reporting practices, implications and grounds for optimism. <i>Ore Geology Reviews</i> , 2017, 86, 924-938.	1.1	67
40	Geochronology and geochemistry of the Fe ore-bearing Zhonggu intrusions of the Ningwu Basin: Implications for tectonic setting and contemporaneous Cu-Au mineralization in the Middle- Lower Yangtze Metallogenic Belt. <i>Ore Geology Reviews</i> , 2017, 84, 246-272.	1.1	16
41	Regrowth of arsenate-sulfate efflorescences on processing plant walls at the Ottery arsenic-tin mine, New South Wales, Australia: Implications for arsenic mobility and remediation of mineral processing sites. <i>Applied Geochemistry</i> , 2017, 79, 91-106.	1.4	4
42	The world's by-product and critical metal resources part III: A global assessment of indium. <i>Ore Geology Reviews</i> , 2017, 86, 939-956.	1.1	109
43	The rare earth element (REE) mineralisation potential of highly fractionated rhyolites: A potential low-grade, bulk tonnage source of critical metals. <i>Ore Geology Reviews</i> , 2017, 86, 548-562.	1.1	32
44	Singularity mapping of fracture fills and its relationship to deep concealed orebodies – a case study of the Shaxi porphyry Cu-Au deposit, China. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2017, 17, 252-260.	0.5	3
45	The exposure of global base metal resources to water criticality, scarcity and climate change. <i>Global Environmental Change</i> , 2017, 44, 109-124.	3.6	114
46	Petrogenesis and timing of emplacement of porphyritic monzonite, dolerite, and basalt associated with the Kuoerzhenkuola Au deposit, Western Junggar, NW China: implications for early Carboniferous tectonic setting and Cu-Au mineralization prospectivity. <i>International Geology Review</i> , 2017, 59, 1154-1174.	1.1	10
47	Critical metals in the critical zone: controls, resources and future prospectivity of regolith-hosted rare earth elements. <i>Australian Journal of Earth Sciences</i> , 2017, 64, 1045-1054.	0.4	19
48	The world's by-product and critical metal resources part II: A method for quantifying the resources of rarely reported metals. <i>Ore Geology Reviews</i> , 2017, 80, 658-675.	1.1	40
49	The world's lead-zinc mineral resources: Scarcity, data, issues and opportunities. <i>Ore Geology Reviews</i> , 2017, 80, 1160-1190.	1.1	99
50	Large Igneous Provinces and Their Mafic-Ultramafic Intrusions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 110, 012005.	0.2	3
51	Comparison of the multifractal characteristics of heavy metals in soils within two areas of contrasting economic activities in China. <i>Nonlinear Processes in Geophysics</i> , 2016, 23, 331-339.	0.6	5
52	Mineral Economics and Critical Metals: continuing a multi-part thematic issue. <i>Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science</i> , 2016, 125, 1-2.	0.8	3
53	Assessing the energy requirements and global warming potential of the production of rare earth elements. <i>Journal of Cleaner Production</i> , 2016, 139, 1282-1297.	4.6	67
54	Rare earth elements from heavy mineral sands: assessing the potential of a forgotten resource. <i>Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science</i> , 2016, 125, 107-113.	0.8	22

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55	Indium: key issues in assessing mineral resources and long-term supply from recycling. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2015, 124, 213-226.	0.8	70
56	Three-dimensional mineral prospectivity modeling for targeting of concealed mineralization within the Zhonggu iron orefield, Ningwu Basin, China. Ore Geology Reviews, 2015, 71, 633-654.	1.1	63
57	Mineral Economics and Critical Metals: introduction to a multi-part thematic issue. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2015, 124, 205-206.	0.8	9
58	Multifractal modelling-based mapping and identification of geochemical anomalies associated with Cu and Au mineralisation in the NW Junggar area of northern Xinjiang Province, China. Journal of Geochemical Exploration, 2015, 154, 252-264.	1.5	33
59	Origin of temporal - compositional variations during the eruption of Lake Purrumbete Maar, Newer Volcanics Province, southeastern Australia. Bulletin of Volcanology, 2015, 77, 1.	1.1	15
60	Petrogenesis of the A-type, Mesoproterozoic Intra-caldera Rheomorphic Kathleen Ignimbrite and Comagmatic Rowland Suite Intrusions, West Musgrave Province, Central Australia: Products of Extreme Fractional Crystallization in a Failed Rift Setting. Journal of Petrology, 2015, 56, 493-525.	1.1	22
61	Geochemistry and petrogenesis of mafic-ultramafic suites of the Irindina Province, Northern Territory, Australia: Implications for the Neoproterozoic to Devonian evolution of central Australia. Lithos, 2015, 234-235, 61-78.	0.6	14
62	A Detailed Assessment of Global Rare Earth Element Resources: Opportunities and Challenges. Economic Geology, 2015, 110, 1925-1952.	1.8	263
63	Controls on disseminated PGE-Cu-Ni sulfide mineralization within the Rietfontein deposit, Eastern Limb, Bushveld Complex, South Africa: Implications for the formation of contact-type magmatic sulfide deposits. Ore Geology Reviews, 2015, 64, 253-272.	1.1	5
64	Geochemistry of the 130 to 80 Ma Canadian High Arctic Large Igneous Province (HALIP) Event and Implications for Ni-Cu-PGE Prospectivity. Economic Geology, 2014, 109, 281-307.	1.8	63
65	An assessment of portable X-ray fluorescence spectroscopy in mineral exploration, Kurnalpi Terrane, Eastern Goldfields Superterrane, Western Australia. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2014, 123, 150-163.	0.8	24
66	Geology, mineralogy, and geochemistry of magnetite-associated Au mineralization of the ultramafic-basalt greenstone hosted Crusader Complex, Agnew Gold Camp, Eastern Yilgarn Craton, Western Australia; a Late Archean intrusion-related Au deposit?. Ore Geology Reviews, 2014, 56, 53-72.	1.1	17
67	A Detailed Assessment of Global Nickel Resource Trends and Endowments. Economic Geology, 2014, 109, 1813-1841.	1.8	177
68	Three-dimensional weights of evidence-based prospectivity modeling: A case study of the Baixiangshan mining area, Ningwu Basin, Middle and Lower Yangtze Metallogenic Belt, China. Journal of Geochemical Exploration, 2014, 145, 82-97.	1.5	49
69	Geochemical assessment of the metallogenic potential of Proterozoic LIPs of Canada. Lithos, 2013, 174, 291-307.	0.6	50
70	Quantifying the recoverable resources of by-product metals: The case of cobalt. Ore Geology Reviews, 2013, 55, 87-98.	1.1	130
71	The Avebury Ni deposit, Tasmania: A case study of an unconventional nickel deposit. Ore Geology Reviews, 2013, 52, 4-17.	1.1	41
72	Early Paleozoic mafic magmatic events on the eastern margin of the Siberian Craton. Lithos, 2013, 174, 44-56.	0.6	35

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73	Assessing rare earth element mineral deposit types and links to environmental impacts. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2013, 122, 83-96.	0.8	72
74	HIDDEN MINERAL DEPOSITS IN Cu-DOMINATED PORPHYRY-SKARN SYSTEMS: HOW RESOURCE REPORTING CAN OCCLUDE IMPORTANT MINERALIZATION TYPES WITHIN MINING CAMPS. Economic Geology, 2013, 108, 1185-1193.	1.8	35
75	A Detailed Assessment of Global Cu Resource Trends and Endowments. Economic Geology, 2013, 108, 1163-1183.	1.8	131
76	Mineralogical and Geochemical Controls on the Formation of the Woods Point Dike Swarm, Victoria, Australia: Evidence from the Morning Star Dike and Implications for Sourcing of Au Within Orogenic Gold Systems. Economic Geology, 2012, 107, 251-273.	1.8	11
77	Source, evolution and emplacement of Permian Tarim Basalts: Evidence from U-Pb dating, Sr-Nd-Pb-Hf isotope systematics and whole rock geochemistry of basalts from the Keping area, Xinjiang Uygur Autonomous region, northwest China. Journal of Asian Earth Sciences, 2012, 49, 175-190.	1.0	52
78	Anomaly identification in soil geochemistry using multifractal interpolation: A case study using the distribution of Cu and Au in soils from the Tongling mining district, Yangtze metallogenic belt, Anhui province, China. Journal of Geochemical Exploration, 2012, 116-117, 28-39.	1.5	22
79	Quantifying the release of base metals from source rocks for volcanogenic massive sulfide deposits: Effects of protolith composition and alteration mineralogy. Journal of Geochemical Exploration, 2012, 118, 47-59.	1.5	56
80	Siderophile and chalcophile metal variations in basalts: Implications for the sulfide saturation history and Ni-Cu-PGE mineralization potential of the Tarim continental flood basalt province, Xinjiang Province, China. Ore Geology Reviews, 2012, 45, 5-15.	1.1	29
81	Petrogenesis of volcanic and intrusive rocks of the Zhuanqiao stage, Luzong Basin, Yangtze metallogenic belt, east China: implications for ore deposition. International Geology Review, 2011, 53, 526-541.	1.1	20
82	Shale-hosted Ni-(Cu-PGE) mineralisation: a global overview. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2011, 120, 187-197.	0.8	26
83	Comparison of normalisation methods for non-normal distributed soil geochemical data: a case study from the Tongling metallogenic district, Yangtze belt, Anhui Province, China. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2010, 119, 227-235.	0.8	3
84	â€²Ta-type mineralisation â€” a pseudo-epithermal style of VHMS associated gold mineralisation, Cyprus. , 2005, , 635-637.		1
85	Mineralisation potential mapping for ophiolite-hosted volcanic massive sulphide (VHMS) deposits, Troodos Ophiolite, Cyprus. , 2005, , 1469-1472.		1