

Trevor R Ireland

List of Publications by Year in descending order

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213
papers

15,747
citations

16437

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18115

120
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218
docs citations

218
times ranked

7577
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#	ARTICLE	IF	CITATIONS
1	U/Pb zircon ages constrain the architecture of the ultrahigh-pressure Qinling-Dabie Orogen, China. <i>Earth and Planetary Science Letters</i> , 1998, 161, 215-230.	1.8	877
2	Tectonics of the Qinling (Central China): tectonostratigraphy, geochronology, and deformation history. <i>Tectonophysics</i> , 2003, 366, 1-53.	0.9	768
3	Rare earth element chemistry of zircon and its use as a provenance indicator. <i>Geology</i> , 2000, 28, 627.	2.0	738
4	Exhumation of ultrahigh-pressure continental crust in east central China: Late Triassic-Early Jurassic tectonic unroofing. <i>Journal of Geophysical Research</i> , 2000, 105, 13339-13364.	3.3	608
5	Ion microprobe identification of 4,100-4,200 Myr-old terrestrial zircons. <i>Nature</i> , 1983, 304, 616-618.	13.7	460
6	The unexpected surface of asteroid (101955) Bennu. <i>Nature</i> , 2019, 568, 55-60.	13.7	364
7	Exhumation of the ultrahigh-pressure continental crust in east central China: Cretaceous and Cenozoic unroofing and the Tan-Lu fault. <i>Journal of Geophysical Research</i> , 2000, 105, 13303-13338.	3.3	346
8	The link between reduced porphyry copper deposits and oxidized magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 263-275.	1.6	339
9	Considerations in Zircon Geochronology by SIMS. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 53, 215-241.	2.2	318
10	Development of the early Paleozoic Pacific margin of Gondwana from detrital-zircon ages across the Delamerian orogen. <i>Geology</i> , 1998, 26, 243.	2.0	275
11	U-Pb chronology of the Solar System's oldest solids with variable $^{238}\text{U}/^{235}\text{U}$. <i>Earth and Planetary Science Letters</i> , 2010, 300, 343-350.	1.8	270
12	Determining high precision, in situ, oxygen isotope ratios with a SHRIMP II: Analyses of MPI-DING silicate-glass reference materials and zircon from contrasting granites. <i>Chemical Geology</i> , 2008, 257, 114-128.	1.4	254
13	Evidence for widespread hydrated minerals on asteroid (101955) Bennu. <i>Nature Astronomy</i> , 2019, 3, 332-340.	4.2	251
14	Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith. <i>Science</i> , 2011, 333, 1125-1128.	6.0	249
15	Unsupported radiogenic Pb in zircon: a cause of anomalously high Pb-Pb, U-Pb and Th-Pb ages. <i>Contributions To Mineralogy and Petrology</i> , 1984, 88, 322-327.	1.2	243
16	Carbon, nitrogen, magnesium, silicon, and titanium isotopic compositions of single interstellar silicon carbide grains from the Murchison carbonaceous chondrite. <i>Astrophysical Journal</i> , 1994, 430, 870.	1.6	214
17	High-uranium matrix effect in zircon and its implications for SHRIMP U-Pb age determinations. <i>Chemical Geology</i> , 2012, 306-307, 78-91.	1.4	189
18	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. <i>Nature Astronomy</i> , 2019, 3, 341-351.	4.2	188

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19	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	5.4	179
20	Oxygen Isotopic Compositions of Asteroidal Materials Returned from Itokawa by the Hayabusa Mission. <i>Science</i> , 2011, 333, 1116-1119.	6.0	161
21	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. <i>Nature Geoscience</i> , 2019, 12, 242-246.	5.4	161
22	Geochronology and geochemistry of a Mesozoic magmatic arc system, Fiordland, New Zealand. <i>Journal of the Geological Society</i> , 1998, 155, 1037-1053.	0.9	159
23	Mass-spectrometric mining of Hadean zircons by automated SHRIMP multi-collector and single-collector U/Pb zircon age dating: The first 100,000 grains. <i>International Journal of Mass Spectrometry</i> , 2009, 286, 53-63.	0.7	158
24	Low $\delta^{18}\text{O}$ zircons, U-Pb dating, and the age of the Qinglongshan oxygen and hydrogen isotope anomaly near Donghai in Jiangsu Province, China. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2299-2306.	1.6	154
25	Trace elements in diamond inclusions from eclogites reveal link to Archean granites. <i>Earth and Planetary Science Letters</i> , 1994, 128, 199-213.	1.8	145
26	Timing of deposition, orogenesis and glaciation within the Dalradian rocks of Scotland: constraints from U-Pb zircon ages. <i>Journal of the Geological Society</i> , 2002, 159, 83-94.	0.9	145
27	The oldest zircons in the solar system. <i>Earth and Planetary Science Letters</i> , 1992, 109, 1-10.	1.8	141
28	SHRIMP monazite and zircon geochronology of high-grade metamorphism in New Zealand. <i>Journal of Metamorphic Geology</i> , 1998, 16, 149-167.	1.6	138
29	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	4.2	136
30	Presolar isotopic and chemical signatures in hibonite-bearing refractory inclusions from the Murchison carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 3219-3237.	1.6	135
31	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. <i>Nature Astronomy</i> , 2019, 3, 352-361.	4.2	132
32	Early archaean zircon ages from orthogneisses and anorthosites at Mount Narryer, Western Australia. <i>Precambrian Research</i> , 1988, 38, 325-341.	1.2	131
33	Evaluation of Duluth Complex anorthositic series (AS3) zircon as a U-Pb geochronological standard: new high-precision isotope dilution thermal ionization mass spectrometry results. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3665-3672.	1.6	130
34	Generation of Late Mesozoic Qianlishan A2 -type granite in Nanling Range, South China: Implications for Shizhuyuan W-Sn mineralization and tectonic evolution. <i>Lithos</i> , 2016, 266-267, 435-452.	0.6	130
35	Correlated morphological, chemical, and isotopic characteristics of hibonites from the Murchison carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2827-2839.	1.6	129
36	Irradiation History of Itokawa Regolith Material Deduced from Noble Gases in the Hayabusa Samples. <i>Science</i> , 2011, 333, 1128-1131.	6.0	128

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37	Allanite micro-geochronology: A LA-ICP-MS and SHRIMP U–Th–Pb study. <i>Chemical Geology</i> , 2007, 245, 162-182.	1.4	122
38	Age constraints on metamorphism and the development of a metamorphic core complex in Fiordland, southern New Zealand. <i>Geology</i> , 1988, 16, 405.	2.0	121
39	Crustal evolution of New Zealand: Evidence from age distributions of detrital zircons in Western Province paragneisses and Torlesse greywacke. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 911-920.	1.6	120
40	Ion microprobe dating of Paleozoic granitoids: Devonian magmatism in New Zealand and correlations with Australia and Antarctica. <i>Chemical Geology</i> , 1996, 127, 191-210.	1.4	118
41	Isotopic records in CM hibonites: Implications for timescales of mixing of isotope reservoirs in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5051-5079.	1.6	113
42	U-Pb, Th-Pb and Ar-Ar geochronology from the southern Sierras Pampeanas, Argentina: implications for the Palaeozoic tectonic evolution of the western Gondwana margin. <i>Geological Society Special Publication</i> , 1998, 142, 259-281.	0.8	110
43	The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. <i>Nature Communications</i> , 2019, 10, 1291.	5.8	99
44	Basement geology of Taranaki and Wanganui Basins, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 1997, 40, 223-236.	1.0	97
45	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	6.0	97
46	New Perspectives on the Bishop Tuff from Zircon Textures, Ages and Trace Elements. <i>Journal of Petrology</i> , 2014, 55, 395-426.	1.1	96
47	Extension of Delamerian (Ross) orogen into western New Zealand: Evidence from zircon ages and implications for crustal growth along the Pacific margin of Gondwana. <i>Geology</i> , 1996, 24, 1087.	2.0	94
48	No mass-independent sulfur isotope fractionation in auriferous fluids supports a magmatic origin for Archean gold deposits. <i>Geology</i> , 2013, 41, 791-794.	2.0	92
49	Intraplate origin of komatiites inferred from trace elements in glass inclusions. <i>Nature</i> , 1993, 365, 432-434.	13.7	91
50	Evidence for distillation in the formation of HAL and related hibonite inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2503-2520.	1.6	87
51	Ion microprobe U–Pb zircon geochronology of granitic magmatism in the Western Province of the South Island, New Zealand. <i>Chemical Geology</i> , 1994, 113, 171-189.	1.4	87
52	Hibonite-bearing microspherules: A new type of refractory inclusions with large isotopic anomalies. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 367-379.	1.6	86
53	Trace Element Content of Pyrite from the Kapai Slate, St. Ives Gold District, Western Australia. <i>Economic Geology</i> , 2016, 111, 1297-1320.	1.8	86
54	Granulite formation during continental extension in Fiordland, New Zealand. <i>Nature</i> , 1995, 375, 479-482.	13.7	83

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55	Globally asynchronous sulphur isotope signals require re-definition of the Great Oxidation Event. <i>Nature Communications</i> , 2018, 9, 2245.	5.8	82
56	Trace-element abundances in hibonites from the Murchison carbonaceous chondrite: Constraints on high-temperature processes in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2841-2854.	1.6	76
57	Development of SHRIMP. <i>Australian Journal of Earth Sciences</i> , 2008, 55, 937-954.	0.4	76
58	Large Ca-48 anomalies are associated with Ti-50 anomalies in Murchison and Murray hibonites. <i>Astrophysical Journal</i> , 1986, 311, L103.	1.6	74
59	SHRIMP Uâ€Pb geochronology of Cretaceous magmatism in northwest Nelsonâ€Westland, South Island, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 1997, 40, 453-463.	1.0	73
60	Age profile of ophiolitic rocks across the Late Palaeozoic New England Orogen, New South Wales: Implications for tectonic models. <i>Australian Journal of Earth Sciences</i> , 1995, 42, 11-23.	0.4	72
61	Isotopic enhancements of ¹⁷ O and ¹⁸ O from solar wind particles in the lunar regolith. <i>Nature</i> , 2006, 440, 776-778.	13.7	71
62	Synsedimentary to Early Diagenetic Gold in Black Shale-Hosted Pyrite Nodules at the Golden Mile Deposit, Kalgoorlie, Western Australia. <i>Economic Geology</i> , 2015, 110, 1157-1191.	1.8	70
63	Field and Geochemical Constraints on Mafic-Felsic Interactions, and Processes in High-level Arc Magma Chambers: an Example from the Halfmoon Pluton, New Zealand. <i>Journal of Petrology</i> , 2010, 51, 1477-1505.	1.1	68
64	Geochemistry of the Karamea Batholith, New Zealand and comparisons with the Lachlan Fold Belt granites of SE Australia. <i>Lithos</i> , 1996, 39, 1-20.	0.6	66
65	Geochemistry and Osâ€Ndâ€Sr isotopes of the Gaositai Alaskan-type ultramafic complex from the northern North China craton: implications for mantleâ€crust interaction. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 683-702.	1.2	65
66	Deconvolving episodic age spectra from zircons of the Ladakh Batholith, northwest Indian Himalaya. <i>Chemical Geology</i> , 2011, 289, 179-196.	1.4	64
67	Arcâ€continent collision and orogenesis in western Tasmanides: Insights from reactivated basement structures and formation of an oceanâ€continent transform boundary off western Tasmania. <i>Gondwana Research</i> , 2011, 19, 608-627.	3.0	64
68	Regional implications of U/Pb SHRIMP age constraints on the tectonic evolution of New Caledonia. <i>Tectonophysics</i> , 1998, 299, 333-343.	0.9	63
69	Late Pleistocene granodiorite beneath Crater Lake caldera, Oregon, dated by ion microprobe. <i>Geology</i> , 2000, 28, 467.	2.0	63
70	The elemental abundances (with uncertainties) of the most Earth-like planet. <i>Icarus</i> , 2018, 299, 460-474.	1.1	63
71	The Solar System's Earliest Chemistry: Systematics of Refractory Inclusions. <i>International Geology Review</i> , 2000, 42, 865-894.	1.1	62
72	Provenance analysis using conglomerate clast lithologies: a case study from the Pahau terrane of New Zealand. <i>Sedimentary Geology</i> , 2004, 167, 57-89.	1.0	62

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73	A tale of two eras: Pliocene-Pleistocene unroofing of Cenozoic and late Archean zircons from active metamorphic core complexes, Solomon Sea, Papua New Guinea. <i>Geology</i> , 1995, 23, 1023.	2.0	61
74	Stratigraphy and structure of the Ngatamariki geothermal system from new zircon U–Pb geochronology: Implications for Taupo Volcanic Zone evolution. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 274, 51-70.	0.8	61
75	Geochronology and geochemistry of high-pressure granulites of the Arthur River Complex, Fiordland, New Zealand: Cretaceous magmatism and metamorphism on the palaeo-Pacific Margin. <i>Journal of Metamorphic Geology</i> , 2003, 21, 299-313.	1.6	60
76	Charge-mode electrometer measurements of S-isotopic compositions on SHRIMP-SI. <i>International Journal of Mass Spectrometry</i> , 2014, 359, 26-37.	0.7	60
77	Field characteristics, petrography, and geochronology of the Hohonu Batholith and the adjacent Granite Hill Complex, North Westland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 1997, 40, 1-17.	1.0	59
78	The regional significance of Cretaceous magmatism and metamorphism in Fiordland, New Zealand, from U-Pb zircon geochronology. <i>Journal of Metamorphic Geology</i> , 2004, 22, 607-627.	1.6	59
79	Tectonic Evolution of the Western Margin of the Burma Microplate Based on New Fossil and Radiometric Age Constraints. <i>Tectonics</i> , 2019, 38, 1718-1741.	1.3	59
80	530 Ma zircon age for ophiolite from the New England orogen: Oldest rocks known from eastern Australia. <i>Geology</i> , 1992, 20, 125.	2.0	57
81	Detrital zircon age patterns and provenance in late Paleozoic–early Mesozoic New Zealand terranes and development of the paleo-Pacific Gondwana margin. <i>Geology</i> , 1997, 25, 939.	2.0	55
82	Neutron Activation Analysis of a Particle Returned from Asteroid Itokawa. <i>Science</i> , 2011, 333, 1119-1121.	6.0	55
83	Adakitic rocks associated with the Shilu copper–molybdenum deposit in the Yangchun Basin, South China, and their tectonic implications. <i>Acta Geochimica</i> , 2017, 36, 132-150.	0.7	55
84	Rare earth element chemistry of zircon and its use as a provenance indicator. <i>Geology</i> , 2000, 28, 627-630.	2.0	54
85	The chemical conditions of the late Archean Hamersley basin inferred from whole rock and pyrite geochemistry with ^{33}S and ^{34}S isotope analyses. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 223-250.	1.6	53
86	The formation mechanisms of sedimentary pyrite nodules determined by trace element and sulfur isotope microanalysis. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 53-68.	1.6	53
87	8. Considerations in Zircon Geochronology by SIMS. , 2003, , 215-242.		51
88	The detrital zircon U–Pb–Hf fingerprint of the northern Arabian–Nubian Shield as reflected by a Late Ediacaran arkosic wedge (Zenifim Formation; subsurface Israel). <i>Precambrian Research</i> , 2015, 266, 1-11.	1.2	51
89	Post-supereruption Magmatic Reconstruction of Taupo Volcano (New Zealand), as Reflected in Zircon Ages and Trace Elements. <i>Journal of Petrology</i> , 2014, 55, 1511-1533.	1.1	49
90	Zircon geochemistry of two contrasting types of eclogite: Implications for the tectonic evolution of the North Qaidam UHPM belt, northern Tibet. <i>Gondwana Research</i> , 2016, 35, 27-39.	3.0	49

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91	Reconnaissance Basement Geology and Tectonics of South Zealandia. <i>Tectonics</i> , 2019, 38, 516-551.	1.3	46
92	Simultaneous resetting of the muscovite K ⁴⁰ Ar and monazite U ²³⁸ Pb geochronometers: a story of fluids. <i>Terra Nova</i> , 2011, 23, 390-398.	0.9	45
93	Zircon U ²³⁸ Pb, O, and Hf isotopic constraints on Mesozoic magmatism in the Cyclades, Aegean Sea, Greece. <i>International Journal of Earth Sciences</i> , 2015, 104, 75-87.	0.9	44
94	U-Th-Pb systematics of individual perovskite grains from the Allende and Murchison carbonaceous chondrites. <i>Earth and Planetary Science Letters</i> , 1990, 101, 379-387.	1.8	43
95	Mylonites of the South Armorican Shear Zone: Insights for crustal-scale fluid flow and water-rock interaction processes. <i>Journal of Geodynamics</i> , 2012, 56-57, 86-107.	0.7	43
96	Isotopically anomalous Ti in presolar SiC from the Murchison meteorite. <i>Astrophysical Journal</i> , 1991, 376, L53.	1.6	43
97	Global atmospheric oxygen variations recorded by Th/U systematics of igneous rocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18854-18859.	3.3	40
98	Ages of Silurian radiolarians from the Kurosegawa terrane, southwest Japan constrained by U/Pb SHRIMP data. <i>Journal of Southeast Asian Earth Sciences</i> , 1996, 14, 53-70.	0.2	39
99	Timing of global crustal metamorphism on Vesta as revealed by high-precision U ²³⁸ Pb dating and trace element chemistry of eucrite zircon. <i>Earth and Planetary Science Letters</i> , 2015, 409, 182-192.	1.8	39
100	Oceanic anoxic events, subduction style and molybdenum mineralization. <i>Solid Earth Sciences</i> , 2016, 1, 64-73.	0.8	39
101	Titanium isotopic anomalies in hibonites from the Murchison carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 1989-1993.	1.6	37
102	Invited Review Article: Recent developments in isotope-ratio mass spectrometry for geochemistry and cosmochemistry. <i>Review of Scientific Instruments</i> , 2013, 84, 011101.	0.6	37
103	Provenance of the sedimentary Rakaia sub-terrane, Torlesse Terrane, South Island, New Zealand: the use of igneous clast compositions to define the source. <i>Sedimentary Geology</i> , 2004, 168, 193-226.	1.0	36
104	U ²³⁸ Pb geochronology of Permian plutonic rocks, Longwood Range, New Zealand: implications for Median Batholith-Brook Street Terrane relations. <i>New Zealand Journal of Geology, and Geophysics</i> , 2014, 57, 65-85.	1.0	36
105	Comparative geochemical study of scheelite from the Shizhuyuan and Xianglushan tungsten skarn deposits, South China: Implications for scheelite mineralization. <i>Ore Geology Reviews</i> , 2019, 109, 448-464.	1.1	36
106	Equilibration and reaction in Archaean quartz-sapphirine granulite xenoliths from the Lace kimberlite pipe, South Africa. <i>Journal of Metamorphic Geology</i> , 1997, 15, 253-266.	1.6	35
107	Triple oxygen isotope variations in magnetite from iron-oxide deposits, central Iran, record magmatic fluid interaction with evaporite and carbonate host rocks. <i>Geology</i> , 2020, 48, 211-215.	2.0	34
108	TUNGSTEN ISOTOPIC COMPOSITIONS IN STARDUST SiC GRAINS FROM THE MURCHISON METEORITE: CONSTRAINTS ON THE s _i -PROCESS IN THE Hf-Ta-W-Re-Os REGION. <i>Astrophysical Journal</i> , 2012, 744, 49.	1.6	32

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109	Temporal evolution and compositional signatures of two supervolcanic systems recorded in zircons from Mangakino volcanic centre, New Zealand. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	1.2	32
110	Multiple Sulfur Isotope Analyses Support a Magmatic Model for the Volcanogenic Massive Sulfide Deposits of the Teutonic Bore Volcanic Complex, Yilgarn Craton, Western Australia. <i>Economic Geology</i> , 2015, 110, 1411-1423.	1.8	32
111	Microinclusions in monocrystalline octahedral diamonds and coated diamonds from Diavik, Slave Craton: Clues to diamond genesis. <i>Lithos</i> , 2009, 112, 724-735.	0.6	31
112	Petrology and geochemistry of dunites, chromitites and mineral inclusions from the Gaositai Alaskan-type complex, North China Craton: Implications for mantle source characteristics. <i>Lithos</i> , 2011, 127, 165-175.	0.6	30
113	U–Pb dating of zircon in hydrothermally altered rocks of the Kawerau Geothermal Field, Taupo Volcanic Zone, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 253, 97-113.	0.8	30
114	Dating the Oldest Rocks and Minerals in the Solar System. <i>Elements</i> , 2013, 9, 39-44.	0.5	30
115	Zircon in amphibolites from Naxos, Aegean Sea, Greece: origin, significance and tectonic setting. <i>Journal of Metamorphic Geology</i> , 2017, 35, 413-434.	1.6	30
116	Origin of Lower Cretaceous (Nubian) sandstones of North-east Africa and Arabia from detrital zircon U–Pb SHRIMP dating. <i>Sedimentology</i> , 2009, 56, 2010-2023.	1.6	29
117	Formation of chondrules in magnetic winds blowing through the proto-asteroid belt. <i>Earth and Planetary Science Letters</i> , 2012, 327-328, 61-67.	1.8	29
118	The age of (a tiny part of) the Australian continent. <i>Nature</i> , 1985, 317, 559-560.	13.7	28
119	Provenance connections between late Neoproterozoic and early Palaeozoic sedimentary basins of the Ross Sea region, Antarctica, south-east Australia and southern Zealandia. <i>Antarctic Science</i> , 2014, 26, 173-182.	0.5	28
120	Pyrite trace-element and sulfur isotope geochemistry of paleo-mesoproterozoic McArthur Basin: Proxy for oxidative weathering. <i>American Mineralogist</i> , 2019, 104, 1256-1272.	0.9	28
121	Black Giants Anorthosite, New Zealand: A Paleozoic analogue of Archean stratiform anorthosites and implications for the formation of Archean high-grade gneiss terranes. <i>Geology</i> , 1999, 27, 131.	2.0	27
122	Large heterogeneous ²⁶ Mg excesses in a hibonite from the Murchison meteorite. <i>Nature</i> , 1987, 327, 689-692.	13.7	25
123	SHRIMP ion probe zircon geochronology and Sr and Nd isotope geochemistry for southern Longwood Range and Bluff Peninsula intrusive rocks of Southland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2006, 49, 291-303.	1.0	25
124	Enhanced constraints on the interior composition and structure of terrestrial exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 2222-2233.	1.6	25
125	Magnesium isotopic compositions of olivine, spinel, and hibonite from the Murchison carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 1413-1421.	1.6	24
126	Experimental constraints on hydrogen diffusion in garnet. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	1.2	24

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127	Paragenesis and composition of ore minerals in the Randalls BIF-hosted gold deposits, Yilgarn Craton, Western Australia: Implications for the timing of deposit formation and constraints on gold sources. <i>Precambrian Research</i> , 2014, 243, 110-132.	1.2	23
128	SW Pacific arc and backarc lavas and the role of slab-bend serpentinites in the global halogen cycle. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115921.	1.8	22
129	Oxygen Isotopes and Sampling of the Solar System. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	22
130	The Pounamu terrane, a new Cretaceous exotic terrane within the Alpine Schist, New Zealand; tectonically emplaced, deformed and metamorphosed during collision of the LIP Hikurangi Plateau with Zealandia. <i>Gondwana Research</i> , 2015, 27, 1255-1269.	3.0	21
131	The volatility trend of protosolar and terrestrial elemental abundances. <i>Icarus</i> , 2019, 328, 287-305.	1.1	21
132	High-Precision, High-Accuracy Oxygen Isotope Measurements of Zircon Reference Materials with the SHRIMP-CS. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 85-102.	1.7	21
133	Autochthonous inheritance of zircon through Cretaceous partial melting of Carboniferous plutons: the Arthur River Complex, Fiordland, New Zealand. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 401-421.	1.2	20
134	Carbonated mantle domains at the base of the Earth's transition zone. <i>Chemical Geology</i> , 2018, 478, 69-75.	1.4	20
135	New U, Pb, Hf and O isotope constraints on the provenance of sediments from the Adelaide Rift Complex – Documenting the key Neoproterozoic to early Cambrian succession. <i>Gondwana Research</i> , 2020, 83, 248-278.	3.0	20
136	Chromium isotopic anomalies in the Murchison meteorite. <i>Earth and Planetary Science Letters</i> , 1989, 92, 1-6.	1.8	19
137	Comment and Reply on "Age constraints on metamorphism and the development of a metamorphic core complex in Fiordland, southern New Zealand". <i>Geology</i> , 1989, 17, 380.	2.0	19
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