

# Chris L Kirkland

## List of Publications by Citations

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216  
papers

6,112  
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44  
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235  
ext. papers

7,412  
ext. citations

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L-index

#	Paper	IF	Citations
216	Strategies towards statistically robust interpretations of in situ U <sup>Pb</sup> zircon geochronology. <i>Geoscience Frontiers</i> , <b>2016</b> , 7, 581-589	6	352
215	Zircon Th/U ratios in magmatic environs. <i>Lithos</i> , <b>2015</b> , 212-215, 397-414	2.9	233
214	Earth's first stable continents did not form by subduction. <i>Nature</i> , <b>2017</b> , 543, 239-242	50.4	209
213	Th/U ratios in metamorphic zircon. <i>Journal of Metamorphic Geology</i> , <b>2018</b> , 36, 715-737	4.4	159
212	High-Temperature Granite Magmatism, Crust-Mantle Interaction and the Mesoproterozoic Intracontinental Evolution of the Musgrave Province, Central Australia. <i>Journal of Petrology</i> , <b>2011</b> , 52, 931-958	3.9	126
211	Provenance and Terrane Evolution of the Kalak Nappe Complex, Norwegian Caledonides: Implications for Neoproterozoic Paleogeography and Tectonics. <i>Journal of Geology</i> , <b>2007</b> , 115, 21-41	2	113
210	Detrital zircon fingerprint of the Proto-Andes: Evidence for a Neoproterozoic active margin?. <i>Precambrian Research</i> , <b>2008</b> , 167, 186-200	3.9	102
209	On the edge: U <sup>Pb</sup> , Lu <sup>Hf</sup> , and Sm <sup>Nd</sup> data suggests reworking of the Yilgarn craton margin during formation of the Albany-Fraser Orogen. <i>Precambrian Research</i> , <b>2011</b> , 187, 223-247	3.9	101
208	Accessories after the facts: Constraining the timing, duration and conditions of high-temperature metamorphic processes. <i>Lithos</i> , <b>2016</b> , 264, 239-257	2.9	98
207	Archean komatiite volcanism controlled by the evolution of early continents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10083-8	11.5	96
206	Granitic magmatism of Grenvillian and late Neoproterozoic age in Finnmark, Arctic Norway—constraining pre-Scandian deformation in the Kalak Nappe Complex. <i>Precambrian Research</i> , <b>2006</b> , 145, 24-52	3.9	94
205	Transformation of an Archean craton margin during Proterozoic basin formation and magmatism: The Albany-Fraser Orogen, Western Australia. <i>Precambrian Research</i> , <b>2015</b> , 266, 440-466	3.9	93
204	Strengths and limitations of zircon Lu-Hf and O isotopes in modelling crustal growth. <i>Lithos</i> , <b>2016</b> , 248-251, 175-192	2.9	82
203	Timing of ophiolite obduction in the Grampian orogen. <i>Bulletin of the Geological Society of America</i> , <b>2010</b> , 122, 1787-1799	3.9	80
202	Constraints and deception in the isotopic record; the crustal evolution of the west Musgrave Province, central Australia. <i>Gondwana Research</i> , <b>2013</b> , 23, 759-781	5.1	79
201	Seeing is believing: Visualization of He distribution in zircon and implications for thermal history reconstruction on single crystals. <i>Science Advances</i> , <b>2017</b> , 3, e1601121	14.3	78
200	Fluid-assisted zircon and monazite growth within a shear zone: a case study from Finnmark, Arctic Norway. <i>Contributions To Mineralogy and Petrology</i> , <b>2009</b> , 158, 637-657	3.5	78

199	Long-lived, autochthonous development of the Archean Murchison Domain, and implications for Yilgarn Craton tectonics. <i>Precambrian Research</i> , <b>2013</b> , 229, 49-92	3.9	77
198	The late Mesoproterozoic–Early Neoproterozoic tectonostratigraphic evolution of NW Scotland: the Torridonian revisited. <i>Journal of the Geological Society</i> , <b>2007</b> , 164, 541-551	2.7	76
197	Two collisions, two sutures: Punctuated pre-1950Ma assembly of the West Australian Craton during the Ophthalmian and Glenburgh Orogenies. <i>Precambrian Research</i> , <b>2011</b> , 189, 239-262	3.9	75
196	The burning heart □ The Proterozoic geology and geological evolution of the west Musgrave Region, central Australia. <i>Gondwana Research</i> , <b>2015</b> , 27, 64-94	5.1	69
195	Hf isotopes in detrital and inherited zircons of the Pilbara Craton provide no evidence for Hadean continents. <i>Precambrian Research</i> , <b>2015</b> , 261, 112-126	3.9	68
194	Detrital zircon signature of the Moine Supergroup, Scotland: Contrasts and comparisons with other Neoproterozoic successions within the circum-North Atlantic region. <i>Precambrian Research</i> , <b>2008</b> , 163, 332-350	3.9	65
193	Basement–cover relationships of the Kalak Nappe Complex, Arctic Norwegian Caledonides and constraints on Neoproterozoic terrane assembly in the North Atlantic region. <i>Precambrian Research</i> , <b>2008</b> , 160, 245-276	3.9	64
192	A Palaeoproterozoic tectono-magmatic lull as a potential trigger for the supercontinent cycle. <i>Nature Geoscience</i> , <b>2018</b> , 11, 97-101	18.3	63
191	Apatite: a U-Pb thermochronometer or geochronometer?. <i>Lithos</i> , <b>2018</b> , 318-319, 143-157	2.9	61
190	Proterozoic granulite formation driven by mafic magmatism: An example from the Fraser Range Metamorphics, Western Australia. <i>Precambrian Research</i> , <b>2014</b> , 240, 1-21	3.9	60
189	Secular change in TTG compositions: Implications for the evolution of Archaean geodynamics. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 505, 65-75	5.3	59
188	Age and significance of voluminous mafic–ultramafic magmatic events in the Murchison Domain, Yilgarn Craton. <i>Australian Journal of Earth Sciences</i> , <b>2010</b> , 57, 597-614	1.4	58
187	The tectonic and metallogenic framework of Myanmar: A Tethyan mineral system. <i>Ore Geology Reviews</i> , <b>2016</b> , 79, 26-45	3.2	58
186	Isotopic constraints on stratigraphy in the central and eastern Yilgarn Craton, Western Australia. <i>Australian Journal of Earth Sciences</i> , <b>2012</b> , 59, 657-670	1.4	57
185	Fault rock lithologies and architecture of the central Alpine fault, New Zealand, revealed by DFDP-1 drilling. <i>Lithosphere</i> , <b>2015</b> , 7, 155-173	2.7	56
184	Adding pieces to the puzzle: episodic crustal growth and a new terrane in the northeast Yilgarn Craton, Western Australia. <i>Australian Journal of Earth Sciences</i> , <b>2012</b> , 59, 603-623	1.4	53
183	Neoproterozoic palaeogeography in the North Atlantic Region: Inferences from the Akkajaure and Seve Nappes of the Scandinavian Caledonides. <i>Precambrian Research</i> , <b>2011</b> , 186, 127-146	3.9	53
182	Strategies towards robust interpretations of in situ zircon Lu–Hf isotope analyses. <i>Geoscience Frontiers</i> , <b>2020</b> , 11, 843-853	6	52

181	Processes of crust formation in the early Earth imaged through Hf isotopes from the East Pilbara Terrane. <i>Precambrian Research</i> , <b>2017</b> , 297, 56-76	3.9	50
180	The crustal architecture of Myanmar imaged through zircon U-Pb, Lu-Hf and O isotopes: Tectonic and metallogenic implications. <i>Gondwana Research</i> , <b>2018</b> , 62, 27-60	5.1	48
179	Contrasting Granite Metallogeny through the Zircon Record: A Case Study from Myanmar. <i>Scientific Reports</i> , <b>2017</b> , 7, 748	4.9	48
178	Devil in the detail; The 1150–1000Ma magmatic and structural evolution of the Ngaanyatjarra Rift, west Musgrave Province, Central Australia. <i>Precambrian Research</i> , <b>2010</b> , 183, 572-588	3.9	48
177	Crustal evolution, intra-cratonic architecture and the metallogeny of an Archaean craton. <i>Geological Society Special Publication</i> , <b>2015</b> , 393, 23-80	1.7	47
176	Provenance record from Mesoproterozoic-Cambrian sediments of Peary Land, North Greenland: Implications for the ice-covered Greenland Shield and Laurentian palaeogeography. <i>Precambrian Research</i> , <b>2009</b> , 170, 43-60	3.9	47
175	Zircon Lu/Hf isotopes and granite geochemistry of the Murchison Domain of the Yilgarn Craton: Evidence for reworking of Eoarchean crust during Meso-Neoproterozoic plume-driven magmatism. <i>Lithos</i> , <b>2012</b> , 148, 112-127	2.9	46
174	Orogenic climax of Earth: The 1.2-1.1 Ga Grenvillian superevent. <i>Geology</i> , <b>2013</b> , 41, 735-738	5	45
173	Evolution of a large, long-lived, ultrahigh-temperature Grenvillian belt in central Australia. <i>Gondwana Research</i> , <b>2015</b> , 28, 531-564	5.1	44
172	The Mesoproterozoic thermal evolution of the Musgrave Province in central Australia [Plume vs. the geological record. <i>Gondwana Research</i> , <b>2015</b> , 27, 1419-1429	5.1	44
171	The Juvenile Hafnium Isotope Signal as a Record of Supercontinent Cycles. <i>Scientific Reports</i> , <b>2016</b> , 6, 38503	4.9	43
170	Visualizing the sedimentary response through the orogenic cycle: A multidimensional scaling approach. <i>Lithosphere</i> , <b>2016</b> , 8, 29-37	2.7	42
169	Proterozoic crustal evolution of the Eucla basement, Australia: Implications for destruction of oceanic crust during emergence of Nuna. <i>Lithos</i> , <b>2017</b> , 278-281, 427-444	2.9	41
168	Age and paleomagnetism of the 1210Ma Gnowangerup–Fraser dyke swarm, Western Australia, and implications for late Mesoproterozoic paleogeography. <i>Precambrian Research</i> , <b>2014</b> , 246, 1-15	3.9	40
167	Conditioned duality of the Earth system: Geochemical tracing of the supercontinent cycle through Earth history. <i>Earth-Science Reviews</i> , <b>2016</b> , 160, 171-187	10.2	40
166	Grain size matters: Implications for element and isotopic mobility in titanite. <i>Precambrian Research</i> , <b>2016</b> , 278, 283-302	3.9	39
165	No evidence for high-pressure melting of Earth's crust in the Archean. <i>Nature Communications</i> , <b>2019</b> , 10, 5559	17.4	39
164	Foreign contemporaries – Unravelling disparate isotopic signatures from Mesoproterozoic Central and Western Australia. <i>Precambrian Research</i> , <b>2015</b> , 265, 218-231	3.9	38

163	Linking the Windmill Islands, east Antarctica and the AlbanyFraser Orogen: Insights from U <sup>Bb</sup> zircon geochronology and Hf isotopes. <i>Precambrian Research</i> , <b>2017</b> , 293, 131-149	3.9	37
162	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. <i>Precambrian Research</i> , <b>2017</b> , 300, 107-120	3.9	36
161	Spatio-temporal constraints on lithospheric development in the southwestCentral Yilgarn Craton, Western Australia. <i>Australian Journal of Earth Sciences</i> , <b>2012</b> , 59, 625-656	1.4	36
160	Assessing the mechanisms of common Pb incorporation into titanite. <i>Chemical Geology</i> , <b>2018</b> , 483, 558-566	4.6	35
159	U-Pb and Hf isotopic evidence for Neoproterozoic and Paleoproterozoic basement in the buried northern Gawler Craton, South Australia. <i>Precambrian Research</i> , <b>2014</b> , 250, 127-142	3.9	34
158	The affinity of Archean crust on the YilgarnAlbanyFraser Orogen boundary: Implications for gold mineralisation in the Tropicana Zone. <i>Precambrian Research</i> , <b>2015</b> , 266, 260-281	3.9	34
157	Building Mesoarchean crust upon Eoarchean roots: the Akia Terrane, West Greenland. <i>Contributions To Mineralogy and Petrology</i> , <b>2019</b> , 174, 1	3.5	33
156	Source to sink zircon grain shape: Constraints on selective preservation and significance for Western Australian Proterozoic basin provenance. <i>Geoscience Frontiers</i> , <b>2018</b> , 9, 415-430	6	33
155	Petrogenesis and Ni <sup>2+</sup> sulphide potential of mafic-ultramafic rocks in the Mesoproterozoic Fraser Zone within the AlbanyFraser Orogen, Western Australia. <i>Precambrian Research</i> , <b>2016</b> , 281, 27-46	3.9	32
154	Oxygen isotopes in Pilbara Craton zircons support a global increase in crustal recycling at 3.2 Ga. <i>Lithos</i> , <b>2015</b> , 228-229, 90-98	2.9	32
153	The Finnmarkian Orogeny revisited: An isotopic investigation in eastern Finnmark, Arctic Norway. <i>Tectonophysics</i> , <b>2008</b> , 460, 158-177	3.1	32
152	Shocked monazite chronometry: integrating microstructural and in situ isotopic age data for determining precise impact ages. <i>Contributions To Mineralogy and Petrology</i> , <b>2017</b> , 172, 1	3.5	31
151	Time-space evolution of an Archean craton: A Hf-isotope window into continent formation. <i>Earth-Science Reviews</i> , <b>2019</b> , 196, 102831	10.2	31
150	Time-resolved, defect-hosted, trace element mobility in deformed Witwatersrand pyrite. <i>Geoscience Frontiers</i> , <b>2019</b> , 10, 55-63	6	31
149	Neoproterozoic glaciation in the Proto-Andes: Tectonic implications and global correlation. <i>Geology</i> , <b>2007</b> , 35, 1095	5	31
148	Discriminating prolonged, episodic or disturbed monazite age spectra: An example from the Kalak Nappe Complex, Arctic Norway. <i>Chemical Geology</i> , <b>2016</b> , 424, 96-110	4.2	30
147	Structure and timing of Neoproterozoic gold mineralization in the Southern Cross district (Yilgarn Craton, Western Australia) suggest leading role of late Low-Ca I-type granite intrusions. <i>Journal of Structural Geology</i> , <b>2014</b> , 67, 205-221	3	30
146	Provenance of Neoproterozoic sediments in the SEv nappes (Middle Allochthon) of the Scandinavian Caledonides: LA-ICP-MS and SIMS U <sup>Bb</sup> dating of detrital zircons. <i>Precambrian Research</i> , <b>2011</b> , 187, 181-200	3.9	30

145	Early Silurian magmatism and the Scandian evolution of the Kalak Nappe Complex, Finnmark, Arctic Norway. <i>Journal of the Geological Society</i> , <b>2005</b> , 162, 985-1003	2.7	30
144	Melting controls on the lutetium–hafnium evolution of Archaean crust. <i>Precambrian Research</i> , <b>2018</b> , 305, 479-488	3.9	30
143	Magma-driven, high-grade metamorphism in the Sveconorwegian Province, southwest Norway, during the terminal stages of Fennoscandian Shield evolution <b>2018</b> , 14, 861-882		30
142	The structure and timing of lateral escape during the Scandian Orogeny: A combined strain and geochronological investigation in Finnmark, Arctic Norwegian Caledonides. <i>Tectonophysics</i> , <b>2006</b> , 425, 159-189	3.1	28
141	Nanoscale distribution of Pb in monazite revealed by atom probe microscopy. <i>Chemical Geology</i> , <b>2018</b> , 479, 251-258	4.2	27
140	Implications of erosion and bedrock composition on zircon fertility: Examples from South America and Western Australia. <i>Terra Nova</i> , <b>2018</b> , 30, 289-295	3	27
139	An impact melt origin for Earth's oldest known evolved rocks. <i>Nature Geoscience</i> , <b>2018</b> , 11, 795-799	18.3	27
138	Tectonomagmatic evolution of the Early Ordovician suprasubduction-zone ophiolites of the Trondheim Region, Mid-Norwegian Caledonides. <i>Geological Society Special Publication</i> , <b>2014</b> , 390, 541-561 <sup>17</sup>		27
137	An isotopic perspective on growth and differentiation of Proterozoic orogenic crust: From subduction magmatism to cratonization. <i>Lithos</i> , <b>2017</b> , 268-271, 76-86	2.9	26
136	Evolution of geodynamics since the Archean: Significant change at the dawn of the Phanerozoic. <i>Geology</i> , <b>2020</b> , 48, 488-492	5	25
135	Unravelling complex geologic histories using U–Pb and trace element systematics of titanite. <i>Chemical Geology</i> , <b>2019</b> , 504, 105-122	4.2	25
134	Incremental pluton emplacement during inclined transpression. <i>Tectonophysics</i> , <b>2014</b> , 623, 100-122	3.1	24
133	Not-so-suspect terrane: Constraints on the crustal evolution of the Rudall Province. <i>Precambrian Research</i> , <b>2013</b> , 235, 131-149	3.9	24
132	Precise radiometric age establishes Yarrabubba, Western Australia, as Earth's oldest recognised meteorite impact structure. <i>Nature Communications</i> , <b>2020</b> , 11, 300	17.4	23
131	Breaking the Grenville–Sveconorwegian link in Rodinia reconstructions. <i>Terra Nova</i> , <b>2019</b> , 31, 430-437	3	22
130	Carbonate isotope chemostratigraphy suggests revisions to the geological history of the West Finnmark Caledonides, northern Norway. <i>Journal of the Geological Society</i> , <b>2006</b> , 163, 277-289	2.7	22
129	Mesoarchean exhumation of the Akia terrane and a common Neoproterozoic tectonothermal history for West Greenland. <i>Precambrian Research</i> , <b>2018</b> , 314, 129-144	3.9	22
128	Variations in Zircon Provenance Constrain Age and Geometry of an Early Paleozoic Rift in the Pinjarra Orogen, East Gondwana. <i>Tectonics</i> , <b>2017</b> , 36, 2477-2496	4.3	21

127	Paleoproterozoic increase in zircon $\delta^{18}O$ driven by rapid emergence of continental crust. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 257, 16-25	5.5	21
126	UPb detrital zircon geochronology of the Dalradian Supergroup, Shetland Islands, Scotland: implications for regional correlations and Neoproterozoic-Palaeozoic basin development. <i>Journal of the Geological Society</i> , <b>2013</b> , 170, 905-916	2.7	21
125	Tracking sediment dispersal during orogenesis: A zircon age and Hf isotope study from the western Amadeus Basin, Australia. <i>Gondwana Research</i> , <b>2016</b> , 37, 324-347	5.1	21
124	Crustal reworking and orogenic styles inferred from zircon Hf isotopes: Proterozoic examples from the North Atlantic region. <i>Geoscience Frontiers</i> , <b>2019</b> , 10, 417-424	6	21
123	Trace elements in titanite: A potential tool to constrain polygenetic growth processes and timing. <i>Chemical Geology</i> , <b>2019</b> , 509, 1-19	4.2	21
122	Buried but preserved: The Proterozoic Arubiddy Ophiolite, Madura Province, Western Australia. <i>Precambrian Research</i> , <b>2018</b> , 317, 137-158	3.9	21
121	Early Cambrian metamorphic zircon in the northern Pinjarra Orogen: Implications for the structure of the West Australian Craton margin. <i>Lithosphere</i> , <b>2017</b> , 9, 3-13	2.7	20
120	Tectonic evolution of the Arctic Norwegian Caledonides from a texturally- and structurally-constrained multi-isotopic (Ar-Ar, Rb-Sr, Sm-Nd, U-Pb) study. <i>Numerische Mathematik</i> , <b>2007</b> , 307, 459-526	5.3	20
119	Radiogenic heating and craton-margin plate stresses as drivers for intraplate orogeny. <i>Journal of Metamorphic Geology</i> , <b>2017</b> , 35, 631-661	4.4	19
118	Oxygen isotopes trace the origins of Earth's earliest continental crust. <i>Nature</i> , <b>2021</b> , 592, 70-75	50.4	19
117	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. <i>Journal of Petrology</i> , <b>2015</b> , 56, 493-525	3.9	18
116	Mesoarchean partial melting of mafic crust and tonalite production during high-T <sub>low</sub> -P stagnant tectonism, Akia Terrane, West Greenland. <i>Precambrian Research</i> , <b>2020</b> , 339, 105615	3.9	18
115	The Archean Fortescue large igneous province: A result of komatiite contamination by a distinct Eo-Paleoarchean crust. <i>Precambrian Research</i> , <b>2018</b> , 310, 365-390	3.9	18
114	Timing of collision initiation and location of the Scandian orogenic suture in the Scandinavian Caledonides. <i>Terra Nova</i> , <b>2018</b> , 30, 179-188	3	18
113	A Laurentian provenance for the Dalradian rocks of north Mayo, Ireland, and evidence for an original basement-cover contact with the underlying Annagh Gneiss Complex. <i>Journal of the Geological Society</i> , <b>2010</b> , 167, 1033-1048	2.7	17
112	A new ~3.46 Ga asteroid impact ejecta unit at Marble Bar, Pilbara Craton, Western Australia: A petrological, microprobe and laser ablation ICPMS study. <i>Precambrian Research</i> , <b>2016</b> , 279, 103-122	3.9	17
111	A gradual transition to plate tectonics on Earth between 3.2 to 2.7 billion years ago. <i>Terra Nova</i> , <b>2019</b> , 31, 129-134	3	16
110	The use of detrital zircon data in terrane analysis: A nonunique answer to provenance and tectonostratigraphic position in the Scandinavian Caledonides. <i>Lithosphere</i> , <b>2017</b> , 9, 1002-1011	2.7	16

109	Heterogeneously hydrated mantle beneath the late Archean Yilgarn Craton. <i>Lithos</i> , <b>2015</b> , 238, 76-85	2.9	16
108	Titanite petrochronology linked to phase equilibrium modelling constrains tectono-thermal events in the Akia Terrane, West Greenland. <i>Chemical Geology</i> , <b>2020</b> , 536, 119467	4.2	16
107	Sediment routing and basin evolution in Proterozoic to Mesozoic east Gondwana: A case study from southern Australia. <i>Gondwana Research</i> , <b>2018</b> , 58, 122-140	5.1	15
106	The complexity of sediment recycling as revealed by common Pb isotopes in K-feldspar. <i>Geoscience Frontiers</i> , <b>2018</b> , 9, 1515-1527	6	15
105	Melting of a subduction-modified mantle source: A case study from the Archean Marda Volcanic Complex, central Yilgarn Craton, Western Australia. <i>Lithos</i> , <b>2014</b> , 190-191, 403-419	2.9	15
104	A window into an ancient backarc? The magmatic and metamorphic history of the Fraser Zone, Western Australia. <i>Precambrian Research</i> , <b>2019</b> , 323, 55-69	3.9	15
103	Orogenic paleofluid flow recorded by discordant detrital zircons in the Caledonian foreland basin of northern Greenland. <i>Lithosphere</i> , <b>2015</b> , 7, 138-143	2.7	14
102	3-D Characterization of Detrital Zircon Grains and its Implications for Fluvial Transport, Mixing, and Preservation Bias. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 4655-4673	3.6	14
101	The answers are blowing in the wind: Ultra-distal ashfall zircons, indicators of Cretaceous super-eruptions in eastern Gondwana. <i>Geology</i> , <b>2016</b> , 44, 643-646	5	14
100	North Atlantic Craton architecture revealed by kimberlite-hosted crustal zircons. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 534, 116091	5.3	13
99	When will it end? Long-lived intracontinental reactivation in central Australia. <i>Geoscience Frontiers</i> , <b>2019</b> , 10, 149-164	6	13
98	Titanite dates crystallization: Slow Pb diffusion during super-solidus re-equilibration. <i>Journal of Metamorphic Geology</i> , <b>2019</b> , 37, 823-838	4.4	12
97	Analysis of the Ragged Basin, Western Australia: Insights into syn-orogenic basin evolution within the Albany-Fraser Orogen. <i>Precambrian Research</i> , <b>2015</b> , 261, 166-187	3.9	12
96	Syn-volcanic cannibalisation of juvenile felsic crust: Superimposed giant $^{18}\text{O}$ -depleted rhyolite systems in the hot and thinned crust of Mesoproterozoic central Australia. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 424, 15-25	5.3	12
95	Zircon geochronology reveals polyphase magmatism and crustal anatexis in the Buchan Block, NE Scotland: Implications for the Grampian Orogeny. <i>Geoscience Frontiers</i> , <b>2017</b> , 8, 1469-1478	6	11
94	>2.7 Ga metamorphic peridotites from southeast Greenland record the oxygen isotope composition of Archean seawater. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 544, 116331	5.3	11
93	Low $^{18}\text{O}$ zircon grains in the Neoproterozoic Rum Jungle Complex, northern Australia: An indicator of emergent continental crust. <i>Lithosphere</i> , <b>2014</b> , 6, 17-25	2.7	11
92	Intrusion and contamination of high-temperature dunitic magma: the Nordre Bumandsfjord pluton, Seiland, Arctic Norway. <i>Contributions To Mineralogy and Petrology</i> , <b>2013</b> , 165, 903-930	3.5	11

91	Differentiating between Inherited and Autocrystic Zircon in Granitoids. <i>Journal of Petrology</i> , <b>2020</b> , 61,	3.9	11
90	Zircon U/Pb, Lu/Hf and O isotopes from the 3414 Ma Strelley Pool Formation, East Pilbara Terrane, and the Palaeoarchaeon emergence of a cryptic cratonic core. <i>Precambrian Research</i> , <b>2019</b> , 321, 64-84	3.9	11
89	Piggy-back Supervolcanoes—Long-Lived, Voluminous, Juvenile Rhyolite Volcanism in Mesoproterozoic Central Australia. <i>Journal of Petrology</i> , <b>2015</b> , 56, 735-763	3.9	10
88	Shocked titanite records Chicxulub hydrothermal alteration and impact age. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 281, 12-30	5.5	10
87	Zircon grain shape holds provenance information: A case study from southwestern Australia. <i>Geological Journal</i> , <b>2019</b> , 54, 1279-1293	1.7	10
86	The brittle evolution of a major strike-slip fault associated with granite emplacement: a case study of the Leannan Fault, NW Ireland. <i>Journal of the Geological Society</i> , <b>2008</b> , 165, 341-352	2.7	10
85	Nanoscale Isotopic Dating of Monazite. <i>Geostandards and Geoanalytical Research</i> , <b>2020</b> , 44, 637-652	3.6	10
84	The Sveconorwegian orogeny—Reamalgamation of the fragmented southwestern margin of Fennoscandia. <i>Precambrian Research</i> , <b>2020</b> , 350, 105877	3.9	10
83	Mechanical twinning of monazite expels radiogenic lead. <i>Geology</i> , <b>2021</b> , 49, 417-421	5	10
82	Widespread reworking of Hadean-to-Eoarchean continents during Earth's thermal peak. <i>Nature Communications</i> , <b>2021</b> , 12, 331	17.4	10
81	Isotopic insight into the Proterozoic crustal evolution of the Rudall Province, Western Australia. <i>Precambrian Research</i> , <b>2018</b> , 313, 31-50	3.9	10
80	Zircon fingerprint of the Neoproterozoic North Atlantic: Perspectives from East Greenland. <i>Precambrian Research</i> , <b>2020</b> , 342, 105653	3.9	9
79	The source of Dalradian detritus in the Buchan Block, NE Scotland: application of new tools to detrital datasets. <i>Journal of the Geological Society</i> , <b>2016</b> , 173, 773-782	2.7	9
78	Reduce or recycle? Revealing source to sink links through integrated zirconfeldspar provenance fingerprinting. <i>Sedimentology</i> , <b>2021</b> , 68, 531-556	3.3	9
77	Spot the difference: Zircon disparity tracks crustal evolution. <i>Geology</i> , <b>2019</b> , 47, 435-439	5	8
76	Hf isotopic fingerprinting of geodynamic settings: Integrating isotopes and numerical models. <i>Gondwana Research</i> , <b>2019</b> , 73, 190-199	5.1	8
75	Late Neoproterozoic—Silurian tectonic evolution of the Røtingsfjell Nappe Complex, orogen-scale correlations and implications for the Scandian suture. <i>Geological Society Special Publication</i> , <b>2020</b> , SP503-2020-10	1.7	8
74	Cooling and exhumation along the curved Albany-Fraser orogen, Western Australia. <i>Lithosphere</i> , <b>2016</b> , 8, 551-563	2.7	8

73	Modelling the Hafnium-Neodymium Evolution of Early Earth: A Study from West Greenland. <i>Journal of Petrology</i> , <b>2019</b> , 60, 177-197	3.9	8
72	Zircon as a metamorphic timekeeper: A case study from the Caledonides of central Norway. <i>Gondwana Research</i> , <b>2018</b> , 61, 63-72	5.1	8
71	Resampling (detrital) zircon age distributions for accurate multidimensional scaling solutions. <i>Earth-Science Reviews</i> , <b>2020</b> , 204, 103149	10.2	7
70	Grampian migmatites in the Buchan Block, NE Scotland. <i>Journal of Metamorphic Geology</i> , <b>2015</b> , 33, 695-709	4.4	7
69	Geodynamic Implications of Synchronous Norite and TTG Formation in the 3'Ga Maniitsoq Norite Belt, West Greenland. <i>Frontiers in Earth Science</i> , <b>2020</b> , 8,	3.5	7
68	Geochronological constraints on nickel metallogeny in the Lake Johnston belt, Southern Cross Domain. <i>Australian Journal of Earth Sciences</i> , <b>2014</b> , 61, 143-157	1.4	6
67	Constraints on the timing of Scandian deformation and the nature of a buried Grampian terrane under the Caledonides of northwestern Ireland. <i>Journal of the Geological Society</i> , <b>2013</b> , 170, 615-625	2.7	6
66	Cryptic Disc Structures Resembling Ediacaran Discoidal Fossils from the Lower Silurian Hellefjord Schist, Arctic Norway. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164071	3.7	6
65	U-Th-Pb zircon geochronology on igneous rocks in the Toija and Salittu Formations, Oriijävi area, southwestern Finland: Constraints on the age of volcanism and metamorphism. <i>Bulletin of the Geological Society of Finland</i> , <b>2008</b> , 80, 73-87	1.3	6
64	Resolving multiple geological events using in situ Rb-Br geochronology: implications for metallogenesis at Tropicana, Western Australia. <i>Geochronology</i> , <b>2020</b> , 2, 283-303	3.8	6
63	Apatite U-Pb dating and geochemistry of the Kyrgyz South Tian Shan (Central Asia): Establishing an apatite fingerprint for provenance studies. <i>Geoscience Frontiers</i> , <b>2020</b> , 11, 2003-2015	6	6
62	Every zircon deserves a date: selection bias in detrital geochronology. <i>Geological Magazine</i> , <b>2021</b> , 158, 1135-1142	2	6
61	Deformation-enhanced recrystallization of titanite drives decoupling between U-Pb and trace elements. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 560, 116810	5.3	6
60	Detrital shocked zircon provides first radiometric age constraint (. <i>Bulletin of the Geological Society of America</i> , <b>2019</b> , 131, 845-863	3.9	6
59	Theoretical versus empirical secular change in zircon composition. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 554, 116660	5.3	6
58	An Australian source for Pacific-Gondwanan zircons: Implications for the assembly of northeastern Gondwana. <i>Geology</i> , <b>2017</b> , G39152.1	5	5
57	Mapping temporal and spatial patterns of zircon U-Pb disturbance: A Yilgarn Craton case study. <i>Gondwana Research</i> , <b>2017</b> , 52, 39-47	5.1	5
56	Zircon oxygen and hafnium isotope decoupling during regional metamorphism: implications for the generation of low $\delta^{18}O$ magmas. <i>Contributions To Mineralogy and Petrology</i> , <b>2020</b> , 175, 1	3.5	5

55	A Baltic heritage in Scotland: Basement terrane transfer during the Grenvillian orogeny. <i>Geology</i> , <b>2020</b> , 48, 1094-1098	5	5
54	Stirred not shaken; critical evaluation of a proposed Archean meteorite impact in West Greenland. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 557, 116730	5.3	5
53	Strontium isotope analysis of apatite via SIMS. <i>Chemical Geology</i> , <b>2021</b> , 559, 119979	4.2	5
52	The Mesoarchaeon Akia terrane, West Greenland, revisited: New insights based on spatial integration of geophysics, field observation, geochemistry and geochronology. <i>Precambrian Research</i> , <b>2021</b> , 352, 105958	3.9	5
51	Metasomatic Reactions between Archean Dunite and Trondhjemite at the Seqi Olivine Mine in Greenland. <i>Minerals (Basel, Switzerland)</i> , <b>2020</b> , 10, 85	2.4	4
50	A geochronological review of magmatism along the external margin of Columbia and in the Grenville-age orogens forming the core of Rodinia. <i>Precambrian Research</i> , <b>2022</b> , 106463	3.9	4
49	Find a match with triple-dating: Antarctic sub-ice zircon detritus on the modern shore of Western Australia. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 531, 115953	5.3	4
48	Evaluating zircon initial Hf isotopic composition using a combined SIMS/MC-LASS-ICP-MS approach: A case study from the Coompana Province in South Australia. <i>Chemical Geology</i> , <b>2020</b> , 558, 119870	4.2	4
47	Using apatite to resolve the age and protoliths of mid-crustal shear zones: A case study from the Taxaquara Shear Zone, SE Brazil. <i>Lithos</i> , <b>2020</b> , 378-379, 105817	2.9	4
46	Multi-isotope tracing of the 1.30.9 Ga evolution of Fennoscandia; crustal growth during the Sveconorwegian orogeny. <i>Gondwana Research</i> , <b>2021</b> , 91, 31-39	5.1	4
45	Mineralization proximal to the final Nuna suture in northeastern Australia. <i>Gondwana Research</i> , <b>2021</b> , 92, 54-71	5.1	4
44	Geochronological constraints on the timing of magmatism, deformation and mineralization at the Karouni orogenic gold deposit: Guyana, South America. <i>Precambrian Research</i> , <b>2020</b> , 337, 105329	3.9	4
43	Multi-mineral geochronology: insights into crustal behaviour during exhumation of an orogenic root. <i>Contributions To Mineralogy and Petrology</i> , <b>2017</b> , 172, 1	3.5	3
42	A novel application of image analysis to interpret trace element distributions in magmatic sulphides. <i>Lithos</i> , <b>2020</b> , 362-363, 105451	2.9	3
41	Dating young zircon: A case study from Southeast Asian megacrysts. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 274, 1-19	5.5	3
40	Tropicana translated: a foreland thrust system imbricate fan setting for c. 2520 Ma orogenic gold mineralization at the northern margin of the Albany-Fraser Orogen, Western Australia. <i>Geological Society Special Publication</i> , <b>2018</b> , 453, 225-245	1.7	3
39	Oxygen isotopes in detrital zircons: Insight into crustal recycling during the evolution of the Greenland Shield. <i>Lithosphere</i> , <b>2010</b> , 2, 3-12	2.7	3
38	Extracting meaningful U-Pb ages from core-mixtures. <i>Gondwana Research</i> , <b>2021</b> , 92, 102-112	5.1	3

37	Nd and Hf isoscapes of the Yilgarn Craton, Western Australia and implications for its mineral systems. <i>Gondwana Research</i> , <b>2021</b> , 92, 253-265	5.1	3
36	Emergence of continents above sea-level influences sediment melt composition. <i>Terra Nova</i> , <b>2021</b> , 33, 465-474	3	3
35	The corundum conundrum: Constraining the compositions of fluids involved in ruby formation in metamorphic melanges of ultramafic and aluminous rocks. <i>Chemical Geology</i> , <b>2021</b> , 571, 120180	4.2	3
34	Effect of water on $\delta^{18}O$ in zircon. <i>Chemical Geology</i> , <b>2021</b> , 574, 120243	4.2	3
33	Assessing volcanic origins within detrital zircon populations – A case study from the Mesozoic non-volcanic margin of southern Australia. <i>Geoscience Frontiers</i> , <b>2019</b> , 10, 1371-1381	6	3
32	Zircon double-dating of Quaternary eruptions on Jeju Island, South Korea. <i>Journal of Volcanology and Geothermal Research</i> , <b>2021</b> , 410, 107171	2.8	3
31	Tracking mineralisation with in situ multiple sulphur isotopes: a case study from the Fraser Zone, Western Australia. <i>Precambrian Research</i> , <b>2019</b> , 332, 105379	3.9	2
30	Apatite and monazite: An effective duo to unravel superimposed fluid-flow and deformation events in reactivated shear zones. <i>Lithos</i> , <b>2020</b> , 376-377, 105752	2.9	2
29	Provenance bias between detrital zircons from sandstones and river sands: A quantification approach using 3-D grain shape, composition and age. <i>Geoscience Frontiers</i> , <b>2020</b> , 11, 835-842	6	2
28	Changing of the guards: Detrital zircon provenance tracking sedimentological reorganization of a post-Gondwanan rift margin. <i>Basin Research</i> , <b>2020</b> , 32, 854-874	3.2	2
27	Modelling U-Pb discordance in the Acasta Gneiss: Implications for fluid-rock interaction in Earth's oldest dated crust. <i>Gondwana Research</i> , <b>2020</b> , 77, 223-237	5.1	2
26	Resolving the age of the Haughton impact structure using coupled $^{40}Ar/^{39}Ar$ and U-Pb geochronology. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 304, 68-82	5.5	2
25	Coupling sulfur and oxygen isotope ratios in sediment melts across the Archean-Proterozoic transition. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 307, 242-257	5.5	2
24	Origin of high-Cr stratiform chromitite in the Fangmayu Alaskan-type ultramafic intrusion, North China Craton. <i>Precambrian Research</i> , <b>2021</b> , 355, 106096	3.9	1
23	Petrological control on chargeability with implications for induced polarization surveys. <i>Journal of Applied Geophysics</i> , <b>2021</b> , 188, 104308	1.7	1
22	Regional zircon U-Pb geochronology for the Maniitsoq region, southwest Greenland. <i>Scientific Data</i> , <b>2021</b> , 8, 139	8.2	1
21	Thin-section detrital zircon geochronology mitigates bias in provenance investigations. <i>Journal of the Geological Society</i> , jgs2021-070	2.7	1
20	Isotopic modelling of Archean crustal evolution from comagmatic zircon-apatite pairs. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 575, 117194	5.3	1

19	Pb isotope insight into the formation of the Earth's first stable continents. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 578, 117319	5.3	o
18	AnalyZr: A Python application for zircon grain image segmentation and shape analysis. <i>Computers and Geosciences</i> , <b>2022</b> , 105057	4.5	o
17	Multiple modes of sulphur cycling within a mineralised orogen: A case study from the Fraser Zone, Western Australia. <i>Lithos</i> , <b>2022</b> , 408-409, 106536	2.9	o
16	An apatite to unravel petrogenic processes of the Nova-Bollinger Ni-Cu magmatic sulfide deposit, Western Australia. <i>Precambrian Research</i> , <b>2022</b> , 369, 106524	3.9	o
15	Gaining from loss: Detrital zircon source-normalized $\epsilon_{\text{Hf}}$ discriminates first- versus multi-cycle grain histories. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 579, 117346	5.3	o
14	Evidence from the U-Pb-Hf signatures of detrital zircons for a Baltican provenance for basal Old Red Sandstone successions, northern Scottish Caledonides. <i>Journal of the Geological Society</i> , <b>2021</b> , 178, jgs2020-241	2.7	o
13	A new approach to SHRIMP II zircon U-Th disequilibrium dating. <i>Computers and Geosciences</i> , <b>2021</b> , 104947.5	4.5	o
12	Considerations for double-dating zircon in secular disequilibrium with protracted crystallisation histories. <i>Chemical Geology</i> , <b>2021</b> , 581, 120408	4.2	o
11	Corundum (ruby) growth during the final assembly of the Archean North Atlantic Craton, southern West Greenland. <i>Ore Geology Reviews</i> , <b>2021</b> , 138, 104417	3.2	o
10	Apatite and biotite thermochronometers help explain an Arctic Caledonide inverted metamorphic gradient. <i>Chemical Geology</i> , <b>2021</b> , 584, 120524	4.2	o
9	Model versus measured detrital zircon age signatures of the early Earth. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 575, 117182	5.3	o
8	Understanding ancient tectonic settings through detrital zircon analysis. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 583, 117425	5.3	o
7	Anorthosite formation and emplacement coupled with differential tectonic exhumation of ultrahigh-temperature rocks in a Sveconorwegian continental back-arc setting. <i>Precambrian Research</i> , <b>2022</b> , 376, 106695	3.9	o
6	Uncovering the Leichhardt Superbasin and Kalkadoon-Leichhardt Complex in the southern Mount Isa Terrane, Australia. <i>Precambrian Research</i> , <b>2022</b> , 375, 106680	3.9	o
5	Reply to dunite magma or ultramafic cumulates? A discussion of Griffin et al. Intrusion and contamination of high-temperature dunite magma: the Nordre Bumandsfjord pluton, Seiland, Arctic Norway. <i>Contributions To Mineralogy and Petrology</i> , <b>2013</b> , 166, 1543-1544	3.5	
4	Chapter 44 The Chiquerb Formation, southern Peru. <i>Geological Society Memoir</i> , <b>2011</b> , 36, 481-486	0.4	
3	Terminal tectono-magmatic phase of the New England Orogen driven by lithospheric delamination. <i>Gondwana Research</i> , <b>2022</b> , 106, 105-125	5.1	
2	Magma evolution in the Halls Creek Orogen; insight from geodynamic numerical modelling and geochemical analysis. <i>ASEG Extended Abstracts</i> , <b>2018</b> , 2018, 1-6	0.2	

- 1 Mafic intrusions in southwestern Australia related to supercontinent assembly or breakup?  
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