

Vincent J M Salters

List of Publications by Year in descending order

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78
papers

7,437
citations

76326

40
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85541

71
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79
all docs

79
docs citations

79
times ranked

4297
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition of the depleted mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	1,377
2	Extraction of mid-ocean-ridge basalt from the upwelling mantle by focused flow of melt in dunite channels. <i>Nature</i> , 1995, 375, 747-753.	27.8	732
3	Recycling oceanic crust: Quantitative constraints. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	389
4	Trace element partitioning during the initial stages of melting beneath mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 1999, 166, 15-30.	4.4	297
5	Hf isotope constraints on mantle evolution. <i>Chemical Geology</i> , 1998, 145, 447-460.	3.3	291
6	The hafnium paradox and the role of garnet in the source of mid-ocean-ridge basalts. <i>Nature</i> , 1989, 342, 420-422.	27.8	281
7	Trace and REE content of clinopyroxenes from supra-subduction zone peridotites. Implications for melting and enrichment processes in island arcs. <i>Chemical Geology</i> , 2000, 165, 67-85.	3.3	217
8	The mantle sources of ocean ridges, islands and arcs: the Hf-isotope connection. <i>Earth and Planetary Science Letters</i> , 1991, 104, 364-380.	4.4	213
9	Near mantle solidus trace element partitioning at pressures up to 3.4 GPa. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-23.	2.5	199
10	Geochemical characteristics of lavas from Broken Ridge, the Naturaliste Plateau and southernmost Kerguelen Plateau: Cretaceous plateau volcanism in the southeast Indian Ocean. <i>Chemical Geology</i> , 1995, 120, 315-345.	3.3	186
11	Mineralogy of the mid-ocean-ridge basalt source from neodymium isotopic composition of abyssal peridotites. <i>Nature</i> , 2002, 418, 68-72.	27.8	186
12	The brevity of carbonatite sources in the mantle: evidence from Hf isotopes. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 281-300.	3.1	180
13	Lanthanide-humic substances complexation. I. Experimental evidence for a lanthanide contraction effect. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1495-1506.	3.9	170
14	The generation of mid-ocean ridge basalts from the Hf and Nd isotope perspective. <i>Earth and Planetary Science Letters</i> , 1996, 141, 109-123.	4.4	154
15	Isotopic composition of species-specific atmospheric Hg in a coastal environment. <i>Chemical Geology</i> , 2013, 336, 37-49.	3.3	148
16	Theistareykir revisited. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	142
17	Ancient recycled mantle lithosphere in the Hawaiian plume: Osmium-Hafnium isotopic evidence from peridotite mantle xenoliths. <i>Earth and Planetary Science Letters</i> , 2007, 257, 259-273.	4.4	137
18	World-wide occurrence of HFSE-depleted mantle. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2177-2182.	3.9	132

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19	Lu-Hf and Sm-Nd isotopic systematics in chondrites and their constraints on the Lu-Hf properties of the Earth. <i>Earth and Planetary Science Letters</i> , 2004, 222, 29-41.	4.4	127
20	Hf-Nd isotope decoupling in the oceanic lithosphere: constraints from spinel peridotites from Oahu, Hawaii. <i>Earth and Planetary Science Letters</i> , 2004, 217, 43-58.	4.4	108
21	Extreme $^{176}\text{Hf}/^{177}\text{Hf}$ in the sub-oceanic mantle. <i>Earth and Planetary Science Letters</i> , 1995, 129, 13-30.	4.4	105
22	Hf-Nd-Sr isotope systematics of garnet pyroxenites from Salt Lake Crater, Oahu, Hawaii: Evidence for a depleted component in Hawaiian volcanism. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2629-2646.	3.9	85
23	Dissolved zirconium and hafnium distributions across a shelf break in the northeastern Atlantic Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3995-4006.	3.9	81
24	A capillary electrophoresis-ICP-MS study of rare earth element complexation by humic acids. <i>Chemical Geology</i> , 2007, 246, 170-180.	3.3	77
25	Carbon Fluxes and Primary Magma CO_2 Contents Along the Global Mid-Ocean Ridge System. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1387-1424.	2.5	74
26	The Hf isotopic composition of ferromanganese nodules and crusts and hydrothermal manganese deposits: Implications for seawater Hf. <i>Earth and Planetary Science Letters</i> , 1997, 151, 91-105.	4.4	71
27	Domains of depleted mantle: New evidence from hafnium and neodymium isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	69
28	Assessing the presence of garnet-pyroxenite in the mantle sources of basalts through combined hafnium-neodymium-thorium isotope systematics. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, n/a-n/a.	2.5	67
29	Lu-Hf and geochemical systematics of recycled ancient oceanic crust: evidence from Roberts Victor eclogites. <i>Contributions To Mineralogy and Petrology</i> , 2005, 148, 707-720.	3.1	66
30	An ancient metasomatic source for the Walvis Ridge basalts. <i>Chemical Geology</i> , 2010, 273, 151-167.	3.3	59
31	Geochemistry and evolution of the calc-alkaline volcanic complex of Santorini, Aegean Sea, Greece. <i>Journal of Volcanology and Geothermal Research</i> , 1988, 34, 283-306.	2.1	56
32	Sr isotope and trace element evidence for the role of continental crust in calc-alkaline volcanism on Santorini and Milos, Aegean Sea, Greece. <i>Earth and Planetary Science Letters</i> , 1983, 63, 273-291.	4.4	55
33	$^{176}\text{Hf}/^{177}\text{Hf}$ Determination in Small Samples by a High-Temperature SIMS Technique. <i>Analytical Chemistry</i> , 1994, 66, 4186-4189.	6.5	50
34	Disequilibrium effects in metal speciation by capillary electrophoresis inductively coupled plasma mass spectrometry (CE-ICP-MS); theory, simulations and experiments. Electronic supplementary information (ESI) available: Computer simulations of Sm-Cit (Animation 1, corresponding with Fig. 3), Sm-HA (Animation 2, corresponding with Fig. 4) and Sm-HA-EDTA (Animation 3) separations. See http://www.rsc.org/suppdata/an/b4/b407162j/ . <i>Analyst</i> , 2004, 129, 731.	3.5	49
35	Isotope and trace element insights into heterogeneity of subridge mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2438-2453.	2.5	49
36	The dynamics of melting beneath Theistareykir, northern Iceland. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	48

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37	Isotope and trace element evidence for depleted lithosphere in the source of enriched Ko^{TM} olau basalts. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 297-312.	3.1	48
38	Capillary electrophoresisâ€“high resolution sector field inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1159, 63-74.	3.7	45
39	Role of ancient, ultra-depleted mantle in Mid-Ocean-Ridge magmatism. <i>Earth and Planetary Science Letters</i> , 2019, 511, 89-98.	4.4	44
40	The composition and distribution of the rejuvenated component across the Hawaiian plume: Hfâ€“Ndâ€“Srâ€“Pb isotope systematics of Kaula lavas and pyroxenite xenoliths. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4458-4478.	2.5	43
41	A case for in vivo massâ€“independent fractionation of mercury isotopes in fish. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	38
42	Determination of neodymiumâ€“fulvic acid binding constants by capillary electrophoresis inductively coupled plasma mass spectrometry (CE-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 235-240.	3.0	37
43	Elemental Systematics in MORB Glasses From the Midâ€“Atlantic Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4236-4259.	2.5	36
44	Humic acid complexation of Th, Hf and Zr in ligand competition experiments: Metal loading and pH effects. <i>Chemical Geology</i> , 2014, 363, 241-249.	3.3	35
45	Mass spectrometry of natural organic phosphorus. <i>Talanta</i> , 2005, 66, 348-358.	5.5	34
46	Title is missing!. <i>Biogeochemistry</i> , 2002, 61, 269-289.	3.5	32
47	Development and evolution of detachment faulting along 50 km of the Midâ€“Atlantic Ridge near 16.5âˆšN. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4692-4711.	2.5	32
48	The Lamontâ€“Doherty Geological Observatory Isolab 54 isotope ratio mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 121, 201-240.	1.8	30
49	Elemental constraints on the amount of recycled crust in the generation of mid-oceanic ridge basalts (MORBs). <i>Science Advances</i> , 2020, 6, eaba2923.	10.3	23
50	Geochemical and isotopic study of a plutonic suite and related early volcanic sequences in the southern Mariana forearc. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 589-604.	2.5	22
51	Ion sources for analysis of inorganic solids and liquids by MS. <i>Analytical Chemistry</i> , 1994, 66, 1079A-1089A.	6.5	21
52	Dispersion effects of laminar flow and spray chamber volume in capillary electrophoresisâ€“inductively coupled plasma-mass spectrometry: a numerical and experimental approach. <i>Journal of Chromatography A</i> , 2003, 1015, 205-218.	3.7	21
53	Constraints on mantle evolution from Ce-Nd-Hf isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 36-53.	3.9	20
54	Mercury bioaccumulation in tilefish from the northeastern Gulf of Mexico 2â€“years after the Deepwater Horizon oil spill: Insights from Hg, C, N and S stable isotopes. <i>Science of the Total Environment</i> , 2019, 666, 828-838.	8.0	18

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55	Ancient refractory asthenosphere revealed by mantle re-melting at the Arctic Mid Atlantic Ridge. <i>Earth and Planetary Science Letters</i> , 2021, 566, 116981.	4.4	18
56	Isotopic constraints on the genesis and evolution of basanitic lavas at Haleakala, Island of Maui, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 195, 201-225.	3.9	15
57	Geochemical Variability Along the Northern East Pacific Rise: Coincident Source Composition and Ridge Segmentation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1889-1911.	2.5	15
58	Comment to ^{206}Pb isotopic analysis of standards and samples using a ^{207}Pb - ^{204}Pb double spike and thallium to correct for mass bias with a double-focusing MC-ICP-MS by Baker et al.. <i>Chemical Geology</i> , 2005, 217, 171-174.	3.3	14
59	PROVENANCE OF ORE METALS IN BASE AND PRECIOUS METAL DEPOSITS OF CENTRAL IDAHO AS INFERRED FROM LEAD ISOTOPES. <i>Economic Geology</i> , 2006, 101, 1063-1077.	3.8	11
60	Petrogenesis of coeval sodic and potassic alkaline magmas at Spanish Peaks, Colorado: Magmatism related to the opening of the Rio Grande rift. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 453-476.	3.9	10
61	Atomic-scale studies on the effect of boundary coherency on stability in twinned Cu. <i>Applied Physics Letters</i> , 2014, 104, 011913.	3.3	9
62	Reconnaissance Lead Isotope Characteristics of the Blackbird Deposit: Implications for the Age and Origin of Cobalt-Copper Mineralization in the Idaho Cobalt Belt, United States. <i>Economic Geology</i> , 2012, 107, 1177-1188.	3.8	8
63	Trace Element and Isotopic Evidence for Recycled Lithosphere from Basalts from 48 to 53°E, Southwest Indian Ridge. <i>Journal of Petrology</i> , 2021, 61, .	2.8	7
64	The Origin of Late Cenozoic Magmatism in the South China Sea and Southeast Asia. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009686.	2.5	7
65	Temporal chemical variations within lowermost jurassic tholeiitic magmas of the Central Atlantic Magmatic Province. <i>Geophysical Monograph Series</i> , 2003, , 163-177.	0.1	6
66	Mantle melting variation and refertilization beneath the Dragon Bone amagmatic segment (53°E SWIR): Major and trace element compositions of peridotites at ridge flanks. <i>Lithos</i> , 2019, 324-325, 325-339.	1.4	5
67	Highly heterogeneous mantle caused by recycling of oceanic lithosphere from the mantle transition zone. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117679.	4.4	2
68	Correction to ^{182}W Domains of depleted mantle: New evidence from hafnium and neodymium isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	1
69	Thorium. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 1-3.	0.1	1
70	Confronting Racism to Advance Our Science. <i>AGU Advances</i> , 2021, 2, e2020AV000296.	5.4	1
71	Thorium. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 1439-1441.	0.1	1
72	G-Cubed: A snapshot today and a look to the future. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	0

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73	High Field Strength Elements. Encyclopedia of Earth Sciences Series, 2016, , 1-3.	0.1	0
74	Thank You to Our 2019 Reviewers. AGU Advances, 2020, 1, e2020AV000181.	5.4	0
75	AGU Advances Goes Online. AGU Advances, 2020, 1, e2019AV000105.	5.4	0
76	Thank You to Our 2020 Peer Reviewers. AGU Advances, 2021, 2, e2021AV000426.	5.4	0
77	High Field Strength Elements. Encyclopedia of Earth Sciences Series, 2018, , 664-666.	0.1	0
78	Thank You to Our 2021 Peer Reviewers. AGU Advances, 2022, 3, .	5.4	0