Jon D Woodhead

List of Publications by Citations

202 papers	14,935 citations	57 h-index	119 g-index
219 ext. papers	17,075 ext. citations	6 avg, IF	6.53 L-index

#	Paper	IF	Citations
202	Iolite: Freeware for the visualisation and processing of mass spectrometric data. *Journal of Analytical Atomic Spectrometry*, **2011**, 26, 2508	3.7	1730
201	Magmatic and crustal differentiation history of granitic rocks from Hf-O isotopes in zircon. *Science*, **2007**, 315, 980-3	33.3	940
200	Improvements in 230Th dating, 230Th and 234U half-life values, and U–Th isotopic measurements by multi-collector inductively coupled plasma mass spectrometry. *Earth and Planetary Science Letters*, **2013**, 371-372, 82-91	5.3	752
199	Zircon Hf-isotope analysis with an excimer laser, depth profiling, ablation of complex geometries, and concomitant age estimation. *Chemical Geology*, **2004**, 209, 121-135	4.2	728
198	A Preliminary Appraisal of Seven Natural Zircon Reference Materials for In Situ Hf Isotope Determination. *Geostandards and Geoanalytical Research*, **2005**, 29, 183-195		707
197	Improved laser ablation U-Pb zircon geochronology through robust downhole fractionation correction. *Geochemistry, Geophysics, Geosystems*, **2010**, 11, n/a-n/a	3.6	581
196	Hafnium isotope evidence for ‘conservative’ element mobility during subduction zone processes. *Earth and Planetary Science Letters*, **2001**, 192, 331-346	5.3	520
195	High field strength and transition element systematics in island arc and back-arc basin basalts: Evidence for multi-phase melt extraction and a depleted mantle wedge. *Earth and Planetary Science Letters*, **1993**, 114, 491-504	5.3	484
194	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. *Geochemistry, Geophysics, Geosystems*, **2006**, 7, n/a-n/a	3.6	445
193	Geochemical variation within the northern Ryukyu Arc: magma source compositions and geodynamic implications. *Contributions To Mineralogy and Petrology*, **2000**, 140, 263-282	3.5	276
192	Magma Genesis in the New Britain Island Arc: Further Insights into Melting and Mass Transfer Processes. *Journal of Petrology*, **1998**, 39, 1641-1668	3.9	268
191	Geochemistry of the Mariana arc (western Pacific): Source composition and processes. *Chemical Geology*, **1989**, 76, 1-24	4.2	211
190	A simple method for obtaining highly accurate Pb isotope data by MC-ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2002**, 17, 1381-1385	3.7	182
189	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	3.7	163
188	The age of and associated sediments in the Rising Star Cave, South Africa. *ELife*, **2017**, 6,	8.9	142
187	Extreme HIMU in an oceanic setting: the geochemistry of Mangaia Island (Polynesia), and temporal evolution of the Cook–Austral hotspot. *Journal of Volcanology and Geothermal Research*, **1996**, 72, 1-19	2.8	141
186	Australopithecus sediba at 1.977 Ma and implications for the origins of the genus Homo. *Science*, **2011**, 333, 1421-3	33.3	139

185	Pb-Sr-Nd-O isotopic constraints on the origin of rhyolites from the Taupo Volcanic Zone of New Zealand: evidence for assimilation followed by fractionation from basalt. *Contributions To Mineralogy and Petrology*, **1994**, 115, 303-312	3.5	131
184	Ancient seafloor signals in Pitcairn Island lavas and evidence for large amplitude, small length-scale mantle heterogeneities. *Earth and Planetary Science Letters*, **1989**, 94, 257-273	5.3	123
183	Basalt and Sediment Geochemistry and Magma Petrogenesis in a Transect from Oceanic Island Arc to Rifted Continental Margin Arc: the Kermadec-Hikurangi Margin, SW Pacific. *Journal of Petrology* , **1996**, 37, 1523-1546	3.9	121
182	Geochemical and isotopic variations in the calc-alkaline rocks of Aeolian arc, southern Tyrrhenian Sea, Italy: constraints on magma genesis. *Contributions To Mineralogy and Petrology*, **1993**, 113, 300-313	3.5	117
181	Age and pyrite Pb-isotopic composition of the giant Sukhoi Log sediment-hosted gold deposit, Russia. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 2377-2391	5.5	114
180	Boninites and Adakites from the Northern Termination of the Tonga Trench: Implications for Adakite Petrogenesis. *Journal of Petrology*, **2007**, 49, 697-715	3.9	114
179	Strontium, Neodymium and Lead Isotope Analyses of NIST Glass Certified Reference Materials: SRM 610, 612, 614. *Geostandards and Geoanalytical Research*, **2001**, 25, 261-266	3.6	113
178	O, S, Sr, and Pb isotope variations in volcanic rocks from the Northern Mariana Islands: implications for crustal recycling in intra-oceanic arcs. *Earth and Planetary Science Letters*, **1987**, 83, 39-52	5.3	113
177	Sources and evolution of arc magmas inferred from coupled O and Hf isotope systematics of plutonic zircons from the Cretaceous Separation Point Suite (New Zealand). *Earth and Planetary Science Letters*, **2008**, 268, 312-324	5.3	111
176	Geochemistry of the Pitcairn seamounts, I: source character and temporal trends. *Earth and Planetary Science Letters*, **1993**, 116, 81-99	5.3	111
175	Pb, Sr and 10Be isotopic studies of volcanic rocks from the Northern Mariana Islands. Implications for magma genesis and crustal recycling in the Western Pacific. *Geochimica Et Cosmochimica Acta*, **1985**, 49, 1925-1930	5.5	103
174	U-Pb geochronology of speleothems by MC-ICPMS. *Quaternary Geochronology*, **2006**, 1, 208-221	2.7	100
173	GSD-1G and MPI-DING Reference Glasses for In Situ and Bulk Isotopic Determination. *Geostandards and Geoanalytical Research*, **2011**, 35, 193-226	3.6	94
172	Routine lead isotope determinations using a lead-207-lead-204 double spike: a long-term assessment of analytical precision and accuracy. *Analyst, The*, **1995**, 120, 35-39	5	92
171	Pb-Isotope Analyses of USGS Reference Materials. *Geostandards and Geoanalytical Research*, **2000**, 24, 33-38	3.6	91
170	The Anatomy of an Andesite Volcano: a Time-Stratigraphic Study of Andesite Petrogenesis and Crustal Evolution at Ruapehu Volcano, New Zealand. *Journal of Petrology*, **2012**, 53, 2139-2189	3.9	88
169	Isotopic and trace-element profiles across the New Britain island arc, Papua New Guinea. *Contributions To Mineralogy and Petrology*, **1993**, 113, 479-491	3.5	88
168	The May 2003 eruption of Anatahan volcano, Mariana Islands: Geochemical evolution of a silicic island-arc volcano. *Journal of Volcanology and Geothermal Research*, **2005**, 146, 139-170	2.8	81

167	Petrogenesis of High-K Arc Magmas: Evidence from Egmont Volcano, North Island, New Zealand. *Journal of Petrology*, **1999**, 40, 167-197	3.9	80
166	Contemporary flowstone development links early hominin bearing cave deposits in South Africa. *Earth and Planetary Science Letters*, **2011**, 306, 23-32	5.3	78
165	Oxygen isotope evidence for recycled crust in the source of EM-type ocean island basalts. *Nature*, **1993**, 362, 809-813	50.4	78
164	The Origin of Geochemical Variations in Mariana Lavas: A General Model for Petrogenesis in Intra-Oceanic Island Arcs?. *Journal of Petrology*, **1988**, 29, 805-830	3.9	78
163	Multiple mantle plume components involved in the petrogenesis of subduction-related lavas from the northern termination of the Tonga Arc and northern Lau Basin: Evidence from the geochemistry of arc and backarc submarine volcanics. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	76
162	Lead isotopic evidence for deep crustal-scale fluid transport during granite petrogenesis. *Geochimica Et Cosmochimica Acta*, **1993**, 57, 659-674	5.5	73
161	U-Pb Detrital Zircon Analysis Results of an Inter-laboratory Comparison. *Geostandards and Geoanalytical Research*, **2013**, 37, 243-259	3.6	71
160	Pliocene reversal of late Neogene aridification. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1999-2004	11.5	70
159	Contrasting behaviours of CO2, S, H2O and halogens (F, Cl, Br, and I) in enriched-mantle melts from Pitcairn and Society seamounts. *Chemical Geology*, **2014**, 370, 69-81	4.2	69
158	CellSpace: A module for creating spatially registered laser ablation images within the Iolite freeware environment. *Journal of Analytical Atomic Spectrometry*, **2012**, 27, 700	3.7	68
157	Speleothem climate records from deep time? Exploring the potential with an example from the Permian. *Geology*, **2010**, 38, 455-458	5	68
156	African kimberlites revisited: In situ Sr-isotope analysis of groundmass perovskite. *Lithos*, **2009**, 112, 311-317	3.7	68
155	Pan-African intraplate deformation in the northern Prince Charles Mountains, east Antarctica. *Earth and Planetary Science Letters*, **2002**, 195, 195-210	5.3	68
154	A critical evaluation of recent models for Lau Tonga arc Backarc basin magmatic evolution. *Chemical Geology*, **2007**, 245, 9-44	4.2	66
153	Development of Framboidal Pyrite During Diagenesis, Low-Grade Regional Metamorphism, and Hydrothermal Alteration. *Economic Geology*, **2009**, 104, 1143-1168	4.3	65
152	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	5	61
151	Improving isochron calculations with robust statistics and the bootstrap. *Chemical Geology*, **2002**, 185, 191-204	4.2	61
150	The zircon matrix effect evidence for an ablation rate control on the accuracy of UPb age determinations by LA-ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2014**, 29, 981-989	3.7	60

149	In situ Pb-isotope analysis of pyrite by laser ablation (multi-collector and quadrupole) ICPMS. *Chemical Geology*, **2009**, 262, 344-354	4.2	60
148	Mantle heterogeneity during the formation of the North Atlantic Igneous Province: Constraints from trace element and Sr-Nd-Os-O isotope systematics of Baffin Island picrites. *Geochemistry, Geophysics, Geosystems*, **2004**, 5, n/a-n/a	3.6	60
147	Visualising mouse neuroanatomy and function by metal distribution using laser ablation-inductively coupled plasma-mass spectrometry imaging. *Chemical Science*, **2015**, 6, 5383-5393	9.4	59
146	Temporal Evolution of the Mariana Arc: Mantle Wedge and Subducted Slab Controls Revealed with a Tephra Perspective. *Journal of Petrology*, **2015**, 56, 409-439	3.9	57
145	The final stages of kimberlite petrogenesis: Petrography, mineral chemistry, melt inclusions and Sr-C-O isotope geochemistry of the Bultfontein kimberlite (Kimberley, South Africa). *Chemical Geology*, **2017**, 455, 342-356	4.2	57
144	Developing a radiometrically-dated chronologic sequence for Neogene biotic change in Australia, from the Riversleigh World Heritage Area of Queensland. *Gondwana Research*, **2016**, 29, 153-167	5.1	55
143	Identifying the asthenospheric component of kimberlite magmas from the Dharwar Craton, India. *Lithos*, **2009**, 112, 296-310	2.9	55
142	Did diamond-bearing orangeites originate from MARID-veined peridotites in the lithospheric mantle?. *Nature Communications*, **2015**, 6, 6837	17.4	54
141	Contemporaneity of , , and early in South Africa. *Science*, **2020**, 368,	33.3	54
140	Pliocene–Pleistocene climate of the northern margin of Saharan–Arabian Desert recorded in speleothems from the Negev Desert, Israel. *Earth and Planetary Science Letters*, **2013**, 368, 88-100	5.3	52
139	Application of the 'double spike' technique to Pb-isotope geochronology. *Chemical Geology*, **1997**, 138, 311-321	4.2	51
138	Temporal geochemical evolution in oceanic intra-plate volcanics: a case study from the Marquesas (French Polynesia) and comparison with other hotspots. *Contributions To Mineralogy and Petrology*, **1992**, 111, 458-467	3.5	51
137	Cryptic diagenesis and its implications for speleothem geochronologies. *Quaternary Science Reviews*, **2016**, 148, 17-28	3.9	50
136	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	3.7	50
135	Hf-Nd isotope variation in Mariana Trough basalts: The importance of 'ambient mantle' in the interpretation of subduction zone magmas. *Geology*, **2012**, 40, 539-542	5	48
134	Palaeozoic Intraplate Crustal Anatexis in the Mount Painter Province, South Australia: Timing, Thermal Budgets and the Role of Crustal Heat Production. *Journal of Petrology*, **2006**, 47, 2281-2302	3.9	48
133	MPI-DING glasses: New geological reference materials for in situ Pb isotope analysis. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	47
132	In-situ assimilation of mantle minerals by kimberlitic magmas: Direct evidence from a garnet wehrlite xenolith entrained in the Bultfontein kimberlite (Kimberley, South Africa). *Lithos*, **2016**, 256-257, 182-196	2.9	47

131	Interplay of crystal fractionation, sulfide saturation and oxygen fugacity on the iron isotope composition of arc lavas: An example from the Marianas. *Geochimica Et Cosmochimica Acta*, **2018**, 226, 224-243	5.5	46
130	Elemental signatures in otoliths of hatchery rainbow trout (Oncorhynchus mykiss): distinctiveness and utility for detecting origins and movement. *Canadian Journal of Fisheries and Aquatic Sciences*, **2009**, 66, 513-524	2.4	46
129	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	3.9	46
128	U-Pb-dated flowstones restrict South African early hominin record to dry climate phases. *Nature*, **2019**, 565, 226-229	50.4	46
127	Subduction-related halogens (Cl, Br and I) and H2O in magmatic glasses from Southwest Pacific Backarc Basins. *Earth and Planetary Science Letters*, **2014**, 400, 165-176	5.3	45
126	The effect of habitat and environmental history on otolith chemistry of barramundi Lates calcarifer in estuarine populations of a regulated tropical river. *Estuarine, Coastal and Shelf Science*, **2008**, 78, 301-315	2.9	44
125	Tracking halogens through the subduction cycle. *Geology*, **2012**, 40, 1075-1078	5	43
124	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	2.9	42
123	Louisville seamount subduction and its implication on mantle flow beneath the central Tonga-Kermadec arc. *Nature Communications*, **2013**, 4, 1720	17.4	41
122	Paleoanthropologically significant South African sea caves dated to 1.1–1.0 million years using a combination of U-Pb, TT-OSL and palaeomagnetism. *Quaternary Science Reviews*, **2013**, 65, 39-52	3.9	41
121	Isotopic dating of an Archean bolide impact horizon, Hamersley basin, Western Australia. *Geology*, **1998**, 26, 47	5	41
120	Stalagmite carbon isotopes and dead carbon proportion (DCP) in a near-closed-system situation: An interplay between sulphuric and carbonic acid dissolution. *Geochimica Et Cosmochimica Acta*, **2017**, 210, 208-227	5.5	39
119	Stone tools from the ancient Tongan state reveal prehistoric interaction centers in the Central Pacific. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10491-6	11.5	39
118	A primordial solar-neon enriched component in the source of EM-I-type ocean island basalts from the Pitcairn Seamounts, Polynesia. *Earth and Planetary Science Letters*, **2005**, 236, 597-612	5.3	39
117	Os Isotopes and the Origin of the Tasmanian Dolerites. *Journal of Petrology*, **2000**, 41, 905-918	3.9	39
116	Isotopic and Elemental Imaging of Geological Materials by Laser Ablation Inductively Coupled Plasma-Mass Spectrometry. *Geostandards and Geoanalytical Research*, **2007**, 31, 071117031212003-???		38
115	Melt inclusion Pb-isotope analysis by LA-MC-ICPMS: Assessment of analytical performance and application to OIB genesis. *Chemical Geology*, **2011**, 289, 210-223	4.2	37
114	LIMA U-Pb ages link lithospheric mantle metasomatism to Karoo magmatism beneath the Kimberley region, South Africa. *Earth and Planetary Science Letters*, **2014**, 401, 132-147	5.3	36

113	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	2.8	36
112	Recycling of Proterozoic crust in Pleistocene juvenile magma and rapid formation of the Ok Tedi porphyry Cu□Au deposit, Papua New Guinea. *Lithos*, **2010**, 114, 282-292	2.9	35
111	Subduction initiation terranes exposed at the front of a 2 Ma volcanically-active subduction zone. *Earth and Planetary Science Letters*, **2019**, 508, 30-40	5.3	35
110	U and Pb variability in older speleothems and strategies for their chronology. *Quaternary Geochronology*, **2012**, 14, 105-113	2.7	34
109	Beyond 500 ka: Progress and prospects in the UPb chronology of speleothems, and their application to studies in palaeoclimate, human evolution, biodiversity and tectonics. *Chemical Geology*, **2012**, 322-323, 290-299	4.2	33
108	Kimberlites as Geochemical Probes of Earth□ Mantle. *Elements*, **2019**, 15, 387-392	3.8	33
107	Kimberlites reveal 2.5-billion-year evolution of a deep, isolated mantle reservoir. *Nature*, **2019**, 573, 578-581	5.4	32
106	Coupled Hf□Nd□Pb isotope co-variations of HIMU oceanic island basalts from Mangaia, Cook-Austral islands, suggest an Archean source component in the mantle transition zone. *Geochimica Et Cosmochimica Acta*, **2013**, 112, 87-101	5.5	31
105	Multiple mantle sources of continental magmatism: Insights from □igh-Ti□picrites of Karoo and other large igneous provinces. *Chemical Geology*, **2017**, 455, 22-31	4.2	31
104	Precise microsampling of poorly laminated speleothems for U-series dating. *Quaternary Geochronology*, **2012**, 14, 38-47	2.7	30
103	Long-Term Observations of Isotope Ratio Accuracy and Reproducibility Using Quadrupole ICP-MS. *Geostandards and Geoanalytical Research*, **2010**, 34, 161-174	3.6	30
102	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	1.4	30
101	Mantle oddities: A sulphate fluid preserved in a MARID xenolith from the Bultfontein kimberlite (Kimberley, South Africa). *Earth and Planetary Science Letters*, **2013**, 376, 74-86	5.3	29
100	The unique preservational environment of the Early Permian (Cisuralian) fossiliferous cave deposits of the Richards Spur locality, Oklahoma. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 475, 1-11	2.9	28
99	Chronology of the cave interior sediments at Gran Dolina archaeological site, Atapuerca (Spain). *Quaternary Science Reviews*, **2018**, 186, 1-16	3.9	28
98	Thallium elemental behavior and stable isotope fractionation during magmatic processes. *Chemical Geology*, **2017**, 448, 71-83	4.2	28
97	Late-stage evolution of the Chemehuevi and Sacramento detachment faults from apatite (U-Th)/He thermochronometry--Evidence for mid-Miocene accelerated slip. *Bulletin of the Geological Society of America*, **2006**, 118, 689-709	3.9	28
96	Basalt Pb isotope analysis and the prehistoric settlement of Polynesia. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 1881-5	11.5	28

95	An investigation of the laser-induced zircon matrix effect. *Chemical Geology*, **2016**, 438, 11-24	4.2	28
94	New dating evidence of the early presence of hominins in Southern Europe. *Scientific Reports*, **2017**, 7, 10074	4.9	27
93	Subduction of the oceanic Hikurangi Plateau and its impact on the Kermadec arc. *Nature Communications*, **2014**, 5, 4923	17.4	27
92	Recruitment sources and dispersal of an invasive fish in a large river system as revealed by otolith chemistry analysis. *Canadian Journal of Fisheries and Aquatic Sciences*, **2013**, 70, 953-963	2.4	27
91	Subduction zone Hf-anomalies: Mantle messenger, melting artefact or crustal process?. *Earth and Planetary Science Letters*, **2011**, 304, 231-239	5.3	27
90	Continental setting inferred for emplacement of the 2.9–2.7 Ga Belingwe Greenstone Belt, Zimbabwe. *Geology*, **2003**, 31, 295	5	27
89	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	1.4	27
88	Tracking continental-scale modification of the Earth's mantle using zircon megacrysts. *Geochemical Perspectives Letters*,1-6	3	26
87	The 4.2 ka event in the central Mediterranean: new data from a Corchia speleothem (Apuan Alps, central Italy). *Climate of the Past*, **2019**, 15, 135-151	3.9	25
86	Arc and back-arc geochemistry in the southern Kermadec arc-Ngatoro Basin and offshore Taupo Volcanic Zone, SW Pacific. *Geological Society Special Publication*, **1994**, 81, 193-212	1.7	25
85	Towards a Method for Quantitative LA-ICP-MS Imaging of Multi-Phase Assemblages: Mineral Identification and Analysis Correction Procedures. *Geostandards and Geoanalytical Research*, **2014**, 38, 253-263	3.6	24
84	An integrated zircon geochronological and geochemical investigation into the Miocene plutonic evolution of the Cyclades, Aegean Sea, Greece: part 2. Geochemistry. *Contributions To Mineralogy and Petrology*, **2012**, 164, 915-933	3.5	24
83	An Image Mapping Approach to U-Pb LA-ICP-MS Carbonate Dating and Applications to Direct Dating of Carbonate Sedimentation. *Geochemistry, Geophysics, Geosystems*, **2018**, 19, 4631-4648	3.6	24
82	Use of otolith chemistry and acoustic telemetry to elucidate migratory contingents in barramundi Lates calcarifer. *Marine and Freshwater Research*, **2017**, 68, 1554	2.2	22
81	Early last glacial intra-interstadial climate variability recorded in a Sardinian speleothem. *Quaternary Science Reviews*, **2017**, 169, 391-397	3.9	22
80	Persistent influence of obliquity on ice age terminations since the Middle Pleistocene transition. *Science*, **2020**, 367, 1235-1239	33.3	22
79	Pedothem carbonates reveal anomalous North American atmospheric circulation 70,000-55,000 years ago. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 919-24	11.5	22
78	Origin of Silicic Magmas at Spreading Centres: An Example from the South East Rift, Manus Basin. *Journal of Petrology*, **2015**, 56, 255-272	3.9	22

77	Late Cenozoic tephrostratigraphy offshore the southern Central American Volcanic Arc: 1. Tephra ages and provenance. *Geochemistry, Geophysics, Geosystems*, **2016**, 17, 4641-4668	3.6	22
76	Reconciling petrological and isotopic mixing mechanisms in the Pitcairn mantle plume using stable Fe isotopes. *Earth and Planetary Science Letters*, **2019**, 521, 60-67	5.3	21
75	Kimberlite-related metasomatism recorded in MARID and PIC mantle xenoliths. *Mineralogy and Petrology*, **2018**, 112, 71-84	1.6	21
74	Organic compounds preserved in a 2.9million year old stalagmite from the Nullarbor Plain, Australia. *Chemical Geology*, **2010**, 279, 101-105	4.2	21
73	Uncertainties on lead isotope analyses:deconvolution in the double-spike method. *Chemical Geology*, **1998**, 148, 95-104	4.2	21
72	Advances in Isotope Ratio Determination by LA□CP□MS. *Elements*, **2016**, 12, 317-322	3.8	20
71	Geochemical evolution of Monowai volcanic center: New insights into the northern Kermadec arc subduction system, SW Pacific. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	19
70	Current limitations to the understanding of Re□Os behaviour in subduction systems, with an example from New Britain. *Earth and Planetary Science Letters*, **2004**, 221, 309-323	5.3	19
69	Noble metals potential of sulfide-saturated melts from the subcontinental lithosphere. *Geology*, **2013**, 41, 575-578	5	18
68	Pluvial periods in Southern Arabia over the last 1.1 million-years. *Quaternary Science Reviews*, **2020**, 229, 106112	3.9	17
67	Environmental variability between the penultimate deglaciation and the mid Eemian: Insights from Tana che Urla (central Italy) speleothem trace element record. *Quaternary Science Reviews*, **2016**, 152, 80-92	3.9	17
66	The antiquity of Nullarbor speleothems and implications for karst palaeoclimate archives. *Scientific Reports*, **2019**, 9, 603	4.9	16
65	High-resolution U□Pb dating of an Early Pleistocene stalagmite from Corchia Cave (central Italy). *Quaternary Geochronology*, **2012**, 14, 5-17	2.7	16
64	Vegetation and Climate Change in Southwestern Australia During the Last Glacial Maximum. *Geophysical Research Letters*, **2019**, 46, 1709-1720	4.9	15
63	Major zircon megacryst suites of the Indo-Pacific lithospheric margin (ZIP) and their petrogenetic and regional implications. *Mineralogy and Petrology*, **2016**, 110, 399-420	1.6	15
62	Late quaternary speleogenesis and landscape evolution in the northern Apennine evaporite areas. *Earth Surface Processes and Landforms*, **2017**, 42, 1447-1459	3.7	14
61	Southern Hemisphere subtropical drying as a transient response to warming. *Nature Climate Change*, **2019**, 9, 232-236	21.4	14
60	Migration to freshwater increases growth rates in a facultatively catadromous tropical fish. *Oecologia*, **2019**, 191, 253-260	2.9	14

59	Exploring the advantages and limitations of in situ U-Pb carbonate geochronology using speleothems. *Geochronology*, **2019**, 1, 69-84	3.8	14
58	Asthenospheric outflow from the shrinking Philippine Sea Plate: Evidence from Hf-Nd isotopes of southern Mariana lavas. *Earth and Planetary Science Letters*, **2017**, 478, 258-271	5.3	12
57	SW Pacific arc and backarc lavas and the role of slab-bend serpentinites in the global halogen cycle. *Earth and Planetary Science Letters*, **2020**, 530, 115921	5.3	12
56	The Moyjil site, south-west Victoria, Australia: chronology. *Proceedings of the Royal Society of Victoria*, **2018**, 130, 32	1.1	12
55	Modelling Isotopic Responses to Disequilibrium Melting in Granitic Systems. *Journal of Petrology*, **2018**, 59, 87-113	3.9	11
54	Partitioning of Mg, Sr, Ba and U into a subaqueous calcite speleothem. *Geochimica Et Cosmochimica Acta*, **2019**, 264, 67-91	5.5	11
53	U/Pb dating of a terminal Pliocene coral from the Indonesian Seaway. *Marine Geology*, **2012**, 311-314, 57-62	3.3	11
52	Croatian Appoxiomenos alloy composition and lead provenance study. *Journal of Archaeological Science*, **2010**, 37, 1396-1402	2.9	11
51	Gondwana margin evolution from zircon REE, O and Hf signatures of Western Province gneisses, Zealandia. *Geological Society Special Publication*, **2015**, 389, 323-353	1.7	10
50	Pre-1.8 Ga tectono-magmatic evolution of the Kalkadoon–Leichhardt Belt: implications for the crustal architecture and metallogeny of the Mount Isa Inlier, northwest Queensland, Australia. *Australian Journal of Earth Sciences*, **2011**, 58, 887-915	1.4	10
49	Isotope Ratio Determination in the Earth and Environmental Sciences: Developments and Applications in 2004/2005. *Geostandards and Geoanalytical Research*, **2006**, 30, 187-196		10
48	GGR Critical Review of Analytical Developments in 2003. *Geostandards and Geoanalytical Research*, **2005**, 29, 5-52		10
47	Expanded Florida reef development during the mid-Pliocene warm period. *Global and Planetary Change*, **2017**, 152, 27-37	4.2	9
46	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	4.2	9
45	Isotopic analyses of clinopyroxenes demonstrate the effects of kimberlite melt metasomatism upon the lithospheric mantle. *Lithos*, **2020**, 370-371, 105595	2.9	9
44	Measuring 0.01‰ to 0.1‰ isotopic variations by MC-ICPMS: Testing limits for the first time with Pb ‰ CRMs. *Journal of Analytical Atomic Spectrometry*, **2009**, 24, 407	3.7	9
43	Titanates of the lindsleyite–mathiasite (LIMA) group reveal isotope disequilibrium associated with metasomatism in the mantle beneath Kimberley (South Africa). *Earth and Planetary Science Letters*, **2018**, 482, 253-264	5.3	9
42	Isotope Ratio Determination in the Earth and Environmental Sciences: Developments and Applications in 2006–2007. *Geostandards and Geoanalytical Research*, **2008**, 32, 495-507	3.6	8

41	Tungsten-182 evidence for an ancient kimberlite source. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
40	Corrections for initial isotopic disequilibrium in the speleothem U-Pb dating method. *Quaternary Geochronology*, **2019**, 54, 101009	2.7	7
39	Granite greenstone connection in western Victoria: an example from the Bushy Creek Igneous Complex. *Australian Journal of Earth Sciences*, **2007**, 54, 975-990	1.4	7
38	Magnesium in subaqueous speleothems as a potential palaeotemperature proxy. *Nature Communications*, **2020**, 11, 5027	17.4	7
37	Isotopic Evidence for Multiple Recycled Sulfur Reservoirs in the Mangaia Mantle Plume. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC009081	3.6	7
36	Petrogenesis of granitoids from the Lachlan Fold Belt, southeastern Australia: The role of disequilibrium melting. *Gondwana Research*, **2020**, 79, 87-109	5.1	7
35	Using speleothems to constrain late Cenozoic uplift rates in karst terranes. *Geology*, **2020**, 48, 755-760	5	6
34	GGR Biennial Review: Isotope Ratio Determination in the Earth and Environmental Sciences 2008–2009. *Geostandards and Geoanalytical Research*, **2010**, 34, 395-406	3.6	6
33	Isotope Ratio Determination in the Earth and Environmental Sciences: Developments and Applications in 2003. *Geostandards and Geoanalytical Research*, **2005**, 29, 26-36		6
32	Robust isochron calculation. *Geochronology*, **2020**, 2, 325-342	3.8	6
31	Constraints on the Miocene landscape evolution of the Eastern Alps from the Kalkspitze region, Niedere Tauern (Austria). *Geomorphology*, **2017**, 299, 24-38	4.3	5
30	GGR Critical Review of Analytical Developments in 2004–2005. *Geostandards and Geoanalytical Research*, **2006**, 30, 141-142		5
29	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. (Tectonophysics 322, 69-88). *Tectonophysics*, **2002**, 344, 289-292	3.1	5
28	A single-column extraction chemistry for isotope dilution U-Pb dating of carbonate. *Chemical Geology*, **2020**, 531, 119311	4.2	5
27	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	9.4	5
26	U-Th and radiocarbon dating of calcite speleothems from gypsum caves (Emilia Romagna, North Italy). *Quaternary Geochronology*, **2019**, 52, 51-62	2.7	4
25	Across-Arc Diversity in Rhyolites From an Intra-oceanic Arc: Evidence From IODP Site U1437, Izu-Bonin Rear Arc, and Surrounding Area. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2019GC008353	3.6	4
24	Strontium Isotope Analysis of Kimberlitic Groundmass Perovskite via LA-MC-ICP-MS. *Geostandards and Geoanalytical Research*, **2007**, 31, 071117031212001-???		4

23	An exploration of the utility of speleothem age distributions for palaeoclimate assessment. *Quaternary Geochronology*, **2020**, 60, 101112	2.7	4
22	Isotopic (U-Pb, Nd) and geochemical constraints on the origins of the Aileu and Gondwana sequences of Timor. *Journal of Asian Earth Sciences*, **2017**, 134, 330-351	2.8	3
21	The Ojolali region, Sumatra, Indonesia: Epithermal gold–silver mineralisation within the Sunda Arc. *Gondwana Research*, **2014**, 26, 218-240	5.1	3
20	Re-analysis of key evidence in the case for a hemispherically synchronous response to the Younger Dryas climatic event. *Journal of Quaternary Science*, **2013**, 28, 8-12	2.3	3
19	A comparison of geochronological methods commonly applied to kimberlites and related rocks: Three case studies from Finland. *Chemical Geology*, **2020**, 558, 119899	4.2	3
18	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	3.7	2
17	GGR Critical Review of Analytical Developments in 2006–2007. *Geostandards and Geoanalytical Research*, **2008**, 32, 397-398	3.6	2
16	Reply to the Comments of Conrey (1990). *Journal of Petrology*, **1990**, 31, 963-966	3.9	2
15	A model for the formation of layered soda-straw stalactites. *International Journal of Speleology*, **2013**, 42, 155-160	2	2
14	New Chronological Constraints from Hypogean Deposits for Late Pliocene to Recent Morphotectonic History of the Alpi Apuane (NW Tuscany, Italy). *Geosciences (Switzerland)*, **2021**, 11, 65	2.7	2
13	Mantle-like HfNd isotope signatures in ~3.5 Ga greenstones: No evidence for Hadean crust beneath the East Pilbara Craton. *Chemical Geology*, **2021**, 576, 120273	4.2	2
12	Otolith chemistry delineates the influence of natal origin, dispersal and flow on the population dynamics of golden perch (Macquaria ambigua) in a regulated river. *Marine and Freshwater Research* , **2021**, 72, 1484	2.2	2
11	Examining sediment infill dynamics at Naracoorte cave megafauna sites using multiple luminescence dating signals. *Quaternary Geochronology*, **2022**, 101301	2.7	2
10	The role of dispersed ash in orbital-scale time-series studies of explosive arc volcanism: insights from IODP Hole U1437B, Northwest Pacific Ocean. *International Geology Review*, **2019**, 61, 2164-2183	2.3	1
9	Earth science: Mixing it up in the mantle. *Nature*, **2015**, 517, 275-6	50.4	1
8	GGR Critical Review of Analytical Developments in 2008–2009: An Introduction. *Geostandards and Geoanalytical Research*, **2010**, 34, 325-326	3.6	1
7	Continental setting inferred for emplacement of the 2.9–2.7 Ga Belingwe Greenstone Belt, Zimbabwe: Comment and Reply. *Geology*, **2003**, 31, e31-e31	5	1
6	Timescales of speleogenesis in an evolving syngenetic karst: The Tamala Limestone,Western Australia. *Geomorphology*, **2022**, 399, 108079	4.3	1

5	Perturbation of the deep-Earth carbon cycle in response to the Cambrian Explosion.. *Science Advances*, **2022**, 8, eabj1325	14.3	0
4	The Relationship between Gabbros and Granites in the Lachlan Fold Belt: An example from Arte River, East Gippsland. *ASEG Extended Abstracts*, **2006**, 2006, 1-3	0.2	
3	Stalactites and Stalagmites **2012**, 805-810		
2	Reply to: Clusters of flowstone ages are not supported by statistical evidence. *Nature*, **2021**, 594, E11	50.4	
1	Low impact sampling of speleothems reconciling scientific study with cave conservation. *International Journal of Speleology*, **2021**, 51, 1-11	2	