

# Janet M Hergt

## List of Publications by Year in descending order

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94  
papers

12,419  
citations

57681

46  
h-index

43601

95  
g-index

98  
all docs

98  
docs citations

98  
times ranked

8772  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbation of the deep-Earth carbon cycle in response to the Cambrian Explosion. <i>Science Advances</i> , 2022, 8, eabj1325.	4.7	14
2	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.	3.7	7
3	Ages for Australia's oldest rock paintings. <i>Nature Human Behaviour</i> , 2021, 5, 310-318.	6.2	21
4	Mantle-like Hf Nd isotope signatures in ~3.5 Ga greenstones: No evidence for Hadean crust beneath the East Pilbara Craton. <i>Chemical Geology</i> , 2021, 576, 120273.	1.4	8
5	Thallium isotopic composition of phlogopite in kimberlite-hosted MARID and PIC mantle xenoliths. <i>Chemical Geology</i> , 2020, 531, 119347.	1.4	7
6	Petrogenesis of granitoids from the Lachlan Fold Belt, southeastern Australia: The role of disequilibrium melting. <i>Gondwana Research</i> , 2020, 79, 87-109.	3.0	13
7	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.	0.6	29
8	A comparison of geochronological methods commonly applied to kimberlites and related rocks: Three case studies from Finland. <i>Chemical Geology</i> , 2020, 558, 119899.	1.4	16
9	Isotopic analyses of clinopyroxenes demonstrate the effects of kimberlite melt metasomatism upon the lithospheric mantle. <i>Lithos</i> , 2020, 370-371, 105595.	0.6	23
10	12,000-Year-old Aboriginal rock art from the Kimberley region, Western Australia. <i>Science Advances</i> , 2020, 6, eaay3922.	4.7	26
11	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.	1.6	5
12	New developments in the radiocarbon dating of mud wasp nests. <i>Quaternary Geochronology</i> , 2019, 51, 140-154.	0.6	15
13	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.	1.6	22
14	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.	1.1	37
15	Kimberlites reveal 2.5-billion-year evolution of a deep, isolated mantle reservoir. <i>Nature</i> , 2019, 573, 578-581.	13.7	64
16	Progressive metasomatism of the mantle by kimberlite melts: Sr-Nd-Hf-Pb isotope compositions of MARID and PIC minerals. <i>Earth and Planetary Science Letters</i> , 2019, 509, 15-26.	1.8	43
17	Modelling Isotopic Responses to Disequilibrium Melting in Granitic Systems. <i>Journal of Petrology</i> , 2018, 59, 87-113.	1.1	18
18	Kimberlite-related metasomatism recorded in MARID and PIC mantle xenoliths. <i>Mineralogy and Petrology</i> , 2018, 112, 71-84.	0.4	34

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19	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.	0.6	50
20	Mineral deposition systems at rock art sites, Kimberley, Northern Australia – Field observations. <i>Journal of Archaeological Science: Reports</i> , 2017, 14, 340-352.	0.2	19
21	An investigation of the laser-induced zircon –matrix effect™. <i>Chemical Geology</i> , 2016, 438, 11-24.	1.4	44
22	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.	3.3	27
23	Petrogenesis and Geochemistry of Archean Komatiites. <i>Journal of Petrology</i> , 2016, 57, 147-184.	1.1	96
24	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.	3.7	69
25	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.	1.4	12
26	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.	1.7	36
27	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.	0.6	12
28	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.	1.6	77
29	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.	1.8	47
30	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.	1.6	94
31	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.	2.0	64
32	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.	1.0	47
33	Iolite: Freeware for the visualisation and processing of mass spectrometric data. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2508.	1.6	2,629
34	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.	1.4	39
35	Subduction zone Hf-anomalies: Mantle messenger, melting artefact or crustal process?. <i>Earth and Planetary Science Letters</i> , 2011, 304, 231-239.	1.8	30
36	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.	0.8	39

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37	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.	0.8	50
38	GGR Critical Review of Analytical Developments in 2008-2009: An Introduction. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 325-326.	1.7	1
39	Improved laser ablation U-Pb zircon geochronology through robust downhole fractionation correction. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	820
40	Identifying the asthenospheric component of kimberlite magmas from the Dharwar Craton, India. <i>Lithos</i> , 2009, 112, 296-310.	0.6	56
41	African kimberlites revisited: In situ Sr-isotope analysis of groundmass perovskite. <i>Lithos</i> , 2009, 112, 311-317.	0.6	78
42	The geochemistry, petrogenesis and age of an unusual alkaline intrusion in the western Pilbara craton, Western Australia. <i>Lithos</i> , 2009, 112, 419-428.	0.6	10
43	In situ Pb-isotope analysis of pyrite by laser ablation (multi-collector and quadrupole) ICPMS. <i>Chemical Geology</i> , 2009, 262, 344-354.	1.4	74
44	GGR Critical Review of Analytical Developments in 2006-2007. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 397-398.	1.7	2
45	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.	1.2	30
46	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.	1.8	207
47	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.	1.6	151
48	<sup>40</sup> Ar/ <sup>39</sup> Ar constraints on the timing and origin of Miocene leucitic volcanism in southeastern Australia. <i>Australian Journal of Earth Sciences</i> , 2008, 55, 407-418.	0.4	36
49	Magmatic and Crustal Differentiation History of Granitic Rocks from Hf-O Isotopes in Zircon. <i>Science</i> , 2007, 315, 980-983.	6.0	1,154
50	A critical evaluation of recent models for Lau-Tonga arc-backarc basin magmatic evolution. <i>Chemical Geology</i> , 2007, 245, 9-44.	1.4	74
51	PINK LANTHANITE-(Nd) FROM WHITIANGA QUARRY, COROMANDEL PENINSULA, NEW ZEALAND. <i>Canadian Mineralogist</i> , 2007, 45, 1389-1396.	0.3	9
52	Granite-Âgreenstone connection in western Victoria: an example from the Bushy Creek Igneous Complex. <i>Australian Journal of Earth Sciences</i> , 2007, 54, 975-990.	0.4	9
53	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.	2.0	78
54	Isotopic and Elemental Imaging of Geological Materials by Laser Ablation Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 331-343.	2.0	133

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55	Strontium Isotope Analysis of Kimberlitic Groundmass Perovskite via LA-MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 071117031212001-???	2.0	12
56	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.	0.6	51
57	GGR Critical Review of Analytical Developments in 2004?2005. <i>Geostandards and Geoanalytical Research</i> , 2006, 30, 141-142.	2.0	5
58	GGR Critical Review of Analytical Developments in 2003. <i>Geostandards and Geoanalytical Research</i> , 2005, 29, 5-52.	2.0	10
59	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.	2.0	859
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.	0.4	30
61	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.	1.6	56
62	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.	1.6	190
63	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.	1.4	813
64	Continental setting inferred for emplacement of the 2.9-2.7 Ga Belingwe Greenstone Belt, Zimbabwe. <i>Geology</i> , 2003, 31, 295.	2.0	39
65	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.	2.0	1
66	Improving isochron calculations with robust statistics and the bootstrap. <i>Chemical Geology</i> , 2002, 185, 191-204.	1.4	66
67	Pan-African intraplate deformation in the northern Prince Charles Mountains, east Antarctica. <i>Earth and Planetary Science Letters</i> , 2002, 195, 195-210.	1.8	78
68	Comment on: "Growth and recycling of early Archaean continental crust: geochemical evidence from the Coonterunah and Warrawoona groups, Pilbara Craton, Australia" by Green, M.G. et al. ( <i>Tectonophysics</i> 322, 69-88). <i>Tectonophysics</i> , 2002, 344, 289-292.	0.9	7
69	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.	1.2	55
70	Hafnium isotope evidence for "conservative" element mobility during subduction zone processes. <i>Earth and Planetary Science Letters</i> , 2001, 192, 331-346.	1.8	643
71	On the origin of Tasmanian dolerites. <i>Australian Journal of Earth Sciences</i> , 2001, 48, 543-549.	0.4	37
72	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.	1.7	165

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73	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.	1.1	94
74	Pb-Isotope Analyses of USGS Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2000, 24, 33-38.	1.7	102
75	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. ( <i>Contributions to Mineralogy and Petrology</i> , 2000, 140, 263-282).	1.2	9
76	Geochemical variation within the northern Ryukyu Arc: magma source compositions and geodynamic implications. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 263-282.	1.2	343
77	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.	0.4	33
78	Geochemistry of a hydrothermal sediment core from the OBS vent-field, 21°N East Pacific Rise. <i>Chemical Geology</i> , 1999, 155, 65-75.	1.4	93
79	Uncertainties on lead isotope analyses: deconvolution in the double-spike method. <i>Chemical Geology</i> , 1998, 148, 95-104.	1.4	24
80	Isotopic dating of an Archean bolide impact horizon, Hamersley basin, Western Australia. <i>Geology</i> , 1998, 26, 47.	2.0	46
81	Hydrothermal scavenging on the Juan de Fuca Ridge: <sup>230</sup> Thxs, <sup>10</sup> Be, and REEs in ridge-flank sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4067-4078.	1.6	47
82	<sup>238</sup> Ui— <sup>230</sup> Th disequilibria, magma petrogenesis, and flux rates beneath the depleted Tonga-Kermadec island arc. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4855-4884.	1.6	355
83	Application of the 'double spike' technique to Pb-isotope geochronology. <i>Chemical Geology</i> , 1997, 138, 311-321.	1.4	57
84	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
85	Destructive plate margin magmatism: Geochemistry and melt generation. <i>Lithos</i> , 1994, 33, 169-188.	0.6	110
86	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.	1.2	356
87	Magmatism and the causes of continental break-up. <i>Chemical Geology</i> , 1993, 109, 356-359.	1.4	0
88	Coats Land dolerites and the generation of Antarctic continental flood basalts. <i>Geological Society Special Publication</i> , 1992, 68, 185-208.	0.8	37
89	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.	0.8	33
90	The petrogenesis of Mesozoic Gondwana low-Ti flood basalts. <i>Earth and Planetary Science Letters</i> , 1991, 105, 134-148.	1.8	339

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91	Destructive margin magmatism and the contributions from the mantle wedge and subducted crust. Australian Journal of Earth Sciences, 1991, 38, 577-594.	0.4	68
92	Geochemical and Isotopic Constraints on the Origin of the Jurassic Dolerites of Tasmania. Journal of Petrology, 1989, 30, 841-883.	1.1	187
93	The geochemistry of Jurassic dolerites from Portal Peak, Antarctica. Contributions To Mineralogy and Petrology, 1989, 102, 298-305.	1.2	62
94	The use of known Fe content as a flux monitor in neutron activation analysis. Chemical Geology, 1989, 78, 151-158.	1.4	21