

Matthew Horstwood

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

6,927
citations

35
h-index

79
g-index

79
ext. papers

7,998
ext. citations

4.3
avg, IF

5.34
L-index

#	Paper	IF	Citations
75	Particle Detectors Used in Isotope Ratio Mass Spectrometry, with Applications in Geology, Environmental Science, and Nuclear Forensics 2021 , 963-982		
74	Geochemical evidence of Milankovitch cycles in Atlantic Ocean ferromanganese crusts. <i>Earth and Planetary Science Letters</i> , 2021 , 553, 116651	5.3	1
73	Radiometric Dating (U-Th-Pb) 2021 , 26-49		
72	Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) U/Pb carbonate geochronology: strategies, progress, and limitations. <i>Geochronology</i> , 2020 , 2, 33-61	3.8	56
71	Particle Detectors Used in Isotope Ratio Mass Spectrometry, with Applications in Geology, Environmental Science, and Nuclear Forensics 2020 , 1-20		
70	Changing nutrient cycling in Lake Baikal, the world's oldest lake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27211-27217	11.5	11
69	Development of a Correlated Fe-Mn Crust Stratigraphy Using Pb and Nd Isotopes and Its Application to Paleoceanographic Reconstruction in the Atlantic. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2020PA003928	3.3	3
68	The internal structure and geodynamics of Mars inferred from a 4.2-Gyr zircon record. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30973-30979	11.5	15
67	Blind time—current limitations on laser ablation multi-collector inductively coupled plasma mass spectrometry (LA-MC-ICP-MS) for ultra-transient signal isotope ratio analysis and application to individual sub-micron sized uranium particles. <i>Journal of Analytical Atomic Spectrometry</i> , 2020 , 35, 1011-1021	3.7	5
66	Age and Origin of Deep Crustal Meta-igneous Xenoliths from the Scottish Midland Valley: Vestiges of an Early Palaeozoic Arc and Newer Granite Magmatism. <i>Journal of Petrology</i> , 2019 , 60, 1543-1574	3.9	9
65	Improving confidence in ferromanganese crust age models: A composite geochemical approach. <i>Chemical Geology</i> , 2019 , 513, 108-119	4.2	20
64	Detrital zircon age and provenance constraints on late Paleozoic ice-sheet growth and dynamics in Western and Central Australia. <i>Australian Journal of Earth Sciences</i> , 2019 , 66, 183-207	1.4	4
63	Detrital zircon provenance of Permo-Carboniferous glacial diamictites across Gondwana. <i>Earth-Science Reviews</i> , 2019 , 192, 285-316	10.2	26
62	Spatial differences in dissolved silicon utilization in Lake Baikal, Siberia: Examining the impact of high diatom biomass events and eutrophication. <i>Limnology and Oceanography</i> , 2018 , 63, 1562-1578	4.8	6
61	Small-volume Lu-Hf and U-Pb isotope determination of complex zircons by solution and laser ablation MC-ICP-MS. <i>Chemical Geology</i> , 2018 , 476, 85-99	4.2	6
60	Kalistrontite, its occurrence, structure, genesis, and significance for the evolution of potash deposits in North Yorkshire, U.K.. <i>American Mineralogist</i> , 2018 , 103, 1136-1150	2.9	1
59	Doubling Sensitivity in Multicollector ICPMS Using High-Efficiency, Rapid Response Laser Ablation Technology. <i>Analytical Chemistry</i> , 2018 , 90, 11564-11571	7.8	10

58	Constraining modern-day silicon cycling in Lake Baikal. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 556-574	5.9	14
57	Tracking the evolution of the Grenvillian foreland basin: Constraints from sedimentology and detrital zircon and rutile in the Sleat and Torridon groups, Scotland. <i>Precambrian Research</i> , 2017 , 295, 67-89	3.9	22
56	Geology, geochemistry and geochronology of the Songwe Hill carbonatite, Malawi. <i>Journal of African Earth Sciences</i> , 2017 , 134, 10-23	2.2	18
55	The identification and significance of pure sediment-derived granites. <i>Earth and Planetary Science Letters</i> , 2017 , 467, 57-63	5.3	91
54	A calcite reference material for LA-ICP-MS U-Pb geochronology. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 2807-2814	3.6	115
53	Insights into the transfer of silicon isotopes into the sediment record. <i>Biogeosciences</i> , 2016 , 13, 147-157	4.6	17
52	Geochronology of the central Tanzania Craton and its southern and eastern orogenic margins. <i>Precambrian Research</i> , 2016 , 277, 47-67	3.9	42
51	Community-Derived Standards for LA-ICP-MS U-(Th-)Pb Geochronology [Uncertainty Propagation, Age Interpretation and Data Reporting. <i>Geostandards and Geoanalytical Research</i> , 2016 , 40, 311-332	3.6	350
50	Advances in Isotope Ratio Determination by LA-ICP-MS. <i>Elements</i> , 2016 , 12, 317-322	3.8	20
49	Generation and preservation of continental crust in the Grenville Orogeny. <i>Geoscience Frontiers</i> , 2015 , 6, 357-372	6	87
48	U-Pb zircon ages for Yarlung Tsangpo suture zone ophiolites, southwestern Tibet and their tectonic implications. <i>Gondwana Research</i> , 2015 , 27, 719-732	5.1	63
47	Synchronous N-S and E-W extension at the Tibet-to-Himalaya transition in NW Bhutan. <i>Tectonics</i> , 2015 , 34, 1375-1395	4.3	27
46	Intermontane basins and bimodal volcanism at the onset of the Sveconorwegian Orogeny, southern Norway. <i>Precambrian Research</i> , 2014 , 252, 107-118	3.9	35
45	Characterising the U-Th-Pb systematics of allanite by ID and LA-ICP-MS: Implications for geochronology. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 135, 1-28	5.5	26
44	Tectonic interleaving along the Main Central Thrust, Sikkim Himalaya. <i>Journal of the Geological Society</i> , 2014 , 171, 255-268	2.7	74
43	Lithogeochemistry, geochronology and geodynamic setting of the Lupa Terrane, Tanzania: Implications for the extent of the Archean Tanzanian Craton. <i>Precambrian Research</i> , 2013 , 231, 174-193	3.9	37
42	A geochronological and petrological study of anatectic paragneiss and associated granite dykes from the Day Nui Con Voi metamorphic core complex, North Vietnam: constraints on the timing of metamorphism within the Red River shear zone. <i>Journal of Metamorphic Geology</i> , 2013 , 31, 359-387	4.4	63
41	U-Pb Detrital Zircon Analysis [Results of an Inter-laboratory Comparison. <i>Geostandards and Geoanalytical Research</i> , 2013 , 37, 243-259	3.6	71

40	Sedimentary recycling in arc magmas: geochemical and U-Pb-Hf constraints on the Mesoproterozoic Suldal Arc, SW Norway. <i>Contributions To Mineralogy and Petrology</i> , 2013 , 165, 507-523	3.5	67
39	UPb LA-(MC)-ICP-MS dating of rutile: New reference materials and applications to sedimentary provenance. <i>Chemical Geology</i> , 2013 , 347, 82-101	4.2	66
38	High-Spatial-Resolution Geochronology. <i>Elements</i> , 2013 , 9, 31-37	3.8	25
37	Atomic spectrometry update: review of advances in atomic spectrometry and related techniques. <i>Journal of Analytical Atomic Spectrometry</i> , 2013 , 28, 779	3.7	17
36	Structural and geochronological constraints on the evolution of the eastern margin of the Tanzania Craton in the Mpwapwa area, central Tanzania. <i>Precambrian Research</i> , 2013 , 224, 671-689	3.9	30
35	Resolving Bias in Laser Ablation Geochronology. <i>Eos</i> , 2013 , 94, 217-217	1.5	5
34	Basement palaeogeography of late Neoproterozoic Scotland: constraints from exotic clasts within the lower Dalradian Supergroup. <i>Scottish Journal of Geology</i> , 2013 , 49, 81-92	1.4	2
33	Combined thermobarometry and geochronology of peraluminous metapelites from the Karakoram metamorphic complex, North Pakistan; New insight into the tectonothermal evolution of the Baltoro and Hunza Valley regions. <i>Journal of Metamorphic Geology</i> , 2012 , 30, 793-820	4.4	35
32	Investigating high zircon concentrations in the fine fraction of stream sediments draining the Pan-African Dahomeyan Terrane in Nigeria. <i>Applied Geochemistry</i> , 2012 , 27, 1525-1539	3.5	8
31	Particle Detectors Used in Isotope Ratio Mass Spectrometry, with Applications in Geology, Environmental Science and Nuclear Forensics 2012 , 685-701		
30	A short-duration pulse of ductile normal shear on the outer South Tibetan detachment in Bhutan: Alternating channel flow and critical taper mechanics of the eastern Himalaya. <i>Tectonics</i> , 2011 , 30, n/a-n/a	4.3	42
29	Cover sequences at the northern margin of the Antongil Craton, NE Madagascar. <i>Precambrian Research</i> , 2011 , 189, 292-312	3.9	19
28	Polyphase Neoproterozoic orogenesis within the East Africa-Antarctica Orogenic Belt in central and northern Madagascar. <i>Geological Society Special Publication</i> , 2011 , 357, 49-68	1.7	23
27	Metamorphism, melting, and channel flow in the Greater Himalayan Sequence and Makalu leucogranite: Constraints from thermobarometry, metamorphic modeling, and U-Pb geochronology. <i>Tectonics</i> , 2010 , 29, n/a-n/a	4.3	77
26	Evidence for long-term averaging of strontium in bovine enamel using TIMS and LA-MC-ICP-MS strontium isotope intra-molar profiles. <i>Environmental Archaeology</i> , 2010 , 15, 32-42	1.2	71
25	Regional lead isotope study of a polluted river catchment: River Wear, Northern England, UK. <i>Science of the Total Environment</i> , 2009 , 407, 4882-93	10.2	21
24	Empirical constraints on extrusion mechanisms from the upper margin of an exhumed high-grade orogenic core, Sutlej valley, NW India. <i>Tectonophysics</i> , 2009 , 477, 77-92	3.1	53
23	A new approach to single shot laser ablation analysis and its application to in situ Pb/U geochronology. <i>Journal of Analytical Atomic Spectrometry</i> , 2009 , 24, 1355	3.7	94

22	Geochronology of granulitized eclogite from the Ama Drime Massif: Implications for the tectonic evolution of the South Tibetan Himalaya. <i>Tectonics</i> , 2009 , 28, n/a-n/a	4.3	106
21	Precise and accurate isotopic analysis of microscopic uranium-oxide grains using LA-MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2009 , 24, 752	3.7	49
20	Mass Spectrometers 2009 , 26-116		1
19	Depleted uranium contamination by inhalation exposure and its detection after approximately 20 years: implications for human health assessment. <i>Science of the Total Environment</i> , 2008 , 390, 58-68	10.2	46
18	Plešovice zircon: A new natural reference material for U/Pb and Hf isotopic microanalysis. <i>Chemical Geology</i> , 2008 , 249, 1-35	4.2	2862
17	Evolving Pb isotope signatures of London airborne particulate matter (PM 10)-constraints from on-filter and solution-mode MC-ICP-MS. <i>Journal of Environmental Monitoring</i> , 2008 , 10, 830-6		16
16	Two Mesoarchaean terranes in the Reguibat shield of NW Mauritania. <i>Geological Society Special Publication</i> , 2008 , 297, 33-52	1.7	39
15	Structural insights into the early stages of exhumation along an orogen-scale detachment: The South Tibetan Detachment System, Dzaka Chu section, Eastern Himalaya. <i>Journal of Structural Geology</i> , 2007 , 29, 1781-1797	3	104
14	Tectonic evolution of the Mogok metamorphic belt, Burma (Myanmar) constrained by U-Th-Pb dating of metamorphic and magmatic rocks. <i>Tectonics</i> , 2007 , 26, n/a-n/a	4.3	229
13	Determination of ²³⁸ U/ ²³⁵ U, ²³⁶ U/ ²³⁸ U and uranium concentration in urine using sf-icp-ms and mc-icp-ms: an interlaboratory comparison. <i>Health Physics</i> , 2006 , 90, 127-38	2.3	31
12	The source of granitic gneisses and migmatites in the Antarctic Peninsula: a combined U/Pb SHRIMP and laser ablation Hf isotope study of complex zircons. <i>Contributions To Mineralogy and Petrology</i> , 2006 , 151, 751-768	3.5	140
11	Zn and Cu isotopic variability in the Alexandrinka volcanic-hosted massive sulphide (VHMS) ore deposit, Urals, Russia. <i>Chemical Geology</i> , 2005 , 221, 170-187	4.2	176
10	Isotopic discrimination of zinc in higher plants. <i>New Phytologist</i> , 2005 , 165, 703-10	9.8	198
9	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 218	3.7	109
8	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 209	3.7	88
7	Common-Pb corrected in situ U/Pb accessory mineral geochronology by LA-MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 837-846	3.7	304
6	Silicate weathering rates decoupled from the ⁸⁷ Sr/ ⁸⁶ Sr ratio of the dissolved load during Himalayan erosion. <i>Chemical Geology</i> , 2003 , 201, 119-139	4.2	75
5	Instrument response functions, mass bias and matrix effects in isotope ratio measurements and semi-quantitative analysis by single and multi-collector ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 219-229	3.7	89

4	Textural, chemical and isotopic insights into the nature and behaviour of metamorphic monazite. <i>Chemical Geology</i> , 2002 , 191, 183-207	4.2	202
3	U-Pb zircon evidence for an extensive early Archean craton in Zimbabwe: A reassessment of the timing of craton formation, stabilization, and growth. <i>Geology</i> , 1999 , 27, 707	5	60
2	Insights into the transfer of silicon isotopes into the sediment record		1
1	LA-ICP-MS U-Pb carbonate geochronology: strategies, progress, and application to fracture-fill calcite		2