

# James M Scott

## List of Publications by Year in descending order

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88  
papers

1,977  
citations

218677

26  
h-index

302126

39  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1322  
citing authors

#	ARTICLE	IF	CITATIONS
1	The subantarctic lithospheric mantle. <i>Geological Society Memoir</i> , 2023, 56, 115-132.	1.7	2
2	Surficial redistribution of gold and arsenic from the Rise and Shine Shear Zone, Otago, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2023, 66, 12-26.	1.8	2
3	Early Cretaceous basalts record the modification of the North China Craton lithospheric mantle: implications for lithospheric thinning. <i>International Geology Review</i> , 2022, 64, 1330-1346.	2.1	4
4	Distinct scheelite REE geochemistry and $^{87}\text{Sr}/^{86}\text{Sr}$ isotopes in proximally- and distally-sourced metamorphogenic hydrothermal systems, Otago Schist, New Zealand. <i>Ore Geology Reviews</i> , 2022, 144, 104800.	2.7	4
5	Ancient roots of tungsten in western North America. <i>Geology</i> , 2022, 50, 791-795.	4.4	9
6	Occurrence, geochemistry and provenance of REE-bearing minerals in marine placers on the West Coast of the South Island, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 89-106.	1.8	4
7	Pre-Alpine Fault Fabrics in Mantle Xenoliths From East Otago, South Island, New Zealand. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	7
8	Natural rehabilitation of arsenic-rich historical tailings at the Alexander mine, Reefton, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 558-569.	1.8	4
9	Introduction to the special issue on Volcanism in Zealandia and the SW Pacific. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 147-152.	1.8	1
10	In-situ scheelite LASS-ICPMS reconnaissance Sm-Nd isotope characterisation and prospects for dating. <i>Journal of Geochemical Exploration</i> , 2021, 224, 106760.	3.2	7
11	Highly localized upper mantle deformation during plate boundary initiation near the Alpine fault, New Zealand. <i>Geology</i> , 2021, 49, 1102-1106.	4.4	2
12	Intraplate Basalt Alkalinity Modulated by a Lithospheric Mantle Filter at the Dunedin Volcano (New Zealand). <i>Journal of Petrology</i> , 2021, 62, 1007-1024.	2.8	14
13	Deep continental roots and cratons. <i>Nature</i> , 2021, 596, 199-210.	27.8	93
14	Osmium isotopes in peridotite xenoliths reveal major mid-Proterozoic lithosphere formation under the Transantarctic Mountains. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 312, 25-43.	3.9	6
15	Does second phase content control the evolution of olivine CPO type and deformation mechanisms? A case study of paired harzburgite and dunite bands in the Red Hills Massif, Dun Mountain Ophiolite. <i>Lithos</i> , 2021, 406-407, 106532.	1.4	5
16	Chemical evolution and evaporation of shallow groundwaters discharging from a gold mine, southern New Zealand. <i>Applied Geochemistry</i> , 2020, 122, 104766.	3.0	12
17	Architecture and evolution of the lithospheric roots beneath circum-cratonic orogenic belts—The Xing'an Mongolia Orogenic Belt and its relationship with adjacent North China and Siberian cratonic roots. <i>Lithos</i> , 2020, 376-377, 105798.	1.4	3
18	Petrogenesis of amphibole megacrysts in lamprophyric intraplate magmatism in southern New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 489-509.	1.8	4

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19	Influence of host magma alkalinity on trachytic melts formed during incongruent orthopyroxene dissolution in mantle xenoliths. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 547-561.	1.8	5
20	Pyrometamorphosed Otago Schist xenoliths cause minor contamination of Dunedin Volcanic Group basanite. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 530-546.	1.8	6
21	An updated catalogue of New Zealand's mantle peridotite and serpentinite. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 428-449.	1.8	20
22	Intraplate volcanism on the Zealandia Eocene-Early Oligocene continental shelf: the Waiareka-Deborah Volcanic Field, North Otago. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 450-468.	1.8	7
23	Structural settings of gold deposits within the Reefton goldfield, western New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 342-362.	1.8	0
24	Volcanoes of Zealandia and the Southwest Pacific. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 371-377.	1.8	28
25	The Dunedin Volcanic Group and a revised model for Zealandia's alkaline intraplate volcanism. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 510-529.	1.8	24
26	The complex life cycle of oceanic lithosphere: A study of Yarlung-Zangbo ophiolitic peridotites, Tibet. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 277, 175-191.	3.9	41
27	Structural Controls on Shallow Cenozoic Fluid Flow in the Otago Schist, New Zealand. <i>Geofluids</i> , 2020, 2020, 1-25.	0.7	1
28	Element and Sr- <sup>87</sup> Sr- <sup>86</sup> isotope redistribution across a plate boundary-scale crustal serpentinite mélange shear zone, and implications for the slab-mantle interface. <i>Earth and Planetary Science Letters</i> , 2019, 522, 198-209.	4.4	12
29	Surficial arsenic redistribution above gold-mineralised zones in East Otago, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2019, 62, 573-587.	1.8	3
30	The internal structure and composition of a plate-boundary-scale serpentinite shear zone: the Livingstone Fault, New Zealand. <i>Solid Earth</i> , 2019, 10, 1025-1047.	2.8	15
31	Fluid overpressure from chemical reactions in serpentinite within the source region of deep episodic tremor. <i>Nature Geoscience</i> , 2019, 12, 1034-1042.	12.9	57
32	Garnet Compositions Track Longshore Migration of Beach Placers in Western New Zealand. <i>Economic Geology</i> , 2019, 114, 513-540.	3.8	7
33	Thinning and destruction of the lithospheric mantle root beneath the North China Craton: A review. <i>Earth-Science Reviews</i> , 2019, 196, 102873.	9.1	124
34	Geology of New Zealand's Sub-Antarctic Islands. <i>New Zealand Journal of Geology, and Geophysics</i> , 2019, 62, 291-317.	1.8	17
35	Low- <sup>18</sup> O zircon xenocrysts in alkaline basalts; a window into the complex carbonatite-metasomatic history of the Zealandia lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 254, 21-39.	3.9	16
36	Continent stabilisation by lateral accretion of subduction zone-processed depleted mantle residues; insights from Zealandia. <i>Earth and Planetary Science Letters</i> , 2019, 507, 175-186.	4.4	50

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37	Late Devonian contact metamorphism and a possible upper age to gold mineralisation in the northernmost portion of the Reefton Goldfield. <i>New Zealand Journal of Geology, and Geophysics</i> , 2019, 62, 121-130.	1.8	3
38	Carbonation reactions and coupled element and isotope redistribution during shallow crustal gold mineralisation, New Zealand. <i>Mineralium Deposita</i> , 2019, 54, 743-760.	4.1	4
39	Emplacement and Paleozoic and Cretaceous recrystallisation of the Broughton Arm Peridotite in Western Fiordland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2019, 62, 72-86.	1.8	2
40	Cretaceous igneous-related mineralisation in the Reefton Goldfield, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2019, 62, 87-99.	1.8	4
41	Microstructural and rheological evolution of calcite mylonites during shear zone thinning: Constraints from the Mount Irene shear zone, Fiordland, New Zealand. <i>Journal of Structural Geology</i> , 2018, 106, 86-102.	2.3	10
42	In Situ $^{87}\text{Sr}/^{86}\text{Sr}$ of Scheelite and Calcite Reveals Proximal and Distal Fluid-Rock Interaction During Orogenic W-Au Mineralization, Otago Schist, New Zealand. <i>Economic Geology</i> , 2018, 113, 1571-1586.	3.8	26
43	Dynamic earthquake rupture preserved in a creeping serpentinite shear zone. <i>Nature Communications</i> , 2018, 9, 3552.	12.8	23
44	Lateral H <sub>2</sub> O variation in the Zealandia lithospheric mantle controls orogen width. <i>Earth and Planetary Science Letters</i> , 2018, 502, 200-209.	4.4	15
45	Olivine xenocryst diffusion reveals rapid monogenetic basaltic magma ascent following complex storage at Pupuke Maar, Auckland Volcanic Field, New Zealand. <i>Earth and Planetary Science Letters</i> , 2018, 499, 13-22.	4.4	41
46	Variable sources for Cretaceous to recent HIMU and HIMU-like intraplate magmatism in New Zealand. <i>Earth and Planetary Science Letters</i> , 2017, 469, 27-41.	4.4	45
47	High- to ultrahigh-temperature metamorphism in the lower crust: An example resulting from Hikurangi Plateau collision and slab rollback in New Zealand. <i>Journal of Metamorphic Geology</i> , 2017, 35, 831-853.	3.4	25
48	Diffusion-zoned pyroxenes in an isotopically heterogeneous mantle lithosphere beneath the Dunedin Volcanic Group, New Zealand, and their implications for intraplate alkaline magma sources. <i>Lithosphere</i> , 2017, 9, 463-475.	1.4	30
49	Reactivation of normal faults as high-angle reverse faults due to low frictional strength: Experimental data from the Moonlight Fault Zone, New Zealand. <i>Journal of Structural Geology</i> , 2017, 105, 34-43.	2.3	16
50	Minerals from the Kakanui Volcanic Breccia: A 2017 Look at Geological Reference Materials for EPMA. <i>Microscopy and Microanalysis</i> , 2017, 23, 502-503.	0.4	4
51	Peridotitic Lithosphere Metasomatized by Volatile-bearing Melts, and its Association with Intraplate Alkaline HIMU-like Magmatism. <i>Journal of Petrology</i> , 2016, 57, 2053-2078.	2.8	56
52	Abrupt spatial and geochemical changes in lamprophyre magmatism related to Gondwana fragmentation prior, during and after opening of the Tasman Sea. <i>Gondwana Research</i> , 2016, 36, 142-156.	6.0	43
53	Tracing the origin of continental HIMU-like intraplate volcanism using magnesium isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 78-87.	3.9	64
54	Recrystallisation, phase mixing and strain localisation in peridotite during rapid extrusion of sub-arc mantle lithosphere. <i>Journal of Structural Geology</i> , 2016, 88, 1-19.	2.3	28

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55	Fault-zone structure and weakening processes in basin-scale reverse faults: The Moonlight Fault Zone, South Island, New Zealand. <i>Journal of Structural Geology</i> , 2016, 91, 177-194.	2.3	12
56	Mantle depletion and metasomatism recorded in orthopyroxene in highly depleted peridotites. <i>Chemical Geology</i> , 2016, 441, 280-291.	3.3	44
57	Coupled extrusion of sub-arc lithospheric mantle and lower crust during orogen collapse: a case study from Fiordland, New Zealand. <i>Journal of Metamorphic Geology</i> , 2016, 34, 501-524.	3.4	12
58	The Anita Peridotite, New Zealand: Ultra-depletion and Subtle Enrichment in Sub-arc Mantle. <i>Journal of Petrology</i> , 2016, 57, 717-750.	2.8	28
59	New $^{40}\text{Ar}/^{39}\text{Ar}$ and $^{206}\text{Pb}/^{238}\text{U}$ constraints on Alpine Schist metamorphism in south Westland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2015, 58, 385-397.	1.8	14
60	The longevity of Archean mantle residues in the convecting upper mantle and their role in young continent formation. <i>Earth and Planetary Science Letters</i> , 2015, 424, 109-118.	4.4	64
61	Geology and geochronology of the Sub-Antarctic Snares Islands/Tini Heke, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2015, 58, 202-212.	1.8	11
62	Carboniferous metamorphism and partial melting of the Greenland Group in the Jackson River valley, south Westland. <i>New Zealand Journal of Geology, and Geophysics</i> , 2015, 58, 22-32.	1.8	9
63	Cretaceous metamorphism, magmatism and shearing in the Waipuna Valley, directly south of the Reefton Goldfield. <i>New Zealand Journal of Geology, and Geophysics</i> , 2015, 58, 89-103.	1.8	9
64	Cape Wanbrow: A stack of Surtseyan-style volcanoes built over millions of years in the Waiareka-Deborah volcanic field, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 298, 27-46.	2.1	15
65	Earliest Pottery on New Guinea Mainland Reveals Austronesian Influences in Highland Environments 3000 Years Ago. <i>PLoS ONE</i> , 2015, 10, e0134497.	2.5	53
66	Ancient melt depletion overprinted by young carbonatitic metasomatism in the New Zealand lithospheric mantle. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	65
67	Introduction to <i>Journal of Structural Geology</i> special issue on "Continental Transform Faults". <i>Journal of Structural Geology</i> , 2014, 64, 1-2.	2.3	1
68	Metasomatized ancient lithospheric mantle beneath the young Zealandia microcontinent and its role in HIMU-like intraplate magmatism. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3477-3501.	2.5	85
69	A possible Late Oligocene-early Miocene rocky shoreline on Otago Schist. <i>New Zealand Journal of Geology, and Geophysics</i> , 2014, 57, 185-194.	1.8	10
70	Localisation of deformation in the thermal contrast at a granite batholith margin, New Zealand. <i>Journal of Structural Geology</i> , 2014, 64, 149-163.	2.3	2
71	High-T, Low-P Formation of Rare Olivine-bearing Symplectites in Variscan Eclogite. <i>Journal of Petrology</i> , 2013, 54, 1375-1398.	2.8	23
72	Magmatism during Gondwana break-up: new geochronological data from Westland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2013, 56, 229-242.	1.8	27

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73	A review of the location and significance of the boundary between the Western Province and Eastern Province, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2013, 56, 276-293.	1.8	41
74	The sub-Antarctic Antipodes Volcano: a <0.5 Ma HIMU-like Surtseyan volcanic outpost on the edge of the Campbell Plateau, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2013, 56, 134-153.	1.8	25
75	Molybdenite in Pomona Island Granite at Lake Manapouri, Fiordland. <i>New Zealand Journal of Geology, and Geophysics</i> , 2011, 54, 347-352.	1.8	2
76	The relationship of Palaeozoic metamorphism and S-type magmatism on the paleo-Pacific Gondwana margin. <i>Lithos</i> , 2011, 127, 522-534.	1.4	22
77	Crustal thickening of the Early Cretaceous paleo-Pacific Gondwana margin. <i>Gondwana Research</i> , 2011, 20, 380-394.	6.0	29
78	From richer to poorer: zircon inheritance in Pomona Island Granite, New Zealand. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 667-681.	3.1	15
79	Dating of volcanism and sedimentation in the Skelton Group, Transantarctic Mountains: Implications for the Rodinia-Gondwana transition in southern Victoria Land, Antarctica. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 681-702.	3.3	35
80	Beehive Diorite: A Late Jurassic two-pyroxene pluton at Lake Manapouri, Fiordland. <i>New Zealand Journal of Geology, and Geophysics</i> , 2009, 52, 59-65.	1.8	8
81	Polymetamorphism, zircon growth and retention of early assemblages through the dynamic evolution of a continental arc in Fiordland, New Zealand. <i>Journal of Metamorphic Geology</i> , 2009, 27, 281-294.	3.4	22
82	A younger age constraint on high-grade metamorphism near George Sound in Fiordland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2009, 52, 67-71.	1.8	4
83	Plutonic rocks of the Median Batholith in eastern and central Fiordland, New Zealand: Field relations, geochemistry, correlation, and nomenclature. <i>New Zealand Journal of Geology, and Geophysics</i> , 2009, 52, 101-148.	1.8	84
84	Tracking the influence of a continental margin on growth of a magmatic arc, Fiordland, New Zealand, using thermobarometry, thermochronology, and zircon U-Pb and Hf isotopes. <i>Tectonics</i> , 2009, 28, .	2.8	50
85	LA-ICP-MS U-Pb zircon ages from Mesozoic plutonic rocks in eastern Fiordland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2008, 51, 105-113.	1.8	42
86	Petrology and geochronology of the volcanoclastic and volcanogenic Mesozoic Loch Burn Formation in eastern Fiordland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2008, 51, 89-103.	1.8	20
87	Early Cretaceous extensional exhumation of the lower crust of a magmatic arc: Evidence from the Mount Irene Shear Zone, Fiordland, New Zealand. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	38
88	Cretaceous tungsten-tin mineralisation in the Tin Range, Stewart Island, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 0, , 1-16.	1.8	0