Janet M Hergt

List of Publications by Year
in descending order

94 papers	12,419 citations	50276 46 h-index	38395 95 g-index
98 all docs	98 docs citations	98 times ranked	7854 citing authors

#	Article	IF	Citations
1	Perturbation of the deep-Earth carbon cycle in response to the Cambrian Explosion. Science Advances, 2022, 8, eabj1325.	10.3	14
2	An integrated mass spectrometry imaging and digital pathology workflow for objective detection of colorectal tumours by unique atomic signatures. Chemical Science, 2021, 12, 10321-10333.	7.4	7
3	Ages for Australiaâ€™s oldest rock paintings. Nature Human Behaviour, 2021, 5, 310-318.	12.0	21
4	Mantle-like Hf Nd isotope signatures in ~3.5ÂGa greenstones: No evidence for Hadean crust beneath the East Pilbara Craton. Chemical Geology, 2021, 576, 120273.	3.3	8
5	Thallium isotopic composition of phlogopite in kimberlite-hosted MARID and PIC mantle xenoliths. Chemical Geology, 2020, 531, 119347.	3.3	7
6	Petrogenesis of granitoids from the Lachlan Fold Belt, southeastern Australia: The role of disequilibrium melting. Gondwana Research, 2020, 79, 87-109.	6.0	13
7	The role of lithospheric heterogeneity on the composition of kimberlite magmas from a single field: The case of Kaavi-Kuopio, Finland. Lithos, 2020, 354-355, 105333.	1.4	29
8	A comparison of geochronological methods commonly applied to kimberlites and related rocks: Three case studies from Finland. Chemical Geology, 2020, 558, 119899.	3.3	16
9	Isotopic analyses of clinopyroxenes demonstrate the effects of kimberlite melt metasomatism upon the lithospheric mantle. Lithos, 2020, 370-371, 105595.	1.4	23
10	12,000-Year-old Aboriginal rock art from the Kimberley region, Western Australia. Science Advances, 2020, 6, eaay3922.	10.3	26
11	Construction of 3D native elemental maps for large biological specimens using LA-ICP-MS coupled with X-ray tomography. Journal of Analytical Atomic Spectrometry, 2020, 35, 671-678.	3.0	5
12	New developments in the radiocarbon dating of mud wasp nests. Quaternary Geochronology, 2019, 51, 140-154.	1.4	15
13	Evidence for subduction-related signatures in the southern African lithosphere from the N-O isotopic composition of metasomatic mantle minerals. Geochimica Et Cosmochimica Acta, 2019, 266, 237-257.	3.9	22
14	Petrogenesis of a Hybrid Cluster of Evolved Kimberlites and Ultramafic Lamprophyres in the Kuusamo Area, Finland. Journal of Petrology, 2019, 60, 2025-2050.	2.8	37
15	Kimberlites reveal 2.5-billion-year evolution of a deep, isolated mantle reservoir. Nature, 2019, 573, 578-581.	27.8	64
16	Progressive metasomatism of the mantle by kimberlite melts: Srâ€“Ndâ€“Hfâ€“Pb isotope compositions of MARID and PIC minerals. Earth and Planetary Science Letters, 2019, 509, 15-26.	4.4	43
17	Modelling Isotopic Responses to Disequilibrium Melting in Granitic Systems. Journal of Petrology, 2018, 59, 87-113.	2.8	18
18	Kimberlite-related metasomatism recorded in MARID and PIC mantle xenoliths. Mineralogy and Petrology, 2018, 112, 71-84.	1.1	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. Lithos, 2018, 318-319, 478-493.	1.4	50
20	Mineral deposition systems at rock art sites, Kimberley, Northern Australia â€" Field observations. Journal of Archaeological Science: Reports, 2017, 14, 340-352.	0.5	19
21	An investigation of the laser-induced zircon â€˜matrix effectâ€™. Chemical Geology, 2016, 438, 11-24.	3.3	44
22	Pedothem carbonates reveal anomalous North American atmospheric circulation 70,000â€“55,000 years ago. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 919-924.	7.1	27
23	Petrogenesis and Geochemistry of Archean Komatiites. Journal of Petrology, 2016, 57, 147-184.	2.8	96
24	Visualising mouse neuroanatomy and function by metal distribution using laser ablation-inductively coupled plasma-mass spectrometry imaging. Chemical Science, 2015, 6, 5383-5393.	7.4	69
25	Portrait of a reference material: Zircon production in the Middledale Gabbroic Diorite, Australia, and its implications for the TEMORA standard. Chemical Geology, 2015, 402, 140-152.	3.3	12
26	Towards a Method for Quantitative <scp>LA</scp>â€<scp>ICP</scp>â€<scp>MS</scp> Imaging of Multiâ€Phase Assemblages: Mineral Identification and Analysis Correction Procedures. Geostandards and Geoanalytical Research, 2014, 38, 253-263.	3.1	36
27	The late crystallization stages of low-Ti, low-Fe tholeiitic magmas: Insights from evolved Antarctic and Tasmanian rocks. Lithos, 2014, 188, 72-83.	1.4	12
28	The zircon â€˜matrix effectâ€™: evidence for an ablation rate control on the accuracy of Uâ€“Pb age determinations by LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2014, 29, 981-989.	3.0	77
29	Hydrothermal Fluid Processes and Evolution of the Giant Serra Norte Jaspilite-Hosted Iron Ore Deposits, Carajas Mineral Province, Brazil. Economic Geology, 2013, 108, 739-779.	3.8	47
30	CellSpace: A module for creating spatially registered laser ablation images within the Iolite freeware environment. Journal of Analytical Atomic Spectrometry, 2012, 27, 700.	3.0	94
31	Hf-Nd isotope variation in Mariana Trough basalts: The importance of â€œambient mantleâ€•in the interpretation of subduction zone magmas. Geology, 2012, 40, 539-542.	4.4	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. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	47
33	Iolite: Freeware for the visualisation and processing of mass spectrometric data. Journal of Analytical Atomic Spectrometry, 2011, 26, 2508.	3.0	2,629
34	Melt inclusion Pb-isotope analysis by LAâ€“MC-ICPMS: Assessment of analytical performance and application to OIB genesis. Chemical Geology, 2011, 289, 210-223.	3.3	39
35	Subduction zone Hf-anomalies: Mantle messenger, melting artefact or crustal process?. Earth and Planetary Science Letters, 2011, 304, 231-239.	4.4	30
36	The big crunch: Physical and chemical expressions of arc/continent collision in the Western Bismarck arc. Journal of Volcanology and Geothermal Research, 2010, 190, 11-24.	2.1	39

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37	Backarc rifting, constructional volcanism and nascent disorganised spreading in the southern Havre Trough backarc rifts (SW Pacific). Journal of Volcanology and Geothermal Research, 2010, 190, 39-57.	2.1	50
38	GGR Critical Review of Analytical Developments in 2008â€“2009: An Introduction. Geostandards and Geoanalytical Research, 2010, 34, 325-326.	3.1	1
39	Improved laser ablation Uâ€Pb zircon geochronology through robust downhole fractionation correction. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	820
40	Identifying the asthenospheric component of kimberlite magmas from the Dharwar Craton, India. Lithos, 2009, 112, 296-310.	1.4	56
41	African kimberlites revisited: In situ Sr-isotope analysis of groundmass perovskite. Lithos, 2009, 112, 311-317.	1.4	78
42	The geochemistry, petrogenesis and age of an unusual alkaline intrusion in the western Pilbara craton, Western Australia. Lithos, 2009, 112, 419-428.	1.4	10
43	In situ Pb-isotope analysis of pyrite by laser ablation (multi-collector and quadrupole) ICPMS. Chemical Geology, 2009, 262, 344-354.	3.3	74
44	GGR Critical Review of Analytical Developments in 2006-2007. Geostandards and Geoanalytical Research, 2008, 32, 397-398.	3.1	2
45	Evolution of Pre-1.8Ga basement rocks in the western Mt Isa Inlier, northeastern Australiaâ€”Insights from SHRIMP Uâ€“Pb dating and in-situ Luâ€“Hf analysis of zircons. Precambrian Research, 2008, 163, 159-173.	2.7	30
46	Interaction of adakitic melt-peridotite: Implications for the high-Mg# signature of Mesozoic adakitic rocks in the eastern North China Craton. Earth and Planetary Science Letters, 2008, 265, 123-137.	4.4	207
47	Age and pyrite Pb-isotopic composition of the giant Sukhoi Log sediment-hosted gold deposit, Russia. Geochimica Et Cosmochimica Acta, 2008, 72, 2377-2391.	3.9	151
48	⁴⁰Ar/³⁹Ar constraints on the timing and origin of Miocene leucitite volcanism in southeastern Australia. Australian Journal of Earth Sciences, 2008, 55, 407-418.	1.0	36
49	Magmatic and Crustal Differentiation History of Granitic Rocks from Hf-O Isotopes in Zircon. Science, 2007, 315, 980-983.	12.6	1,154
50	A critical evaluation of recent models for Lauâ€“Tonga arcâ€“backarc basin magmatic evolution. Chemical Geology, 2007, 245, 9-44.	3.3	74
51	PINK LANTHANITE-(Nd) FROM WHITIANGA QUARRY, COROMANDEL PENINSULA, NEW ZEALAND. Canadian Mineralogist, 2007, 45, 1389-1396.	1.0	9
52	GraniteÂâ€“Âgreenstone connection in western Victoria: an example from the Bushy Creek Igneous Complex. Australian Journal of Earth Sciences, 2007, 54, 975-990.	1.0	9
53	New insights into the genesis of Indian kimberlites from the Dharwar Craton via in situ Sr isotope analysis of groundmass perovskite. Geology, 2007, 35, 1011.	4.4	78
54	Isotopic and Elemental Imaging of Geological Materials by Laser Ablation Inductively Coupled Plasmaâ€Mass Spectrometry. Geostandards and Geoanalytical Research, 2007, 31, 331-343.	1.9	133

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55	Strontium Isotope Analysis of Kimberlitic Groundmass Perovskite via LA-MC-ICP-MS. Geostandards and Geoanalytical Research, 2007, 31, 071117031212001-???.	1.9	12
56	A-type magmatism in the Western Lachlan Fold Belt? A study of granites and rhyolites from the Grampians region, Western Victoria. Lithos, 2007, 97, 122-139.	1.4	51
57	GGR Critical Review of Analytical Developments in 2004?2005. Geostandards and Geoanalytical Research, 2006, 30, 141-142.	1.9	5
58	GGR Critical Review of Analytical Developments in 2003. Geostandards and Geoanalytical Research, 2005, 29, 5-52.	1.9	10
59	A Preliminary Appraisal of Seven Natural Zircon Reference Materials for In Situ Hf Isotope Determination. Geostandards and Geoanalytical Research, 2005, 29, 183-195.	1.9	859
60	Mantle heterogeneity beneath the Cenozoic volcanic provinces of central Victoria inferred from trace-element and Sr, Nd, Pb and Hf isotope data. Australian Journal of Earth Sciences, 2005, 52, 243-260.	1.0	30
61	Improved in situ isotope analysis of low-Pb materials using LA-MC-ICP-MS with parallel ion counter and Faraday detection. Journal of Analytical Atomic Spectrometry, 2005, 20, 1350.	3.0	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. Journal of Analytical Atomic Spectrometry, 2005, 20, 22.	3.0	190
63	Zircon Hf-isotope analysis with an excimer laser, depth profiling, ablation of complex geometries, and concomitant age estimation. Chemical Geology, 2004, 209, 121-135.	3.3	813
64	Continental setting inferred for emplacement of the 2.9â€“2.7 Ga Belingwe Greenstone Belt, Zimbabwe. Geology, 2003, 31, 295.	4.4	39
65	Continental setting inferred for emplacement of the 2.9â€“2.7 Ga Belingwe Greenstone Belt, Zimbabwe: Comment and Reply. Geology, 2003, 31, e31-e31.	4.4	1
66	Improving isochron calculations with robust statistics and the bootstrap. Chemical Geology, 2002, 185, 191-204.	3.3	66
67	Pan-African intraplate deformation in the northern Prince Charles Mountains, east Antarctica. Earth and Planetary Science Letters, 2002, 195, 195-210.	4.4	78
68	Comment on: â€˜Growth and recycling of early Archaean continental crust: geochemical evidence from the Coonterunah and Warrawoona groups, Pilbara Craton, Australiaâ€™ by Green, M.G. et al. (Tectonophysics 322, 69-88). Tectonophysics, 2002, 344, 289-292.	2.2	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. Precambrian Research, 2002, 114, 277-294.	2.7	55
70	Hafnium isotope evidence for â€˜conservativeâ€™ element mobility during subduction zone processes. Earth and Planetary Science Letters, 2001, 192, 331-346.	4.4	643
71	On the origin of Tasmanian dolerites. Australian Journal of Earth Sciences, 2001, 48, 543-549.	1.0	37
72	Strontium, Neodymium and Lead Isotope Analyses of NIST Glass Certified Reference Materials: SRM 610, 612, 614. Geostandards and Geoanalytical Research, 2001, 25, 261-266.	3.1	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. Journal of Petrology, 2001, 42, 1449-1470.	2.8	94
74	Pb-Isotope Analyses of USGS Reference Materials. Geostandards and Geoanalytical Research, 2000, 24, 33-38.	3.1	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. (Contributions to) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 240-244.	3.1	9
76	Geochemical variation within the northern Ryukyu Arc: magma source compositions and geodynamic implications. Contributions To Mineralogy and Petrology, 2000, 140, 263-282.	3.1	343
77	Discussion and Reply: Evaluation of petrogenetic models for Lachlan Fold Belt granitoids: Implications for crustal architecture and tectonic models. Australian Journal of Earth Sciences, 1999, 46, 827-836.	1.0	33
78	Geochemistry of a hydrothermal sediment core from the OBS vent-field, 21Â°N East Pacific Rise. Chemical Geology, 1999, 155, 65-75.	3.3	93
79	Uncertainties on lead isotope analyses:deconvolution in the double-spike method. Chemical Geology, 1998, 148, 95-104.	3.3	24
80	Isotopic dating of an Archean bolide impact horizon, Hamersley basin, Western Australia. Geology, 1998, 26, 47.	4.4	46
81	Hydrothermal scavenging on the Juan de Fuca Ridge: 230Thxs, 10Be, and REEs in ridge-flank sediments. Geochimica Et Cosmochimica Acta, 1997, 61, 4067-4078.	3.9	47
82	238Uî—¸230Th disequilibria, magma petrogenesis, and flux rates beneath the depleted Tonga-Kermadec island arc. Geochimica Et Cosmochimica Acta, 1997, 61, 4855-4884.	3.9	355
83	Application of the `double spike' technique to Pb-isotope geochronology. Chemical Geology, 1997, 138, 311-321.	3.3	57
84	The Indian Ocean-type isotopic signature in western Pacific marginal basins: Origin and significance. Geophysical Monograph Series, 1995, , 175-197.	0.1	78
85	Destructive plate margin magmatism: Geochemistry and melt generation. Lithos, 1994, 33, 169-188.	1.4	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. Contributions To Mineralogy and Petrology, 1993, 114, 171-188.	3.1	356
87	Magmatism and the causes of continental break-up. Chemical Geology, 1993, 109, 356-359.	3.3	0
88	Coats Land dolerites and the generation of Antarctic continental flood basalts. Geological Society Special Publication, 1992, 68, 185-208.	1.3	37
89	A spectrum of potentially diamondiferous lamproites and minettes from the Jharia coalfield, eastern India. Journal of Volcanology and Geothermal Research, 1992, 50, 55-83.	2.1	33
90	The petrogenesis of Mesozoic Gondwana low-Ti flood basalts. Earth and Planetary Science Letters, 1991, 105, 134-148.	4.4	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.	1.0	68
92	Geochemical and Isotopic Constraints on the Origin of the Jurassic Dolerites of Tasmania. Journal of Petrology, 1989, 30, 841-883.	2.8	187
93	The geochemistry of Jurassic dolerites from Portal Peak, Antarctica. Contributions To Mineralogy and Petrology, 1989, 102, 298-305.	3.1	62
94	The use of known Fe content as a flux monitor in neutron activation analysis. Chemical Geology, 1989, 78, 151-158.	3.3	21