

Janet M Hergt

List of Publications by Year in descending order

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7854
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#	ARTICLE	IF	CITATIONS
1	lolite: Freeware for the visualisation and processing of mass spectrometric data. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2508.	3.0	2,629
2	Magmatic and Crustal Differentiation History of Granitic Rocks from Hf-O Isotopes in Zircon. <i>Science</i> , 2007, 315, 980-983.	12.6	1,154
3	A Preliminary Appraisal of Seven Natural Zircon Reference Materials for In Situ Hf Isotope Determination. <i>Geostandards and Geoanalytical Research</i> , 2005, 29, 183-195.	1.9	859
4	Improved laser ablation Uâ€Pb zircon geochronology through robust downhole fractionation correction. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	820
5	Zircon Hf-isotope analysis with an excimer laser, depth profiling, ablation of complex geometries, and concomitant age estimation. <i>Chemical Geology</i> , 2004, 209, 121-135.	3.3	813
6	Hafnium isotope evidence for â€conservativeâ€™ element mobility during subduction zone processes. <i>Earth and Planetary Science Letters</i> , 2001, 192, 331-346.	4.4	643
7	Remobilisation of the continental lithosphere by a mantle plume: major-, trace-element, and Sr-, Nd-, and Pb-isotope evidence from picritic and tholeiitic lavas of the Noril'sk District, Siberian Trap, Russia. <i>Contributions To Mineralogy and Petrology</i> , 1993, 114, 171-188.	3.1	356
8	²³⁸ Uâ€ ²³⁰ Th disequilibria, magma petrogenesis, and flux rates beneath the depleted Tonga-Kermadec island arc. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4855-4884.	3.9	355
9	Geochemical variation within the northern Ryukyu Arc: magma source compositions and geodynamic implications. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 263-282.	3.1	343
10	The petrogenesis of Mesozoic Gondwana low-Ti flood basalts. <i>Earth and Planetary Science Letters</i> , 1991, 105, 134-148.	4.4	339
11	Interaction of adakitic melt-peridotite: Implications for the high-Mg# signature of Mesozoic adakitic rocks in the eastern North China Craton. <i>Earth and Planetary Science Letters</i> , 2008, 265, 123-137.	4.4	207
12	In situ Sr-isotope analysis of carbonates by LA-MC-ICP-MS: interference corrections, high spatial resolution and an example from otolith studies. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 22.	3.0	190
13	Geochemical and Isotopic Constraints on the Origin of the Jurassic Dolerites of Tasmania. <i>Journal of Petrology</i> , 1989, 30, 841-883.	2.8	187
14	Strontium, Neodymium and Lead Isotope Analyses of NIST Glass Certified Reference Materials: SRM 610, 612, 614. <i>Geostandards and Geoanalytical Research</i> , 2001, 25, 261-266.	3.1	165
15	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
16	Isotopic and Elemental Imaging of Geological Materials by Laser Ablation Inductively Coupled Plasmaâ€Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 331-343.	1.9	133
17	Destructive plate margin magmatism: Geochemistry and melt generation. <i>Lithos</i> , 1994, 33, 169-188.	1.4	110
18	Pb-Isotope Analyses of USGS Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2000, 24, 33-38.	3.1	102

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19	Petrogenesis and Geochemistry of Archean Komatiites. <i>Journal of Petrology</i> , 2016, 57, 147-184.	2.8	96
20	U-series Isotope Data on Lau Basin Glasses: the Role of Subduction-related Fluids during Melt Generation in Back-arc Basins. <i>Journal of Petrology</i> , 2001, 42, 1449-1470.	2.8	94
21	CellSpace: A module for creating spatially registered laser ablation images within the Iolite freeware environment. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 700.	3.0	94
22	Geochemistry of a hydrothermal sediment core from the OBS vent-field, 21°N East Pacific Rise. <i>Chemical Geology</i> , 1999, 155, 65-75.	3.3	93
23	The Indian Ocean-type isotopic signature in western Pacific marginal basins: Origin and significance. <i>Geophysical Monograph Series</i> , 1995, , 175-197.	0.1	78
24	Pan-African intraplate deformation in the northern Prince Charles Mountains, east Antarctica. <i>Earth and Planetary Science Letters</i> , 2002, 195, 195-210.	4.4	78
25	New insights into the genesis of Indian kimberlites from the Dharwar Craton via in situ Sr isotope analysis of groundmass perovskite. <i>Geology</i> , 2007, 35, 1011.	4.4	78
26	African kimberlites revisited: In situ Sr-isotope analysis of groundmass perovskite. <i>Lithos</i> , 2009, 112, 311-317.	1.4	78
27	The zircon "matrix effect": evidence for an ablation rate control on the accuracy of U-Pb age determinations by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 981-989.	3.0	77
28	A critical evaluation of recent models for Lau-Tonga arc backarc basin magmatic evolution. <i>Chemical Geology</i> , 2007, 245, 9-44.	3.3	74
29	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
30	Visualising mouse neuroanatomy and function by metal distribution using laser ablation-inductively coupled plasma-mass spectrometry imaging. <i>Chemical Science</i> , 2015, 6, 5383-5393.	7.4	69
31	Destructive margin magmatism and the contributions from the mantle wedge and subducted crust. <i>Australian Journal of Earth Sciences</i> , 1991, 38, 577-594.	1.0	68
32	Improving isochron calculations with robust statistics and the bootstrap. <i>Chemical Geology</i> , 2002, 185, 191-204.	3.3	66
33	Hf-Nd isotope variation in Mariana Trough basalts: The importance of "ambient mantle" in the interpretation of subduction zone magmas. <i>Geology</i> , 2012, 40, 539-542.	4.4	64
34	Kimberlites reveal 2.5-billion-year evolution of a deep, isolated mantle reservoir. <i>Nature</i> , 2019, 573, 578-581.	27.8	64
35	The geochemistry of Jurassic dolerites from Portal Peak, Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 1989, 102, 298-305.	3.1	62
36	Application of the 'double spike' technique to Pb-isotope geochronology. <i>Chemical Geology</i> , 1997, 138, 311-321.	3.3	57

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37	Improved in situ isotope analysis of low-Pb materials using LA-MC-ICP-MS with parallel ion counter and Faraday detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1350.	3.0	56
38	Identifying the asthenospheric component of kimberlite magmas from the Dharwar Craton, India. <i>Lithos</i> , 2009, 112, 296-310.	1.4	56
39	Pb- and Nd-isotope systematics of stromatolitic limestones from the 2.7 Ga Ngezi Group of the Belingwe Greenstone Belt: constraints on timing of deposition and provenance. <i>Precambrian Research</i> , 2002, 114, 277-294.	2.7	55
40	A-type magmatism in the Western Lachlan Fold Belt? A study of granites and rhyolites from the Grampians region, Western Victoria. <i>Lithos</i> , 2007, 97, 122-139.	1.4	51
41	Backarc rifting, constructional volcanism and nascent disorganised spreading in the southern Havre Trough backarc rifts (SW Pacific). <i>Journal of Volcanology and Geothermal Research</i> , 2010, 190, 39-57.	2.1	50
42	New geochemical constraints on the origins of MARID and PIC rocks: Implications for mantle metasomatism and mantle-derived potassic magmatism. <i>Lithos</i> , 2018, 318-319, 478-493.	1.4	50
43	Hydrothermal scavenging on the Juan de Fuca Ridge: ²³⁰ Thxs, ¹⁰ Be, and REEs in ridge-flank sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4067-4078.	3.9	47
44	Hf isotopic evidence for small-scale heterogeneity in the mode of mantle wedge enrichment: Southern Havre Trough and South Fiji Basin back arcs. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	47
45	Hydrothermal Fluid Processes and Evolution of the Giant Serra Norte Jaspilite-Hosted Iron Ore Deposits, Carajas Mineral Province, Brazil. <i>Economic Geology</i> , 2013, 108, 739-779.	3.8	47
46	Isotopic dating of an Archean bolide impact horizon, Hamersley basin, Western Australia. <i>Geology</i> , 1998, 26, 47.	4.4	46
47	An investigation of the laser-induced zircon $\delta^{17}\text{O}$ matrix effect™. <i>Chemical Geology</i> , 2016, 438, 11-24.	3.3	44
48	Progressive metasomatism of the mantle by kimberlite melts: Sr ⁸⁷ / _{Sr⁸⁶} , Nd ¹⁴³ / _{Nd¹⁴²} , Hf ¹⁷⁷ / _{Hf¹⁷⁶} , Pb isotope compositions of MARID and PIC minerals. <i>Earth and Planetary Science Letters</i> , 2019, 509, 15-26.	4.4	43
49	Continental setting inferred for emplacement of the 2.9–2.7 Ga Belingwe Greenstone Belt, Zimbabwe. <i>Geology</i> , 2003, 31, 295.	4.4	39
50	The big crunch: Physical and chemical expressions of arc/continent collision in the Western Bismarck arc. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 190, 11-24.	2.1	39
51	Melt inclusion Pb-isotope analysis by LA-MC-ICPMS: Assessment of analytical performance and application to OIB genesis. <i>Chemical Geology</i> , 2011, 289, 210-223.	3.3	39
52	Coats Land dolerites and the generation of Antarctic continental flood basalts. <i>Geological Society Special Publication</i> , 1992, 68, 185-208.	1.3	37
53	On the origin of Tasmanian dolerites. <i>Australian Journal of Earth Sciences</i> , 2001, 48, 543-549.	1.0	37
54	Petrogenesis of a Hybrid Cluster of Evolved Kimberlites and Ultramafic Lamprophyres in the Kuusamo Area, Finland. <i>Journal of Petrology</i> , 2019, 60, 2025-2050.	2.8	37

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55	⁴⁰ Ar/ ³⁹ Ar constraints on the timing and origin of Miocene leucitite volcanism in southeastern Australia. <i>Australian Journal of Earth Sciences</i> , 2008, 55, 407-418.	1.0	36
56	Towards a Method for Quantitative LA-ICP-MS Imaging of Multi-Phase Assemblages: Mineral Identification and Analysis Correction Procedures. <i>Geostandards and Geoanalytical Research</i> , 2014, 38, 253-263.	3.1	36
57	Kimberlite-related metasomatism recorded in MARID and PIC mantle xenoliths. <i>Mineralogy and Petrology</i> , 2018, 112, 71-84.	1.1	34
58	A spectrum of potentially diamondiferous lamproites and minettes from the Jharia coalfield, eastern India. <i>Journal of Volcanology and Geothermal Research</i> , 1992, 50, 55-83.	2.1	33
59	Discussion and Reply: Evaluation of petrogenetic models for Lachlan Fold Belt granitoids: Implications for crustal architecture and tectonic models. <i>Australian Journal of Earth Sciences</i> , 1999, 46, 827-836.	1.0	33
60	Mantle heterogeneity beneath the Cenozoic volcanic provinces of central Victoria inferred from trace-element and Sr, Nd, Pb and Hf isotope data. <i>Australian Journal of Earth Sciences</i> , 2005, 52, 243-260.	1.0	30
61	Evolution of Pre-1.8Ga basement rocks in the western Mt Isa Inlier, northeastern Australia—Insights from SHRIMP U-Pb dating and in-situ Lu-Hf analysis of zircons. <i>Precambrian Research</i> , 2008, 163, 159-173.	2.7	30
62	Subduction zone Hf-anomalies: Mantle messenger, melting artefact or crustal process?. <i>Earth and Planetary Science Letters</i> , 2011, 304, 231-239.	4.4	30
63	The role of lithospheric heterogeneity on the composition of kimberlite magmas from a single field: The case of Kaavi-Kuopio, Finland. <i>Lithos</i> , 2020, 354-355, 105333.	1.4	29
64	Pedothem carbonates reveal anomalous North American atmospheric circulation 70,000–55,000 years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 919-924.	7.1	27
65	12,000-Year-old Aboriginal rock art from the Kimberley region, Western Australia. <i>Science Advances</i> , 2020, 6, eaay3922.	10.3	26
66	Uncertainties on lead isotope analyses: deconvolution in the double-spike method. <i>Chemical Geology</i> , 1998, 148, 95-104.	3.3	24
67	Isotopic analyses of clinopyroxenes demonstrate the effects of kimberlite melt metasomatism upon the lithospheric mantle. <i>Lithos</i> , 2020, 370-371, 105595.	1.4	23
68	Evidence for subduction-related signatures in the southern African lithosphere from the N-O isotopic composition of metasomatic mantle minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 237-257.	3.9	22
69	The use of known Fe content as a flux monitor in neutron activation analysis. <i>Chemical Geology</i> , 1989, 78, 151-158.	3.3	21
70	Ages for Australia's oldest rock paintings. <i>Nature Human Behaviour</i> , 2021, 5, 310-318.	12.0	21
71	Mineral deposition systems at rock art sites, Kimberley, Northern Australia – Field observations. <i>Journal of Archaeological Science: Reports</i> , 2017, 14, 340-352.	0.5	19
72	Modelling Isotopic Responses to Disequilibrium Melting in Granitic Systems. <i>Journal of Petrology</i> , 2018, 59, 87-113.	2.8	18

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73	A comparison of geochronological methods commonly applied to kimberlites and related rocks: Three case studies from Finland. <i>Chemical Geology</i> , 2020, 558, 119899.	3.3	16
74	New developments in the radiocarbon dating of mud wasp nests. <i>Quaternary Geochronology</i> , 2019, 51, 140-154.	1.4	15
75	Perturbation of the deep-Earth carbon cycle in response to the Cambrian Explosion. <i>Science Advances</i> , 2022, 8, eabj1325.	10.3	14
76	Petrogenesis of granitoids from the Lachlan Fold Belt, southeastern Australia: The role of disequilibrium melting. <i>Gondwana Research</i> , 2020, 79, 87-109.	6.0	13
77	Strontium Isotope Analysis of Kimberlitic Groundmass Perovskite via LA-MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 071117031212001-???	1.9	12
78	The late crystallization stages of low-Ti, low-Fe tholeiitic magmas: Insights from evolved Antarctic and Tasmanian rocks. <i>Lithos</i> , 2014, 188, 72-83.	1.4	12
79	Portrait of a reference material: Zircon production in the Middledale Gabbroic Diorite, Australia, and its implications for the TEMORA standard. <i>Chemical Geology</i> , 2015, 402, 140-152.	3.3	12
80	GGR Critical Review of Analytical Developments in 2003. <i>Geostandards and Geoanalytical Research</i> , 2005, 29, 5-52.	1.9	10
81	The geochemistry, petrogenesis and age of an unusual alkaline intrusion in the western Pilbara craton, Western Australia. <i>Lithos</i> , 2009, 112, 419-428.	1.4	10
82	Comment on: "Enriched mantle - Dupal signature in the genesis of the Jurassic Ferrar tholeiites from Prince Albert Mountains (Victoria Land, Antarctica)" by Antonini P. et al. (Contributions to Tj ETQq0 0 0 rgBT /Overlock 10 Tf,50 382 Td 240-244.	3.1	9
83	PINK LANTHANITE-(Nd) FROM WHITIANGA QUARRY, COROMANDEL PENINSULA, NEW ZEALAND. <i>Canadian Mineralogist</i> , 2007, 45, 1389-1396.	1.0	9
84	Granite-Ågreenstone connection in western Victoria: an example from the Bushy Creek Igneous Complex. <i>Australian Journal of Earth Sciences</i> , 2007, 54, 975-990.	1.0	9
85	Mantle-like Hf Nd isotope signatures in ~3.5ÅGa greenstones: No evidence for Hadean crust beneath the East Pilbara Craton. <i>Chemical Geology</i> , 2021, 576, 120273.	3.3	8
86	Comment on: ÅGrowth and recycling of early Archaean continental crust: geochemical evidence from the Coonterunah and Warrawoona groups, Pilbara Craton, AustraliaÅ™ by Green, M.G. et al. (Tectonophysics 322, 69-88). <i>Tectonophysics</i> , 2002, 344, 289-292.	2.2	7
87	Thallium isotopic composition of phlogopite in kimberlite-hosted MARID and PIC mantle xenoliths. <i>Chemical Geology</i> , 2020, 531, 119347.	3.3	7
88	An integrated mass spectrometry imaging and digital pathology workflow for objective detection of colorectal tumours by unique atomic signatures. <i>Chemical Science</i> , 2021, 12, 10321-10333.	7.4	7
89	GGR Critical Review of Analytical Developments in 2004?2005. <i>Geostandards and Geoanalytical Research</i> , 2006, 30, 141-142.	1.9	5
90	Construction of 3D native elemental maps for large biological specimens using LA-ICP-MS coupled with X-ray tomography. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 671-678.	3.0	5

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91	GGR Critical Review of Analytical Developments in 2006-2007. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 397-398.	3.1	2
92	Continental setting inferred for emplacement of the 2.9–2.7 Ga Belingwe Greenstone Belt, Zimbabwe: Comment and Reply. <i>Geology</i> , 2003, 31, e31-e31.	4.4	1
93	GGR Critical Review of Analytical Developments in 2008–2009: An Introduction. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 325-326.	3.1	1
94	Magmatism and the causes of continental break-up. <i>Chemical Geology</i> , 1993, 109, 356-359.	3.3	0