Chris L Kirkland

List of Publications by Year
in descending order

227 papers	8,736 citations	38660 50 h-index	60497 81 g-index
235 all docs	235 docs citations	235 times ranked	4156 citing authors

#	Article	IF	Citations
1	Strategies towards statistically robust interpretations of in situ Uâ€"Pb zircon geochronology. Geoscience Frontiers, 2016, 7, 581-589.	4.3	503
2	Zircon Th/U ratios in magmatic environs. Lithos, 2015, 212-215, 397-414.	0.6	356
3	Earthâ€™s first stable continents did not form by subduction. Nature, 2017, 543, 239-242.	13.7	304
4	Th/U ratios in metamorphic zircon. Journal of Metamorphic Geology, 2018, 36, 715-737.	1.6	267
5	High-Temperature Granite Magmatism, Crustâ€"Mantle Interaction and the Mesoproterozoic Intracontinental Evolution of the Musgrave Province, Central Australia. Journal of Petrology, 2011, 52, 931-958.	1.1	147
6	Accessories after the facts: Constraining the timing, duration and conditions of high-temperature metamorphic processes. Lithos, 2016, 264, 239-257.	0.6	136
7	Provenance and Terrane Evolution of the Kalak Nappe Complex, Norwegian Caledonides: Implications for Neoproterozoic Paleogeography and Tectonics. Journal of Geology, 2007, 115, 21-41.	0.7	128
8	Archean komatiite volcanism controlled by the evolution of early continents. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10083-10088.	3.3	125
9	Detrital zircon fingerprint of the Proto-Andes: Evidence for a Neoproterozoic active margin?. Precambrian Research, 2008, 167, 186-200.	1.2	123
10	On the edge: Uâ€"Pb, Luâ€"Hf, and Smâ€"Nd data suggests reworking of the Yilgarn craton margin during formation of the Albany-Fraser Orogen. Precambrian Research, 2011, 187, 223-247.	1.2	116
11	Strengths and limitations of zircon Lu-Hf and O isotopes in modelling crustal growth. Lithos, 2016, 248-251, 175-192.	0.6	110
12	Granitic magmatism of Grenvillian and late Neoproterozoic age in Finnmark, Arctic Norwayâ€"Constraining pre-Scandian deformation in the Kalak Nappe Complex. Precambrian Research, 2006, 145, 24-52.	1.2	108
13	Transformation of an Archean craton margin during Proterozoic basin formation and magmatism: The Albanyâ€"Fraser Orogen, Western Australia. Precambrian Research, 2015, 266, 440-466.	1.2	108
14	Apatite: a U-Pb thermochronometer or geochronometer?. Lithos, 2018, 318-319, 143-157.	0.6	108
15	Seeing is believing: Visualization of He distribution in zircon and implications for thermal history reconstruction on single crystals. Science Advances, 2017, 3, e1601121.	4.7	101
16	A Palaeoproterozoic tectono-magmatic lull as a potential trigger for the supercontinent cycle. Nature Geoscience, 2018, 11, 97-101.	5.4	98
17	Timing of ophiolite obduction in the Grampian orogen. Bulletin of the Geological Society of America, 2010, 122, 1787-1799.	1.6	97
18	No evidence for high-pressure melting of Earthâ€™s crust in the Archean. Nature Communications, 2019, 10, 5559.	5.8	97

#	Article	IF	Citations
19	Strategies towards robust interpretations of in situ zircon Luâ€“Hf isotope analyses. Geoscience Frontiers, 2020, 11, 843-853.	4.3	97
20	Fluid-assisted zircon and monazite growth within a shear zone: a case study from Finnmark, Arctic Norway. Contributions To Mineralogy and Petrology, 2009, 158, 637-657.	1.2	96
21	Constraints and deception in the isotopic record; the crustal evolution of the west Musgrave Province, central Australia. Gondwana Research, 2013, 23, 759-781.	3.0	96
22	Secular change in TTG compositions: Implications for the evolution of Archaean geodynamics. Earth and Planetary Science Letters, 2019, 505, 65-75.	1.8	94
23	Long-lived, autochthonous development of the Archean Murchison Domain, and implications for Yilgarn Craton tectonics. Precambrian Research, 2013, 229, 49-92.	1.2	92
24	Two collisions, two sutures: Punctuated pre-1950Ma assembly of the West Australian Craton during the Ophthalmian and Glenburgh Orogenies. Precambrian Research, 2011, 189, 239-262.	1.2	88
25	Hf isotopes in detrital and inherited zircons of the Pilbara Craton provide no evidence for Hadean continents. Precambrian Research, 2015, 261, 112-126.	1.2	88
26	The late Mesoproterozoicâ€“early Neoproterozoic tectonostratigraphic evolution of NW Scotland: the Torridonian revisited. Journal of the Geological Society, 2007, 164, 541-551.	0.9	78
27	The tectonic and metallogenic framework of Myanmar: A Tethyan mineral system. Ore Geology Reviews, 2016, 79, 26-45.	1.1	78
28	The burning heart â€" The Proterozoic geology and geological evolution of the west Musgrave Region, central Australia. Gondwana Research, 2015, 27, 64-94.	3.0	77
29	The crustal architecture of Myanmar imaged through zircon U-Pb, Lu-Hf and O isotopes: Tectonic and metallogenic implications. Gondwana Research, 2018, 62, 27-60.	3.0	76
30	Detrital zircon signature of the Moine Supergroup, Scotland: Contrasts and comparisons with other Neoproterozoic successions within the circum-North Atlantic region. Precambrian Research, 2008, 163, 332-350.	1.2	74
31	Basementâ€“cover relationships of the Kalak Nappe Complex, Arctic Norwegian Caledonides and constraints on Neoproterozoic terrane assembly in the North Atlantic region. Precambrian Research, 2008, 160, 245-276.	1.2	73
32	Contrasting Granite Metallogeny through the Zircon Record: A Case Study from Myanmar. Scientific Reports, 2017, 7, 748.	1.6	72
33	Proterozoic granulite formation driven by mafic magmatism: An example from the Fraser Range Metamorphics, Western Australia. Precambrian Research, 2014, 240, 1-21.	1.2	71
34	Oxygen isotopes trace the origins of Earthâ€™s earliest continental crust. Nature, 2021, 592, 70-75.	13.7	71
35	Fault rock lithologies and architecture of the central Alpine fault, New Zealand, revealed by DFDP-1 drilling. Lithosphere, 2015, 7, 155-173.	0.6	70
36	Adding pieces to the puzzle: episodic crustal growth and a new terrane in the northeast Yilgarn Craton, Western Australia. Australian Journal of Earth Sciences, 2012, 59, 603-623.	0.4	68

#	Article	IF	Citations
37	Crustal evolution, intra-cratonic architecture and the metallogeny of an Archaean craton. Geological Society Special Publication, 2015, 393, 23-80.	0.8	68
38	Age and significance of voluminous maficâ€"ultramafic magmatic events in the Murchison Domain, Yilgarn Craton. Australian Journal of Earth Sciences, 2010, 57, 597-614.	0.4	67
39	Processes of crust formation in the early Earth imaged through Hf isotopes from the East Pilbara Terrane. Precambrian Research, 2017, 297, 56-76.	1.2	67
40	Time-space evolution of an Archean craton: A Hf-isotope window into continent formation. Earth-Science Reviews, 2019, 196, 102831.	4.0	66
41	Isotopic constraints on stratigraphy in the central and eastern Yilgarn Craton, Western Australia. Australian Journal of Earth Sciences, 2012, 59, 657-670.	0.4	65
42	Neoproterozoic palaeogeography in the North Atlantic Region: Inferences from the Akkajaure and Seve Nappes of the Scandinavian Caledonides. Precambrian Research, 2011, 186, 127-146.	1.2	59
43	Apatite and titanite from the Karrat Group, Greenland; implications for charting the thermal evolution of crust from the U-Pb geochronology of common Pb bearing phases. Precambrian Research, 2017, 300, 107-120.	1.2	56
44	Visualizing the sedimentary response through the orogenic cycle: A multidimensional scaling approach. Lithosphere, 2016, 8, 29-37.	0.6	54
45	Proterozoic crustal evolution of the Eucla basement, Australia: Implications for destruction of oceanic crust during emergence of Nuna. Lithos, 2017, 278-281, 427-444.	0.6	54
46	Source to sink zircon grain shape: Constraints on selective preservation and significance for Western Australian Proterozoic basin provenance. Geoscience Frontiers, 2018, 9, 415-430.	4.3	54
47	Provenance record from Mesoproterozoic-Cambrian sediments of Peary Land, North Greenland: Implications for the ice-covered Greenland Shield and Laurentian palaeogeography. Precambrian Research, 2009, 170, 43-60.	1.2	53
48	Pâ€"Tâ€"t evolution of a large, long-lived, ultrahigh-temperature Grenvillian belt in central Australia. Gondwana Research, 2015, 28, 531-564.	3.0	53
49	The Juvenile Hafnium Isotope Signal as a Record of Supercontinent Cycles. Scientific Reports, 2016, 6, 38503.	1.6	53
50	Building Mesoarchaean crust upon Eoarchaean roots: the Akia Terrane, West Greenland. Contributions To Mineralogy and Petrology, 2019, 174, 1.	1.2	53
51	The Mesoproterozoic thermal evolution of the Musgrave Province in central Australia â€" Plume vs. the geological record. Gondwana Research, 2015, 27, 1419-1429.	3.0	52
52	Zircon Luâ€"Hf isotopes and granite geochemistry of the Murchison Domain of the Yilgarn Craton: Evidence for reworking of Eoarchean crust during Meso-Neoarchean plume-driven magmatism. Lithos, 2012, 148, 112-127.	0.6	51
53	Orogenic climax of Earth: The 1.2-1.1 Ga Grenvillian superevent. Geology, 2013, 41, 735-738.	2.0	51
54	Grain size matters: Implications for element and isotopic mobility in titanite. Precambrian Research, 2016, 278, 283-302.	1.2	51

#	Article	IF	Citations
55	Devil in the detail; The 1150â€“1000Ma magmatic and structural evolution of the Ngaanyatjarra Rift, west Musgrave Province, Central Australia. Precambrian Research, 2010, 183, 572-588.	1.2	50
56	Age and paleomagnetism of the 1210Ma Gnowangerupâ€“Fraser dyke swarm, Western Australia, and implications for late Mesoproterozoic paleogeography. Precambrian Research, 2014, 246, 1-15.	1.2	50
57	Evolution of geodynamics since the Archean: Significant change at the dawn of the Phanerozoic. Geology, 2020, 48, 488-492.	2.0	48
58	Assessing the mechanisms of common Pb incorporation into titanite. Chemical Geology, 2018, 483, 558-566.	1.4	47
59	Foreign contemporaries â€“ Unravelling disparate isotopic signatures from Mesoproterozoic Central and Western Australia. Precambrian Research, 2015, 265, 218-231.	1.2	46
60	Conditioned duality of the Earth system: Geochemical tracing of the supercontinent cycle through Earth history. Earth-Science Reviews, 2016, 160, 171-187.	4.0	46
61	Linking the Windmill Islands, east Antarctica and the Albanyâ€“Fraser Orogen: Insights from Uâ€“Pb zircon geochronology and Hf isotopes. Precambrian Research, 2017, 293, 131-149.	1.2	46
62	Unravelling complex geologic histories using Uâ€“Pb and trace element systematics of titanite. Chemical Geology, 2019, 504, 105-122.	1.4	46
63	An impact melt origin for Earthâ€™s oldest known evolved rocks. Nature Geoscience, 2018, 11, 795-799.	5.4	45
64	Petrogenesis and Niâ€“Cu sulphide potential of maficâ€“ultramafic rocks in the Mesoproterozoic Fraser Zone within the Albanyâ€“Fraser Orogen, Western Australia. Precambrian Research, 2016, 281, 27-46.	1.2	44
65	Shocked monazite chronometry: integrating microstructural and in situ isotopic age data for determining precise impact ages. Contributions To Mineralogy and Petrology, 2017, 172, 1.	1.2	44
66	Time-resolved, defect-hosted, trace element mobility in deformed Witwatersrand pyrite. Geoscience Frontiers, 2019, 10, 55-63.	4.3	44
67	Precise radiometric age establishes Yarrabubba, Western Australia, as Earthâ€™s oldest recognised meteorite impact structure. Nature Communications, 2020, 11, 300.	5.8	44
68	Spatio-temporal constraints on lithospheric development in the southwestâ€“central Yilgarn Craton, Western Australia. Australian Journal of Earth Sciences, 2012, 59, 625-656.	0.4	43
69	The affinity of Archean crust on the Yilgarnâ€”Albanyâ€“Fraser Orogen boundary: Implications for gold mineralisation in the Tropicana Zone. Precambrian Research, 2015, 266, 260-281.	1.2	43
70	Trace elements in titanite: A potential tool to constrain polygenetic growth processes and timing. Chemical Geology, 2019, 509, 1-19.	1.4	43
71	Paleoproterozoic increase in zircon Î´18O driven by rapid emergence of continental crust. Geochimica Et Cosmochimica Acta, 2019, 257, 16-25.	1.6	41
72	U-Pb and Hf isotopic evidence for Neoarchean and Paleoproterozoic basement in the buried northern Gawler Craton, South Australia. Precambrian Research, 2014, 250, 127-142.	1.2	40

#	Article	IF	Citations
73	Magma-driven, high-grade metamorphism in the Sveconorwegian Province, southwest Norway, during the terminal stages of Fennoscandian Shield evolution. , 2018, 14, 861-882.		40
74	The Finnmarkian Orogeny revisited: An isotopic investigation in eastern Finnmark, Arctic Norway. Tectonophysics, 2008, 460, 158-177.	0.9	39
75	Oxygen isotopes in Pilbara Craton zircons support a global increase in crustal recycling at 3.2 Ga. Lithos, 2015, 228-229, 90-98.	0.6	39
76	Nanoscale distribution of Pb in monazite revealed by atom probe microscopy. Chemical Geology, 2018, 479, 251-258.	1.4	39
77	Discriminating prolonged, episodic or disturbed monazite age spectra: An example from the Kalak Nappe Complex, Arctic Norway. Chemical Geology, 2016, 424, 96-110.	1.4	38
78	Implications of erosion and bedrock composition on zircon fertility: Examples from South America and Western Australia. Terra Nova, 2018, 30, 289-295.	0.9	38
79	Neoproterozoic glaciation in the Proto-Andes: Tectonic implications and global correlation. Geology, 2007, 35, 1095.	2.0	37
80	Early Silurian magmatism and the Scandian evolution of the Kalak Nappe Complex, Finnmark, Arctic Norway. Journal of the Geological Society, 2005, 162, 985-1003.	0.9	36
81	The structure and timing of lateral escape during the Scandian Orogeny: A combined strain and geochronological investigation in Finnmark, Arctic Norwegian Caledonides. Tectonophysics, 2006, 425, 159-189.	0.9	36
82	Melting controls on the lutetiumâ€“hafnium evolution of Archaean crust. Precambrian Research, 2018, 305, 479-488.	1.2	35
83	Provenance of Neoproterozoic sediments in the SÃrv nappes (Middle Allochthon) of the Scandinavian Caledonides: LA-ICP-MS and SIMS Uâ€“Pb dating of detrital zircons. Precambrian Research, 2011, 187, 181-200.	1.2	34
84	A geochronological review of magmatism along the external margin of Columbia and in the Grenville-age orogens forming the core of Rodinia. Precambrian Research, 2022, 371, 106463.	1.2	34
85	An isotopic perspective on growth and differentiation of Proterozoic orogenic crust: From subduction magmatism to cratonization. Lithos, 2017, 268-271, 76-86.	0.6	33
86	Crustal reworking and orogenic styles inferred from zircon Hf isotopes: Proterozoic examples from the North Atlantic region. Geoscience Frontiers, 2019, 10, 417-424.	4.3	33
87	Titanite petrochronology linked to phase equilibrium modelling constrains tectono-thermal events in the Akia Terrane, West Greenland. Chemical Geology, 2020, 536, 119467.	1.4	33
88	Structure and timing of Neoarchean gold mineralization in the Southern Cross district (Yilgarn) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 Structural Geology, 2014, 67, 205-221.	1.0	32
89	Variations in Zircon Provenance Constrain Age and Geometry of an Early Paleozoic Rift in the Pinjarra Orogen, East Gondwana. Tectonics, 2017, 36, 2477-2496.	1.3	32
90	Mesoarchean exhumation of the Akia terrane and a common Neoarchean tectonothermal history for West Greenland. Precambrian Research, 2018, 314, 129-144.	1.2	32

#	Article	IF	Citations
91	Tracking sediment dispersal during orogenesis: A zircon age and Hf isotope study from the western Amadeus Basin, Australia. Gondwana Research, 2016, 37, 324-347.	3.0	31
92	Mesoarchean partial melting of mafic crust and tonalite production during high-Tâ€“low-P stagnant tectonism, Akia Terrane, West Greenland. Precambrian Research, 2020, 339, 105615.	1.2	30
93	Breaking the Grenvilleâ€“Sveconorwegian link in Rodinia reconstructions. Terra Nova, 2019, 31, 430-437.	0.9	29
94	Tectonic evolution of the Arctic Norwegian Caledonides from a texturally- and structurally-constrained multi-isotopic (Ar-Ar, Rb-Sr, Sm-Nd, U-Pb) study. Numerische Mathematik, 2007, 307, 459-526.	0.7	28
95	Not-so-suspect terrane: Constraints on the crustal evolution of the Rudall Province. Precambrian Research, 2013, 235, 131-149.	1.2	28
96	Tectonomagmatic evolution of the Early Ordovician suprasubduction-zone ophiolites of the Trondheim Region, Mid-Norwegian Caledonides. Geological Society Special Publication, 2014, 390, 541-561.	0.8	28
97	Early Cambrian metamorphic zircon in the northern Pinjarra Orogen: Implications for the structure of the West Australian Craton margin. Lithosphere, 2017, 9, 3-13.	0.6	28
98	Timing of collision initiation and location of the Scandian orogenic suture in the Scandinavian Caledonides. Terra Nova, 2018, 30, 179-188.	0.9	28
99	Widespread reworking of Hadean-to-Eoarchean continents during Earthâ€™s thermal peak. Nature Communications, 2021, 12, 331.	5.8	28
100	Resolving multiple geological events using in situ Rbâ€“Sr geochronology: implications for metallogenesis at Tropicana, Western Australia. Geochronology, 2020, 2, 283-303.	1.0	28
101	Uâ€“Pb detrital zircon geochronology of the Dalradian Supergroup, Shetland Islands, Scotland: implications for regional correlations and Neoproterozoicâ€“Palaeozoic basin development. Journal of the Geological Society, 2013, 170, 905-916.	0.9	27
102	Buried but preserved: The Proterozoic Arubiddy Ophiolite, Madura Province, Western Australia. Precambrian Research, 2018, 317, 137-158.	1.2	27
103	The complexity of sediment recycling as revealed by common Pb isotopes in K-feldspar. Geoscience Frontiers, 2018, 9, 1515-1527.	4.3	27
104	Deformation-enhanced recrystallization of titanite drives decoupling between U-Pb and trace elements. Earth and Planetary Science Letters, 2021, 560, 116810.	1.8	27
105	Incremental pluton emplacement during inclined transpression. Tectonophysics, 2014, 623, 100-122.	0.9	26
106	Titanite dates crystallization: Slow Pb diffusion during superâ€solidus reâ€equilibration. Journal of Metamorphic Geology, 2019, 37, 823-838.	1.6	26
107	Understanding ancient tectonic settings through detrital zircon analysis. Earth and Planetary Science Letters, 2022, 583, 117425.	1.8	26
108	Carbonate isotope chemostratigraphy suggests revisions to the geological history of the West Finnmark Caledonides, northern Norway. Journal of the Geological Society, 2006, 163, 277-289.	0.9	25

#	Article	IF	Citations
109	Radiogenic heating and cratonâ€margin plate stresses as drivers for intraplate orogeny. Journal of Metamorphic Geology, 2017, 35, 631-661.	1.6	25
110	Sediment routing and basin evolution in Proterozoic to Mesozoic east Gondwana: A case study from southern Australia. Gondwana Research, 2018, 58, 122-140.	3.0	25
111	Every zircon deserves a date: selection bias in detrital geochronology. Geological Magazine, 2021, 158, 1135-1142.	0.9	25
112	The Sveconorwegian orogeny â€" Reamalgamation of the fragmented southwestern margin of Fennoscandia. Precambrian Research, 2020, 350, 105877.	1.2	24
113	The Archean Fortescue large igneous province: A result of komatiite contamination by a distinct Eo-Paleoarchean crust. Precambrian Research, 2018, 310, 365-390.	1.2	23
114	Melting of a subduction-modified mantle source: A case study from the Archean Marda Volcanic Complex, central Yilgarn Craton, Western Australia. Lithos, 2014, 190-191, 403-419.	0.6	22
115	Petrogenesis of the A-type, Mesoproterozoic Intra-caldera Rheomorphic Kathleen Ignimbrite and Comagmatic Rowland Suite Intrusions, West Musgrave Province, Central Australia: Products of Extreme Fractional Crystallization in a Failed Rift Setting. Journal of Petrology, 2015, 56, 493-525.	1.1	22
116	The use of detrital zircon data in terrane analysis: A nonunique answer to provenance and tectonostratigraphic position in the Scandinavian Caledonides. Lithosphere, 2017, 9, 1002-1011.	0.6	22
117	North Atlantic Craton architecture revealed by kimberlite-hosted crustal zircons. Earth and Planetary Science Letters, 2020, 534, 116091.	1.8	22
118	A new â^¼3.46 Ga asteroid impact ejecta unit at Marble Bar, Pilbara Craton, Western Australia: A petrological, microprobe and laser ablation ICPMS study. Precambrian Research, 2016, 279, 103-122.	1.2	21
119	3â€Ð Characterization of Detrital Zircon Grains and its Implications for Fluvial Transport, Mixing, and Preservation Bias. Geochemistry, Geophysics, Geosystems, 2017, 18, 4655-4673.	1.0	21
120	A gradual transition to plate tectonics on Earth between 3.2 to 2.7 billion years ago. Terra Nova, 2019, 31, 129-134.	0.9	21
121	When will it end? Long-lived intracontinental reactivation in central Australia. Geoscience Frontiers, 2019, 10, 149-164.	4.3	21
122	Reduce or recycle? Revealing source to sink links through integrated zirconâ€"feldspar provenance fingerprinting. Sedimentology, 2021, 68, 531-556.	1.6	21
123	Mechanical twinning of monazite expels radiogenic lead. Geology, 2021, 49, 417-421.	2.0	21
124	Differentiating between Inherited and Autocrystic Zircon in Granitoids. Journal of Petrology, 2020, 61, .	1.1	20
125	Shocked titanite records Chicxulub hydrothermal alteration and impact age. Geochimica Et Cosmochimica Acta, 2020, 281, 12-30.	1.6	20
126	A Laurentian provenance for the Dalradian rocks of north Mayo, Ireland, and evidence for an original basementâ€"cover contact with the underlying Annagh Gneiss Complex. Journal of the Geological Society, 2010, 167, 1033-1048.	0.9	19

#	Article	IF	Citations
127	Isotopic insight into the Proterozoic crustal evolution of the Rudall Province, Western Australia. Precambrian Research, 2018, 313, 31-50.	1.2	19
128	A window into an ancient backarc? The magmatic and metamorphic history of the Fraser Zone, Western Australia. Precambrian Research, 2019, 323, 55-69.	1.2	19
129	Zircon fingerprint of the Neoproterozoic North Atlantic: Perspectives from East Greenland. Precambrian Research, 2020, 342, 105653.	1.2	19
130	Heterogeneously hydrated mantle beneath the late Archean Yilgarn Craton. Lithos, 2015, 238, 76-85.	0.6	18
131	The answers are blowinâ€™ in the wind: Ultra-distal ashfall zircons, indicators of Cretaceous super-eruptions in eastern Gondwana. Geology, 2016, 44, 643-646.	2.0	18
132	Syn-volcanic cannibalisation of juvenile felsic crust: Superimposed giant 18O-depleted rhyolite systems in the hot and thinned crust of Mesoproterozoic central Australia. Earth and Planetary Science Letters, 2015, 424, 15-25.	1.8	17
133	Orogenic paleofluid flow recorded by discordant detrital zircons in the Caledonian foreland basin of northern Greenland. Lithosphere, 2015, 7, 138-143.	0.6	17
134	Spot the difference: Zircon disparity tracks crustal evolution. Geology, 2019, 47, 435-439.	2.0	17
135	Theoretical versus empirical secular change in zircon composition. Earth and Planetary Science Letters, 2021, 554, 116660.	1.8	17
136	Zircon geochronology reveals polyphase magmatism and crustal anatexis in the Buchan Block, NE Scotland: Implications for the Grampian Orogeny. Geoscience Frontiers, 2017, 8, 1469-1478.	4.3	16
137	Zircon grain shape holds provenance information: A case study from southwestern Australia. Geological Journal, 2019, 54, 1279-1293.	0.6	16
138	Resampling (detrital) zircon age distributions for accurate multidimensional scaling solutions. Earth-Science Reviews, 2020, 204, 103149.	4.0	16
139	>2.7 Ga metamorphic peridotites from southeast Greenland record the oxygen isotope composition of Archean seawater. Earth and Planetary Science Letters, 2020, 544, 116331.	1.8	15
140	Effect of water on Î´18O in zircon. Chemical Geology, 2021, 574, 120243.	1.4	15
141	Nanoscale Isotopic Dating of Monazite. Geostandards and Geoanalytical Research, 2020, 44, 637-652.	1.7	15
142	Intrusion and contamination of high-temperature dunitic magma: the Nordre Bumandsfjord pluton, Seiland, Arctic Norway. Contributions To Mineralogy and Petrology, 2013, 165, 903-930.	1.2	14
143	Find a match with triple-dating: Antarctic sub-ice zircon detritus on the modern shore of Western Australia. Earth and Planetary Science Letters, 2020, 531, 115953.	1.8	14
144	Strontium isotope analysis of apatite via SIMS. Chemical Geology, 2021, 559, 119979.	1.4	14

#	Article	IF	Citations
145	The brittle evolution of a major strike-slip fault associated with granite emplacement: a case study of the Leannan Fault, NW Ireland. Journal of the Geological Society, 2008, 165, 341-352.	0.9	13
146	Low Î´18O zircon grains in the Neoarchean Rum Jungle Complex, northern Australia: An indicator of emergent continental crust. Lithosphere, 2014, 6, 17-25.	0.6	13
147	Analysis of the Ragged Basin, Western Australia: Insights into syn-orogenic basin evolution within the Albanyâ€“Fraser Orogen. Precambrian Research, 2015, 261, 166-187.	1.2	13
148	Piggy-back Supervolcanoesâ€"Long-Lived, Voluminous, Juvenile Rhyolite Volcanism in Mesoproterozoic Central Australia. Journal of Petrology, 2015, 56, 735-763.	1.1	13
149	Detrital shocked zircon provides first radiometric age constraint (<1472 Ma) for the Santa Fe impact structure, New Mexico, USA. Bulletin of the Geological Society of America, 2019, 131, 845-863.	1.6	13
150	Modelling the Hafniumâ€“Neodymium Evolution of Early Earth: A Study from West Greenland. Journal of Petrology, 2019, 60, 177-197.	1.1	13
151	Zircon double-dating of Quaternary eruptions on Jeju Island, South Korea. Journal of Volcanology and Geothermal Research, 2021, 410, 107171.	0.8	13
152	Constraints on the timing of Scandian deformation and the nature of a buried Grampian terrane under the Caledonides of northwestern Ireland. Journal of the Geological Society, 2013, 170, 615-625.	0.9	12
153	Cooling and exhumation along the curved Albany-Fraser orogen, Western Australia. Lithosphere, 2016, 8, 551-563.	0.6	12
154	Zircon as a metamorphic timekeeper: A case study from the Caledonides of central Norway. Gondwana Research, 2018, 61, 63-72.	3.0	12
155	Hf isotopic fingerprinting of geodynamic settings: Integrating isotopes and numerical models. Gondwana Research, 2019, 73, 190-199.	3.0	12
156	Zircon Uâ€“Pb, Luâ€“Hf and O isotopes from the 3414â€¯Ma Strelley Pool Formation, East Pilbara Terrane, and the Palaeoarchaean emergence of a cryptic cratonic core. Precambrian Research, 2019, 321, 64-84.	1.2	12
157	Geodynamic Implications of Synchronous Norite and TTG Formation in the 3ÂGa Maniitsoq Norite Belt, West Greenland. Frontiers in Earth Science, 2020, 8, .	0.8	12
158	Coupling sulfur and oxygen isotope ratios in sediment melts across the Archean-Proterozoic transition. Geochimica Et Cosmochimica Acta, 2021, 307, 242-257.	1.6	12
159	The source of Dalradian detritus in the Buchan Block, NE Scotland: application of new tools to detrital datasets. Journal of the Geological Society, 2016, 173, 773-782.	0.9	11
160	Apatite Uâ€“Pb dating and geochemistry of the Kyrgyz South Tian Shan (Central Asia): Establishing an apatite fingerprint for provenance studies. Geoscience Frontiers, 2020, 11, 2003-2015.	4.3	11
161	Thin-section detrital zircon geochronology mitigates bias in provenance investigations. Journal of the Geological Society, 2022, 179, .	0.9	11
162	Gaining from loss: Detrital zircon source-normalized Î±-dose discriminates first- versus multi-cycle grain histories. Earth and Planetary Science Letters, 2022, 579, 117346.	1.8	11

#	Article	IF	Citations
163	AnalyZr: A Python application for zircon grain image segmentation and shape analysis. Computers and Geosciences, 2022, 162, 105057.	2.0	11
164	Large igneous provinces track fluctuations in subaerial exposure of continents across the <scp>Archeanâ€“Proterozoic</scp> transition. Terra Nova, 2022, 34, 323-329.	0.9	11
165	Grampian migmatites in the Buchan Block, NE Scotland. Journal of Metamorphic Geology, 2015, 33, 695-709.	1.6	9
166	Zircon oxygen and hafnium isotope decoupling during regional metamorphism: implications for the generation of low Î´18O magmas. Contributions To Mineralogy and Petrology, 2020, 175, 1.	1.2	9
167	Evaluating zircon initial Hf isotopic composition using a combined SIMSâ€“MC-LASS-ICP-MS approach: A case study from the Coompana Province in South Australia. Chemical Geology, 2020, 558, 119870.	1.4	9
168	A Baltic heritage in Scotland: Basement terrane transfer during the Grenvillian orogeny. Geology, 2020, 48, 1094-1098.	2.0	9
169	Late Neoproterozoicâ€“Silurian tectonic evolution of the RÃ¶dingsfjÃllet Nappe Complex, orogen-scale correlations and implications for the Scandian suture. Geological Society Special Publication, 2021, 503, 279-304.	0.8	9
170	Multi-isotope tracing of the 1.3â€“0.9ÂGa evolution of Fennoscandia; crustal growth during the Sveconorwegian orogeny. Gondwana Research, 2021, 91, 31-39.	3.0	9
171	Nd and Hf isoscapes of the Yilgarn Craton, Western Australia and implications for its mineral systems. Gondwana Research, 2021, 92, 253-265.	3.0	9
172	Regional zircon U-Pb geochronology for the Maniitsoq region, southwest Greenland. Scientific Data, 2021, 8, 139.	2.4	9
173	Detrital apatite <scp>Luâ€“Hf</scp> and <scp>Uâ€“Pb</scp> geochronology applied to the southwestern Siberian margin. Terra Nova, 2022, 34, 201-209.	0.9	9
174	Multi-mineral geochronology: insights into crustal behaviour during exhumation of an orogenic root. Contributions To Mineralogy and Petrology, 2017, 172, 1.	1.2	8
175	An Australian source for Pacific-Gondwanan zircons: Implications for the assembly of northeastern Gondwana. Geology, 0, , G39152.1.	2.0	8
176	Mapping temporal and spatial patterns of zircon U-Pb disturbance: A Yilgarn Craton case study. Gondwana Research, 2017, 52, 39-47.	3.0	8
177	Geochronological constrains on the timing of magmatism, deformation and mineralization at the Karouni orogenic gold deposit: Guyana, South America. Precambrian Research, 2020, 337, 105329.	1.2	8
178	Apatite and monazite: An effective duo to unravel superimposed fluid-flow and deformation events in reactivated shear zones. Lithos, 2020, 376-377, 105752.	0.6	8
179	The Mesoarchaean Akia terrane, West Greenland, revisited: New insights based on spatial integration of geophysics, field observation, geochemistry and geochronology. Precambrian Research, 2021, 352, 105958.	1.2	8
180	Stirred not shaken; critical evaluation of a proposed Archean meteorite impact in West Greenland. Earth and Planetary Science Letters, 2021, 557, 116730.	1.8	8

#	Article	IF	Citations
181	Extracting meaningful U-Pb ages from coreâ€“rim mixtures. Gondwana Research, 2021, 92, 102-112.	3.0	8
182	U-Th-Pb zircon geochronology on igneous rocks in the Toija and Salittu Formations, OrijÃrvi area, southwestern Finland: Constraints on the age of volcanism and metamorphism. Bulletin of the Geological Society of Finland, 2008, 80, 73-87.	0.2	8
183	Applications of Pb isotopes in granite K-feldspar and Pb evolution in the Yilgarn Craton. Geochimica Et Cosmochimica Acta, 2022, 320, 279-303.	1.6	8
184	Geochronological constraints on nickel metallogeny in the Lake Johnston belt, Southern Cross Domain. Australian Journal of Earth Sciences, 2014, 61, 143-157.	0.4	7
185	Using apatite to resolve the age and protoliths of mid-crustal shear zones: A case study from the Taxaquara Shear Zone, SE Brazil. Lithos, 2020, 378-379, 105817.	0.6	7
186	Metasomatic Reactions between Archean Dunite and Trondhjemite at the Seqi Olivine Mine in Greenland. Minerals (Basel, Switzerland), 2020, 10, 85.	0.8	7
187	Mineralization proximal to the final Nuna suture in northeastern Australia. Gondwana Research, 2021, 92, 54-71.	3.0	7
188	Cryptic Disc Structures Resembling Ediacaran Discoidal Fossils from the Lower Silurian Hellefjord Schist, Arctic Norway. PLoS ONE, 2016, 11, e0164071.	1.1	7
189	Pb isotope insight into the formation of the Earth's first stable continents. Earth and Planetary Science Letters, 2022, 578, 117319.	1.8	7
190	Tracking mineralisation with in situ multiple sulphur isotopes: a case study from the Fraser Zone, Western Australia. Precambrian Research, 2019, 332, 105379.	1.2	6
191	Assessing volcanic origins within detrital zircon populations â€“ A case study from the Mesozoic non-volcanic margin of southern Australia. Geoscience Frontiers, 2019, 10, 1371-1381.	4.3	6
192	Changing of the guards: Detrital zircon provenance tracking sedimentological reorganization of a postâ€Gondwanan rift margin. Basin Research, 2020, 32, 854-874.	1.3	6
193	Dating young zircon: A case study from Southeast Asian megacrysts. Geochimica Et Cosmochimica Acta, 2020, 274, 1-19.	1.6	6
194	Resolving the age of the Haughton impact structure using coupled 40Ar/39Ar and U-Pb geochronology. Geochimica Et Cosmochimica Acta, 2021, 304, 68-82.	1.6	6
195	Corundum (ruby) growth during the final assembly of the Archean North Atlantic Craton, southern West Greenland. Ore Geology Reviews, 2021, 138, 104417.	1.1	6
196	Isotopic modelling of Archean crustal evolution from comagmatic zirconâ€“apatite pairs. Earth and Planetary Science Letters, 2021, 575, 117194.	1.8	6
197	Oxygen isotopes in detrital zircons: Insight into crustal recycling during the evolution of the Greenland Shield. Lithosphere, 2010, 2, 3-12.	0.6	5
198	Provenance bias between detrital zircons from sandstones and river sands: AÂquantification approach using 3-D grain shape, composition and age. Geoscience Frontiers, 2020, 11, 835-842.	4.3	5

#	Article	IF	Citations
199	A novel application of image analysis to interpret trace element distributions in magmatic sulphides. Lithos, 2020, 362-363, 105451.	0.6	5
200	Emergence of continents above seaâ€level influences sediment melt composition. Terra Nova, 2021, 33, 465-474.	0.9	5
201	Metasediment-derived melts in subduction zone magmas and their influence on crustal evolution. Journal of Petrology, 0, , .	1.1	5
202	Multitechnique Geochronology of Intrusive and Explosive Activity on Piton des Neiges Volcano, RÃ©union Island. Geochemistry, Geophysics, Geosystems, 2022, 23, .	1.0	5
203	Tropicana translated: a foreland thrust system imbricate fan setting for c. 2520 Ma orogenic gold mineralization at the northern margin of the Albanyâ€"Fraser Orogen, Western Australia. Geological Society Special Publication, 2018, 453, 225-245.	0.8	4
204	Petrological control on chargeability with implications for induced polarization surveys. Journal of Applied Geophysics, 2021, 188, 104308.	0.9	4
205	The corundum conundrum: Constraining the compositions of fluids involved in ruby formation in metamorphic melanges of ultramafic and aluminous rocks. Chemical Geology, 2021, 571, 120180.	1.4	4
206	Apatite and biotite thermochronometers help explain an Arctic Caledonide inverted metamorphic gradient. Chemical Geology, 2021, 584, 120524.	1.4	4
207	SS14â€28: An Age Reference Material for Zircon Uâ€Th Disequilibrium Dating. Geostandards and Geoanalytical Research, 2022, 46, 57-69.	1.7	4
208	How old are the Jack Hills metasediments really?: The case for contamination of bedrock by zircon grains in transported regolith. Geology, 0, , .	2.0	4
209	Preservation of basement architecture in zircon Hf isotope maps. Terra Nova, 2022, 34, 441-448.	0.9	4
210	Modelling U-Pb discordance in the Acasta Gneiss: Implications for fluidâ€"rock interaction in Earth's oldest dated crust. Gondwana Research, 2020, 77, 223-237.	3.0	3
211	Evidence from the Uâ€"Pbâ€"Hf signatures of detrital zircons for a Baltican provenance for basal Old Red Sandstone successions, northern Scottish Caledonides. Journal of the Geological Society, 2021, 178, .	0.9	3
212	A new approach to SHRIMP II zircon U-Th disequilibrium dating. Computers and Geosciences, 2022, 158, 104947.	2.0	3
213	Model versus measured detrital zircon age signatures of the early Earth. Earth and Planetary Science Letters, 2021, 575, 117182.	1.8	3
214	An apatite to unravel petrogenic processes of the Nova-Bollinger Ni-Cu magmatic sulfide deposit, Western Australia. Precambrian Research, 2022, 369, 106524.	1.2	3
215	Anorthosite formation and emplacement coupled with differential tectonic exhumation of ultrahigh-temperature rocks in a Sveconorwegian continental back-arc setting. Precambrian Research, 2022, 376, 106695.	1.2	3
216	A persistent Hadeanâ€"Eoarchean protocrust in the western Yilgarn Craton, Western Australia. Terra Nova, 2022, 34, 458-464.	0.9	3

#	Article	IF	Citations
217	Uncovering the Leichhardt Superbasin and Kalkadoon-Leichhardt Complex in the southern Mount Isa Terrane, Australia. Precambrian Research, 2022, 375, 106680.	1.2	2
218	Chapter 44 The ChiquerÃo Formation, southern Peru. Geological Society Memoir, 2011, 36, 481-486.	0.9	1
219	Origin of high-Cr stratiform chromitite in the Fangmayu Alaskan-type ultramafic intrusion, North China Craton. Precambrian Research, 2021, 355, 106096.	1.2	1
220	Extreme plastic deformation and subsequent Pb loss in shocked xenotime from the Vredefort Dome, South Africa. , 2021, , .		1
221	Mafic intrusions in southwestern Australia related to supercontinent assembly or breakup?. Australian Journal of Earth Sciences, 0, , 1-23.	0.4	1
222	Considerations for double-dating zircon in secular disequilibrium with protracted crystallisation histories. Chemical Geology, 2021, 581, 120408.	1.4	1
223	Multiple modes of sulphur cycling within a mineralised orogen: A case study from the Fraser Zone, Western Australia. Lithos, 2022, 408-409, 106536.	0.6	1
224	Terminal tectono-magmatic phase of the New England Orogen driven by lithospheric delamination. Gondwana Research, 2022, 106, 105-125.	3.0	1
225	Reply to dunite magma or ultramafic cumulates? A discussion of Griffin et al. â€œIntrusion and contamination of high-temperature dunite magma: the Nordre Bumandsfjord pluton, Seiland, Arctic Norwayâ€• Contributions To Mineralogy and Petrology, 2013, 166, 1543-1544.	1.2	0
226	Stratigraphy, Age and Provenance of Madura Shelf Sediments, WA: Implications for the Evolution of the Bight Basin and Australia's Southern Margin. , 2015, , .		0
227	Magma evolution in the Halls Creek Orogen; insight from geodynamic numerical modelling and geochemical analysis. ASEG Extended Abstracts, 2018, 2018, 1-6.	0.1	0