Matthew Horstwood

List of Publications by Citations

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	Plešovice zircon: A new natural reference material for U–Pb and Hf isotopic microanalysis. *Chemical Geology*, **2008**, 249, 1-35	4.2	2862
74	Community-Derived Standards for LA-ICP-MS U-(Th-)Pb Geochronology – Uncertainty Propagation, Age Interpretation and Data Reporting. *Geostandards and Geoanalytical Research*, **2016**, 40, 311-332	3.6	350
73	Common-Pb corrected in situ U–Pb accessory mineral geochronology by LA-MC-ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2003**, 18, 837-846	3.7	304
72	Tectonic evolution of the Mogok metamorphic belt, Burma (Myanmar) constrained by U-Th-Pb dating of metamorphic and magmatic rocks. *Tectonics*, **2007**, 26, n/a-n/a	4.3	229
71	Textural, chemical and isotopic insights into the nature and behaviour of metamorphic monazite. *Chemical Geology*, **2002**, 191, 183-207	4.2	202
70	Isotopic discrimination of zinc in higher plants. *New Phytologist*, **2005**, 165, 703-10	9.8	198
69	Zn and Cu isotopic variability in the Alexandrinka volcanic-hosted massive sulphide (VHMS) ore deposit, Urals, Russia. *Chemical Geology*, **2005**, 221, 170-187	4.2	176
68	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. *Contributions To Mineralogy and Petrology*, **2006**, 151, 751-768	3.5	140
67	A calcite reference material for LA-ICP-MS U-Pb geochronology. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 2807-2814	3.6	115
66	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2004**, 19, 218	3.7	109
65	Geochronology of granulitized eclogite from the Ama Drime Massif: Implications for the tectonic evolution of the South Tibetan Himalaya. *Tectonics*, **2009**, 28, n/a-n/a	4.3	106
64	Structural insights into the early stages of exhumation along an orogen-scale detachment: The South Tibetan Detachment System, Dzakaa Chu section, Eastern Himalaya. *Journal of Structural Geology*, **2007**, 29, 1781-1797	3	104
63	A new approach to single shot laser ablation analysis and its application to in situ Pb/U geochronology. *Journal of Analytical Atomic Spectrometry*, **2009**, 24, 1355	3.7	94
62	The identification and significance of pure sediment-derived granites. *Earth and Planetary Science Letters*, **2017**, 467, 57-63	5.3	91
61	Instrument response functions, mass bias and matrix effects in isotope ratio measurements and semi-quantitative analysis by single and multi-collector ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2003**, 18, 219-229	3.7	89
60	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2004**, 19, 209	3.7	88
59	Generation and preservation of continental crust in the Grenville Orogeny. *Geoscience Frontiers*, **2015**, 6, 357-372	6	87

58	Metamorphism, melting, and channel flow in the Greater Himalayan Sequence and Makalu leucogranite: Constraints from thermobarometry, metamorphic modeling, and U-Pb geochronology. *Tectonics*, **2010**, 29, n/a-n/a	4.3	77
57	Silicate weathering rates decoupled from the 87Sr/86Sr ratio of the dissolved load during Himalayan erosion. *Chemical Geology*, **2003**, 201, 119-139	4.2	75
56	Tectonic interleaving along the Main Central Thrust, Sikkim Himalaya. *Journal of the Geological Society*, **2014**, 171, 255-268	2.7	74
55	U-Pb Detrital Zircon Analysis Results of an Inter-laboratory Comparison. *Geostandards and Geoanalytical Research*, **2013**, 37, 243-259	3.6	71
54	Evidence for long-term averaging of strontium in bovine enamel using TIMS and LA-MC-ICP-MS strontium isotope intra-molar profiles. *Environmental Archaeology*, **2010**, 15, 32-42	1.2	71
53	Sedimentary recycling in arc magmas: geochemical and UPbHfO constraints on the Mesoproterozoic Suldal Arc, SW Norway. *Contributions To Mineralogy and Petrology*, **2013**, 165, 507-523	3.5	67
52	UPb LA-(MC)-ICP-MS dating of rutile: New reference materials and applications to sedimentary provenance. *Chemical Geology*, **2013**, 347, 82-101	4.2	66
51	UPb zircon ages for Yarlung Tsangpo suture zone ophiolites, southwestern Tibet and their tectonic implications. *Gondwana Research*, **2015**, 27, 719-732	5.1	63
50	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. *Journal of Metamorphic Geology*, **2013**, 31, 359-387	4.4	63
49	U-Pb zircon evidence for an extensive early Archean craton in Zimbabwe: A reassessment of the timing of craton formation, stabilization, and growth. *Geology*, **1999**, 27, 707	5	60
48	Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) UPb carbonate geochronology: strategies, progress, and limitations. *Geochronology*, **2020**, 2, 33-61	3.8	56
47	Empirical constraints on extrusion mechanisms from the upper margin of an exhumed high-grade orogenic core, Sutlej valley, NW India. *Tectonophysics*, **2009**, 477, 77-92	3.1	53
46	Precise and accurate isotopic analysis of microscopic uranium-oxide grains using LA-MC-ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2009**, 24, 752	3.7	49
45	Depleted uranium contamination by inhalation exposure and its detection after approximately 20 years: implications for human health assessment. *Science of the Total Environment*, **2008**, 390, 58-68	10.2	46
44	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. *Tectonics*, **2011**, 30, n/a-n/a	4.3	42
43	Geochronology of the central Tanzania Craton and its southern and eastern orogenic margins. *Precambrian Research*, **2016**, 277, 47-67	3.9	42
42	Two Mesoarchaean terranes in the Reguibat shield of NW Mauritania. *Geological Society Special Publication*, **2008**, 297, 33-52	1.7	39
41	Lithogeochemistry, geochronology and geodynamic setting of the Lupa Terrane, Tanzania: Implications for the extent of the Archean Tanzanian Craton. *Precambrian Research*, **2013**, 231, 174-193	3.9	37

40	Intermontane basins and bimodal volcanism at the onset of the Sveconorwegian Orogeny, southern Norway. *Precambrian Research*, **2014**, 252, 107-118	3.9	35
39	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. *Journal of Metamorphic Geology*, **2012**, 30, 793-820	4.4	35
38	Determination of 238u/235u, 236u/238u and uranium concentration in urine using sf-icp-ms and mc-icp-ms: an interlaboratory comparison. *Health Physics*, **2006**, 90, 127-38	2.3	31
37	Structural and geochronological constraints on the evolution of the eastern margin of the Tanzania Craton in the Mpwapwa area, central Tanzania. *Precambrian Research*, **2013**, 224, 671-689	3.9	30
36	Synchronous N-S and E-W extension at the Tibet-to-Himalaya transition in NW Bhutan. *Tectonics*, **2015**, 34, 1375-1395	4.3	27
35	Characterising the U□Th□Pb systematics of allanite by ID and LA-ICPMS: Implications for geochronology. *Geochimica Et Cosmochimica Acta*, **2014**, 135, 1-28	5.5	26
34	Detrital zircon provenance of Permo-Carboniferous glacial diamictites across Gondwana. *Earth-Science Reviews*, **2019**, 192, 285-316	10.2	26
33	High-Spatial-Resolution Geochronology. *Elements*, **2013**, 9, 31-37	3.8	25
32	Polyphase Neoproterozoic orogenesis within the East Africa□Antarctica Orogenic Belt in central and northern Madagascar. *Geological Society Special Publication*, **2011**, 357, 49-68	1.7	23
31	Tracking the evolution of the Grenvillian foreland basin: Constraints from sedimentology and detrital zircon and rutile in the Sleat and Torridon groups, Scotland. *Precambrian Research*, **2017**, 295, 67-89	3.9	22
30	Regional lead isotope study of a polluted river catchment: River Wear, Northern England, UK. *Science of the Total Environment*, **2009**, 407, 4882-93	10.2	21
29	Improving confidence in ferromanganese crust age models: A composite geochemical approach. *Chemical Geology*, **2019**, 513, 108-119	4.2	20
28	Advances in Isotope Ratio Determination by LA□ICP□MS. *Elements*, **2016**, 12, 317-322	3.8	20
27	Cover sequences at the northern margin of the Antongil Craton, NE Madagascar. *Precambrian Research*, **2011**, 189, 292-312	3.9	19
26	Geology, geochemistry and geochronology of the Songwe Hill carbonatite, Malawi. *Journal of African Earth Sciences*, **2017**, 134, 10-23	2.2	18
25	Atomic spectrometry update: review of advances in atomic spectrometry and related techniques. *Journal of Analytical Atomic Spectrometry*, **2013**, 28, 779	3.7	17
24	Insights into the transfer of silicon isotopes into the sediment record. *Biogeosciences*, **2016**, 13, 147-157	4.6	17
23	Evolving Pb isotope signatures of London airborne particulate matter (PM 10)-constraints from on-filter and solution-mode MC-ICP-MS. *Journal of Environmental Monitoring*, **2008**, 10, 830-6		16

22	The internal structure and geodynamics of Mars inferred from a 4.2-Gyr zircon record. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30973-30979	11.5	15
21	Constraining modern-day silicon cycling in Lake Baikal. *Global Biogeochemical Cycles*, **2017**, 31, 556-574	5.9	14
20	Changing nutrient cycling in Lake Baikal, the world's oldest lake. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27211-27217	11.5	11
19	Doubling Sensitivity in Multicollector ICPMS Using High-Efficiency, Rapid Response Laser Ablation Technology. *Analytical Chemistry*, **2018**, 90, 11564-11571	7.8	10
18	Age and Origin of Deep Crustal Meta-igneous Xenoliths from the Scottish Midland Valley: Vestiges of an Early Palaeozoic Arc and Newer Granite Magmatism. *Journal of Petrology*, **2019**, 60, 1543-1574	3.9	9
17	Investigating high zircon concentrations in the fine fraction of stream sediments draining the Pan-African Dahomeyan Terrane in Nigeria. *Applied Geochemistry*, **2012**, 27, 1525-1539	3.5	8
16	Spatial differences in dissolved silicon utilization in Lake Baikal, Siberia: Examining the impact of high diatom biomass events and eutrophication. *Limnology and Oceanography*, **2018**, 63, 1562-1578	4.8	6
15	Small-volume Lu-Hf and U-Pb isotope determination of complex zircons by solution and laser ablation MC-ICP-MS. *Chemical Geology*, **2018**, 476, 85-99	4.2	6
14	Resolving Bias in Laser Ablation Geochronology. *Eos*, **2013**, 94, 217-217	1.5	5
13	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. *Journal of Analytical Atomic Spectrometry*, **2020**, 35, 1011-1021	3.7	5
12	Detrital zircon age and provenance constraints on late Paleozoic ice-sheet growth and dynamics in Western and Central Australia. *Australian Journal of Earth Sciences*, **2019**, 66, 183-207	1.4	4
11	Development of a Correlated Fe-Mn Crust Stratigraphy Using Pb and Nd Isotopes and Its Application to Paleoceanographic Reconstruction in the Atlantic. *Paleoceanography and Paleoclimatology*, **2020**, 35, e2020PA003928	3.3	3
10	Basement palaeogeography of late Neoproterozoic Scotland: constraints from exotic clasts within the lower Dalradian Supergroup. *Scottish Journal of Geology*, **2013**, 49, 81-92	1.4	2
9	LA-ICP-MS U-Pb carbonate geochronology: strategies, progress, and application to fracture-fill calcite		2
8	Mass Spectrometers **2009**, 26-116		1
7	Insights into the transfer of silicon isotopes into the sediment record		1
6	Geochemical evidence of Milankovitch cycles in Atlantic Ocean ferromanganese crusts. *Earth and Planetary Science Letters*, **2021**, 553, 116651	5.3	1
5	Kalistrontite, its occurrence, structure, genesis, and significance for the evolution of potash deposits in North Yorkshire, U.K.. *American Mineralogist*, **2018**, 103, 1136-1150	2.9	1

4 Particle Detectors Used in Isotope Ratio Mass Spectrometry, with Applications in Geology, Environmental Science, and Nuclear Forensics **2021**, 963-982

3 Particle Detectors Used in Isotope Ratio Mass Spectrometry, with Applications in Geology, Environmental Science, and Nuclear Forensics **2020**, 1-20

2 Particle Detectors Used in Isotope Ratio Mass Spectrometry, with Applications in Geology, Environmental Science and Nuclear Forensics **2012**, 685-701

1 Radiometric Dating (U-Th-Pb) **2021**, 26-49