

Jamie J Wilkinson

List of Publications by Year in descending order

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84
papers

4,650
citations

117625

34
h-index

102487

66
g-index

93
all docs

93
docs citations

93
times ranked

2841
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid inclusions in hydrothermal ore deposits. <i>Lithos</i> , 2001, 55, 229-272.	1.4	698
2	Triggers for the formation of porphyry ore deposits in magmatic arcs. <i>Nature Geoscience</i> , 2013, 6, 917-925.	12.9	351
3	Zn and Cu isotopic variability in the Alexandrinka volcanic-hosted massive sulphide (VHMS) ore deposit, Urals, Russia. <i>Chemical Geology</i> , 2005, 221, 170-187.	3.3	210
4	The effect of titanite crystallisation on Eu and Ce anomalies in zircon and its implications for the assessment of porphyry Cu deposit fertility. <i>Earth and Planetary Science Letters</i> , 2017, 472, 107-119.	4.4	158
5	ZINC ISOTOPE VARIATION IN HYDROTHERMAL SYSTEMS: PRELIMINARY EVIDENCE FROM THE IRISH MIDLANDS ORE FIELD. <i>Economic Geology</i> , 2005, 100, 583-590.	3.8	151
6	The chlorite proximator: A new tool for detecting porphyry ore deposits. <i>Journal of Geochemical Exploration</i> , 2015, 152, 10-26.	3.2	147
7	Pressure fluctuations, phase separation, and gold precipitation during seismic fracture propagation. <i>Geology</i> , 1996, 24, 395.	4.4	143
8	Anomalously Metal-Rich Fluids Form Hydrothermal Ore Deposits. <i>Science</i> , 2009, 323, 764-767.	12.6	143
9	Chemical Separation and Isotopic Variations of Cu and Zn From Five Geological Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2006, 30, 5-16.	1.9	132
10	Ore-Forming Processes in Irish-Type Carbonate-Hosted Zn-Pb Deposits: Evidence from Mineralogy, Chemistry, and Isotopic Composition of Sulfides at the Lisheen Mine. <i>Economic Geology</i> , 2005, 100, 63-86.	3.8	124
11	Atmospheric deposition and isotope biogeochemistry of zinc in ombrotrophic peat. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3498-3517.	3.9	122
12	Colloidal gold and silica in mesothermal vein systems. <i>Geology</i> , 1993, 21, 539.	4.4	97
13	Geochemistry and Evolution of Mississippi Valley-Type Mineralizing Brines from the Tri-State and Northern Arkansas Districts Determined by LA-ICP-MS Microanalysis of Fluid Inclusions. <i>Economic Geology</i> , 2008, 103, 1411-1435.	3.8	93
14	A Review of Fluid Inclusion Constraints on Mineralization in the Irish Ore Field and Implications for the Genesis of Sediment-Hosted Zn-Pb Deposits. <i>Economic Geology</i> , 2010, 105, 417-442.	3.8	88
15	ZINC ISOTOPES IN SPHALERITE FROM BASE METAL DEPOSITS IN THE RED DOG DISTRICT, NORTHERN ALASKA. <i>Economic Geology</i> , 2009, 104, 767-773.	3.8	86
16	Multistage Intrusion, Brecciation, and Veining at El Teniente, Chile: Evolution of a Nested Porphyry System. <i>Economic Geology</i> , 2010, 105, 119-153.	3.8	84
17	Variable water input controls evolution of the Lesser Antilles volcanic arc. <i>Nature</i> , 2020, 582, 525-529.	27.8	81
18	The Distribution and Timing of Molybdenite Mineralization at the El Teniente Cu-Mo Porphyry Deposit, Chile. <i>Economic Geology</i> , 2015, 110, 387-421.	3.8	68

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19	Multi-stage arc magma evolution recorded by apatite in volcanic rocks. <i>Geology</i> , 2020, 48, 323-327.	4.4	59
20	Gold remobilization by low-temperature brines; evidence from the Curraghinalt gold deposit, Northern Ireland. <i>Economic Geology</i> , 1999, 94, 289-296.	3.8	58
21	On diagenesis, dolomitisation and mineralisation in the Irish Zn-Pb orefield. <i>Mineralium Deposita</i> , 2003, 38, 968-983.	4.1	57
22	On the growth of colloform textures: a case study of sphalerite from the Galmoy ore body, Ireland. <i>Journal of the Geological Society</i> , 2009, 166, 563-582.	2.1	56
23	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
24	Geological characteristics, tectonic setting and preliminary interpretations of the Jilau gold-quartz vein deposit, Tajikistan. <i>Mineralium Deposita</i> , 2000, 35, 600-618.	4.1	53
25	Spectral characteristics of propylitic alteration minerals as a vectoring tool for porphyry copper deposits. <i>Journal of Geochemical Exploration</i> , 2018, 184, 179-198.	3.2	53
26	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
27	Using Mineral Chemistry to Aid Exploration: A Case Study from the Resolution Porphyry Cu-Mo Deposit, Arizona. <i>Economic Geology</i> , 2020, 115, 813-840.	3.8	48
28	Oxygen and hydrogen isotopic evolution of Variscan crustal fluids, south Cornwall, U.K.. <i>Chemical Geology</i> , 1995, 123, 239-254.	3.3	46
29	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
30	Thermodynamic controls on element partitioning between titanomagnetite and andesitic-dacitic silicate melts. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	43
31	Chlorite and Epidote Mineral Chemistry in Porphyry Ore Systems: A Case Study of the Northparkes District, New South Wales, Australia. <i>Economic Geology</i> , 2020, 115, 701-727.	3.8	42
32	Exploration Targeting in Porphyry Cu Systems Using Propylitic Mineral Chemistry: A Case Study of the El Teniente Deposit, Chile. <i>Economic Geology</i> , 2020, 115, 771-791.	3.8	40
33	Silicothermal fluid: A novel medium for mass transport in the lithosphere. <i>Geology</i> , 1996, 24, 1059.	4.4	38
34	Self-organization of submarine hydrothermal siliceous deposits: Evidence from the TAG hydrothermal mound, 26°N Mid-Atlantic Ridge. <i>Geology</i> , 1998, 26, 347.	4.4	35
35	Formation of jasper and andradite during low-temperature hydrothermal seafloor metamorphism, Ongeluk Formation, South Africa. <i>Contributions To Mineralogy and Petrology</i> , 2001, 142, 27-42.	3.1	35
36	A global assessment of Zn isotope fractionation in secondary Zn minerals from sulfide and non-sulfide ore deposits and model for fractionation control. <i>Chemical Geology</i> , 2018, 500, 182-193.	3.3	34

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37	Fracture-controlled fluid flow in the Lower Palaeozoic basement rocks of Ireland: implications for the genesis of Irish-type Zn-Pb deposits. <i>Geological Society Special Publication</i> , 1999, 155, 247-276.	1.3	31
38	Laser ablation-ICP-AES for the determination of metals in fluid inclusions: An application to the study of magmatic ore fluids. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1133-1146.	3.9	30
39	Implications from inclusions in topaz for greisenisation and mineralisation in the Hensbarrow topaz granite, Cornwall, England. <i>Contributions To Mineralogy and Petrology</i> , 1997, 127, 119-128.	3.1	30
40	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
41	Metal Transport and Deposition in Hydrothermal Veins Revealed by 213nm UV Laser Ablation Microanalysis of Single Fluid Inclusions. <i>Numerische Mathematik</i> , 2004, 304, 533-557.	1.4	30
42	On the occurrence and wider implications of anomalously low $\delta^{18}O$ fluids in quartz veins, South Cornwall, England. <i>Chemical Geology</i> , 1999, 160, 161-173.	3.3	28
43	Multistage Au-As-Sb Mineralization and Crustal-Scale Fluid Evolution in the Kwekwe District, Midlands Greenstone Belt, Zimbabwe: A Combined Geochemical, Mineralogical, Stable Isotope, and Fluid Inclusion Study. <i>Economic Geology</i> , 2007, 102, 347-378.	3.8	28
44	The role of metamorphic fluids in the development of the Cornubian orefield: fluid inclusion evidence from south Cornwall. <i>Mineralogical Magazine</i> , 1990, 54, 219-230.	1.4	28
45	The nature of crystalline silica from the TAG submarine hydrothermal mound, 26°N Mid Atlantic Ridge. <i>Contributions To Mineralogy and Petrology</i> , 1999, 137, 342-350.	3.1	26
46	A high-temperature hydrothermal origin for black dolomite matrix breccias in the Irish Zn-Pb orefield. <i>Mineralogical Magazine</i> , 2000, 64, 1017-1036.	1.4	26
47	Along-Arc Heterogeneity in Local Seismicity across the Lesser Antilles Subduction Zone from a Dense Ocean-Bottom Seismometer Network. <i>Seismological Research Letters</i> , 2020, 91, 237-247.	1.9	26
48	From long-lived batholith construction to giant porphyry copper deposit formation: petrological and zircon chemical evolution of the Quellaveco District, Southern Peru. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	26
49	Chemical mass transfer during hydrothermal alteration of carbonates: Controls of seafloor subsidence, sedimentation and Zn-Pb mineralization in the Irish Carboniferous. <i>Chemical Geology</i> , 2011, 289, 55-75.	3.3	25
50	Understanding the microscale spatial distribution and mineralogical residency of Re in pyrite: Examples from carbonate-hosted Zn-Pb ores and implications for pyrite Re-Os geochronology. <i>Chemical Geology</i> , 2020, 533, 119427.	3.3	25
51	Recent advances in the application of mineral chemistry to exploration for porphyry copper-gold-molybdenum deposits: detecting the geochemical fingerprints and footprints of hypogene mineralization and alteration. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2020, 20, 176-188.	0.9	24
52	Magmatic Fluids Implicated in the Formation of Propylitic Alteration: Oxygen, Hydrogen, and Strontium Isotope Constraints from the Northparkes Porphyry Cu-Au District, New South Wales, Australia. <i>Economic Geology</i> , 2020, 115, 729-748.	3.8	23
53	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
54	Subduction history of the Caribbean from upper-mantle seismic imaging and plate reconstruction. <i>Nature Communications</i> , 2021, 12, 4211.	12.8	21

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55	Controls on the magnitude of Ce anomalies in zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 328, 242-257.	3.9	21
56	Epidote Trace Element Chemistry as an Exploration Tool in the Collahuasi District, Northern Chile. <i>Economic Geology</i> , 2020, 115, 749-770.	3.8	20
57	Wide-Angle Seismic Imaging of Two Modes of Crustal Accretion in Mature Atlantic Ocean Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019100.	3.4	20
58	How metalliferous brines line Mexican epithermal veins with silver. <i>Scientific Reports</i> , 2013, 3, 2057.	3.3	19
59	The Anatomy of an Alkalic Porphyry Cu-Au System: Geology and Alteration at Northparkes Mines, New South Wales, Australia. <i>Economic Geology</i> , 2019, 114, 441-472.	3.8	18
60	Fluid inclusion constraints on conditions and timing of hydrocarbon migration and quartz cementation in Brent Group reservoir sandstones, Columba Terrace, northern North Sea. <i>Geological Society Special Publication</i> , 1998, 144, 69-89.	1.3	17
61	Formation of coagulated colloidal silica in high-temperature mineralizing fluids. <i>Mineralogical Magazine</i> , 2002, 66, 547-553.	1.4	17
62	Single fluid inclusion analysis by laser ablation inductively coupled plasma atomic emission spectrometry: quantification and validation. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 587.	3.0	16
63	Chicxulub: Testing for post-impact hydrothermal input into the Tertiary ocean. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1223-1231.	1.6	16
64	Machine learning for geochemical exploration: classifying metallogenic fertility in arc magmas and insights into porphyry copper deposit formation. <i>Mineralium Deposita</i> , 2022, 57, 1143-1166.	4.1	16
65	Volatile production during contact metamorphism: the role of organic matter in pelites. <i>Journal of the Geological Society</i> , 1991, 148, 731-736.	2.1	15
66	Mapping geologic features onto subducted slabs. <i>Geophysical Journal International</i> , 2019, 219, 725-733.	2.4	14
67	Hyper-spectral ionoluminescence system for minerals and fluid inclusions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2244-2250.	1.4	13
68	METASTABLE FREEZING: A NEW METHOD FOR THE ESTIMATION OF SALINITY IN AQUEOUS FLUID INCLUSIONS. <i>Economic Geology</i> , 2017, 112, 185-193.	3.8	13
69	Short Paper: Palynological evidence from the Porthleven area, south Cornwall: implications for Devonian stratigraphy and Hercynian structural evolution. <i>Journal of the Geological Society</i> , 1989, 146, 739-742.	2.1	11
70	Project VoiLA: Volatile Recycling in the Lesser Antilles. <i>Eos</i> , 2019, 100, .	0.1	11
71	Ore deposits in an evolving Earth: an introduction. <i>Geological Society Special Publication</i> , 2015, 393, 1-8.	1.3	10
72	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

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73	U-Pb DATING OF HYDROTHERMAL TITANITE RESOLVES MULTIPLE PHASES OF PROPYLITIC ALTERATION IN THE OYU TOLGOI PORPHYRY DISTRICT, MONGOLIA. <i>Economic Geology</i> , 2020, 115, 1605-1618.	3.8	9
74	Copper- and cobalt-rich, ultrapotassic bittern brines responsible for the formation of the Nkana-Mindola deposits, Zambian Copperbelt. <i>Geology</i> , 2021, 49, 341-345.	4.4	9
75	Variation in Upper Plate Crustal and Lithospheric Mantle Structure in the Greater and Lesser Antilles From Ambient Noise Tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009800.	2.5	7
76	A mineralogical and fluid inclusion study of the Harberton Bridge Fe-Zn-Pb deposit, County Kildare, Ireland. <i>Journal of the Geological Society</i> , 2001, 158, 37-46.	2.1	6
77	Assessing Thallium Elemental Systematics and Isotope Ratio Variations in Porphyry Ore Systems: A Case Study of the Bingham Canyon District. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 548.	2.0	6
78	Hydrothermal fluid evolution in the Escondida porphyry copper deposit, northern Chile: evidence from SEM-CL imaging of quartz veins and LA-ICP-MS of fluid inclusions. <i>Mineralium Deposita</i> , 2022, 57, 279-300.	4.1	6
79	CEMENTATION, HYDROTHERMAL ALTERATION, AND Zn-Pb MINERALIZATION OF CARBONATE BRECCIAS IN THE IRISH MIDLANDS: TEXTURAL EVIDENCE FROM THE COOLEEN ZONE, NEAR SILVERMINES, COUNTY TIPPERARY. <i>Economic Geology</i> , 2002, 97, 653-662.	3.8	6
80	The controls of post-entrapment diffusion on the solubility of chalcopyrite daughter crystals in natural quartz-hosted fluid inclusions. <i>Chemical Geology</i> , 2015, 412, 15-25.	3.3	5
81	Regional remagnetization of Irish Carboniferous carbonates dates Variscan orogenesis, not Zn-Pb mineralization. <i>Geology</i> , 0, , G39032.1.	4.4	3
82	A new system for high-magnification thermometric studies of fluid inclusions in diagenetic minerals. <i>Journal of Sedimentary Research</i> , 1994, 64, 701-703.	1.6	2
83	CEMENTATION, HYDROTHERMAL ALTERATION, AND Zn-Pb MINERALIZATION OF CARBONATE BRECCIAS IN THE IRISH MIDLANDS: TEXTURAL EVIDENCE FROM THE COOLEEN ZONE, NEAR SILVERMINES, COUNTY TIPPERARY-A REPLY. <i>Economic Geology</i> , 2003, 98, 194-198.	3.8	1
84	Epigenesis. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 453-455.	0.1	0