

Archean Subduction: Fact or Fiction?

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Short-term episodicity of Archaean plate tectonics. <i>Geology</i> , 2012, 40, 451-454.	2.0	171
3	Forty years of TTG research. <i>Lithos</i> , 2012, 148, 312-336.	0.6	697
4	The end of continental growth by TTG magmatism. <i>Terra Nova</i> , 2013, 25, 130-136.	0.9	21
5	Refinement of the supercontinent cycle with Hf, Nd and Sr isotopes. <i>Geoscience Frontiers</i> , 2013, 4, 667-680.	4.3	75
6	The boring billion? â€“ Lid tectonics, continental growth and environmental change associated with the Columbia supercontinent. <i>Geoscience Frontiers</i> , 2013, 4, 681-691.	4.3	160
7	Deep earth recycling in the Hadean and constraints on surface tectonics. <i>Numerische Mathematik</i> , 2013, 313, 912-932.	0.7	30
8	Controls of P-T path and element mobility on the formation of corundum pseudomorphs in Paleoproterozoic high-pressure anorthosite from Sittampundi, Tamil Nadu, India. <i>American Mineralogist</i> , 2013, 98, 1725-1737.	0.9	28
9	Heat-pipe Earth. <i>Nature</i> , 2013, 501, 501-505.	13.7	275
10	A resolution of the Archaean paradox. <i>Nature</i> , 2013, 501, 496-497.	13.7	3
11	Continental growth and the crustal record. <i>Tectonophysics</i> , 2013, 609, 651-660.	0.9	135
12	Element recycling from subducting slabs to arc crust: A review. <i>Lithos</i> , 2013, 170-171, 208-223.	0.6	442
13	Constraints from experimental melting of amphibolite on the depth of formation of garnet-rich restites, and implications for models of Early Archean crustal growth. <i>Precambrian Research</i> , 2013, 231, 206-217.	1.2	84
14	Terrestrial aftermath of the Moon-forming impact. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130172.	1.6	40
15	A synthesis of geochemistry and Smâ€“Nd isotopes of Archean granitoid gneisses in the Jiaodong Terrane: Constraints on petrogenesis and tectonic evolution of the Eastern Block, North China Craton. <i>Precambrian Research</i> , 2014, 255, 885-899.	1.2	28
16	Precambrian geodynamics: Concepts and models. <i>Gondwana Research</i> , 2014, 25, 442-463.	3.0	262
17	Neoarchean metagabbro and charnockite in the Yinshan block, western North China Craton: Petrogenesis and tectonic implications. <i>Precambrian Research</i> , 2014, 255, 563-582.	1.2	47
18	Luâ€“Hf isotope systematics of the Hadeanâ€“Eoarchean Acasta Gneiss Complex (Northwest Territories,) Tj ETQq0,0,0 rgBT /Overlock 1	1.6	41
19	Delamination and recycling of Archaean crust caused by gravitational instabilities. <i>Nature Geoscience</i> , 2014, 7, 47-52.	5.4	358

#	ARTICLE	IF	CITATIONS
20	Plate tectonics, damage and inheritance. <i>Nature</i> , 2014, 508, 513-516.	13.7	250
21	The world turns over: Hadean–Archean crust–mantle evolution. <i>Lithos</i> , 2014, 189, 2-15.	0.6	173
22	Four billion years of ophiolites reveal secular trends in oceanic crust formation. <i>Geoscience Frontiers</i> , 2014, 5, 571-603.	4.3	161
23	The oldest zircons of Africa—Their U–Pb–Hf–O isotope and trace element systematics, and implications for Hadean to Archean crust–mantle evolution. <i>Precambrian Research</i> , 2014, 241, 203-230.	1.2	83
24	How feasible was subduction in the Archean?. <i>Canadian Journal of Earth Sciences</i> , 2014, 51, 286-296.	0.6	27
25	Felsic magmatism and uranium deposits. <i>Bulletin - Societe Geologique De France</i> , 2014, 185, 75-92.	0.9	107
26	Spreading continents kick-started plate tectonics. <i>Nature</i> , 2014, 513, 405-408.	13.7	116
27	The contribution of metamorphic petrology to understanding lithosphere evolution and geodynamics. <i>Geoscience Frontiers</i> , 2014, 5, 553-569.	4.3	220
28	Thermo-mechanical modeling of lower crust exhumation—Constraints from the metamorphic record of the Palaeoproterozoic Eburnean orogeny, West African Craton. <i>Precambrian Research</i> , 2014, 243, 88-109.	1.2	39
29	A juvenile oceanic island arc origin for the Archean (ca. 2.97 Ga) Fiskefjället anorthosite complex, southwestern Greenland: Evidence from oxygen isotopes. <i>Earth and Planetary Science Letters</i> , 2014, 396, 252-266.	1.8	23
30	Archaean to Palaeoproterozoic high-grade evolution of the Belomorian eclogite province in the Gridino area, Fennoscandian Shield: Geochronological evidence. <i>Gondwana Research</i> , 2014, 25, 585-613.	3.0	44
31	Influence of combined primordial layering and recycled MORB on the coupled thermal evolution of Earth's mantle and core. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 619-633.	1.0	59
32	Initiation of plate tectonics from post-magma ocean thermochemical convection. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8538-8561.	1.4	69
33	Influence of plate tectonic mode on the coupled thermochemical evolution of Earth's mantle and core. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3400-3413.	1.0	30
34	Evolution of the Earth: Plate Tectonics Through Time. , 2015, , 145-172.		7
35	Intermediate P/T-type regional metamorphism of the Isua Supracrustal Belt, southern west Greenland: The oldest Pacific-type orogenic belt?. <i>Tectonophysics</i> , 2015, 662, 22-39.	0.9	19
36	The evolving nature of terrestrial crust from the Hadean, through the Archaean, into the Proterozoic. <i>Precambrian Research</i> , 2015, 258, 48-82.	1.2	198
37	The Generation of Plate Tectonics from Mantle Dynamics. , 2015, , 271-318.		64

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38	Dynamics of Subducting Slabs: Numerical Modeling and Constraints from Seismology, Geoid, Topography, Geochemistry, and Petrology. , 2015, , 339-391.		10
39	Can Fractional Crystallization, Mixing and Assimilation Processes be Responsible for Jamaican-type Adakites? Implications for Generating Eoarchean Continental Crust. Journal of Petrology, 2015, 56, 1251-1284.	1.1	39
40	Evolution of a ~ 4.7 Ga large igneous province: A volcanological, geochemical and geochronological study of the Agnew Greenstone Belt, and new regional correlations for the Kalgoorlie Terrane (Yilgarn Craton, Western Australia). Precambrian Research, 2015, 270, 334-368.	1.2	48
41	Paleo- to Mesoarchean polymetamorphism in the Barberton Granite-Greenstone Belt, South Africa: Constraints from U-Pb monazite and Lu-Hf garnet geochronology on the tectonic processes that shaped the belt: Discussion. Bulletin of the Geological Society of America, 2015, 127, 1550-1557.	1.6	23
42	Reply to "Paleo- to Mesoarchean polymetamorphism in the Barberton granite-greenstone belt, South Africa: Constraints from U-Pb monazite and Lu-Hf garnet geochronology on the tectonic processes that shaped the belt: Discussion" by M. Brown. Bulletin of the Geological Society of America, 2015, 127, 1558-1563.	1.6	12
44	TTG and Potassic Granitoids in the Eastern North China Craton: Making Neoproterozoic Upper Continental Crust during Micro-continental Collision and Post-collisional Extension. Journal of Petrology, 2016, 57, 1775-1810.	1.1	40
45	Formation of diamondiferous kyanite-bearing eclogite in a subduction mélange. Geochimica Et Cosmochimica Acta, 2016, 179, 156-176.	1.6	29
46	Global trends in the evolution of metallogenic processes as a reflection of supercontinent cyclicality. Geology of Ore Deposits, 2016, 58, 263-283.	0.2	15
47	Subduction initiation from a stagnant lid and global overturn: new insights from numerical models with a free surface. Progress in Earth and Planetary Science, 2016, 3, .	1.1	40
48	An atmospheric source of S in Mesoarchean structurally-controlled gold mineralisation of the Barberton Greenstone Belt. Precambrian Research, 2016, 285, 10-20.	1.2	38
49	Subduction or sagduction? Ambiguity in constraining the origin of ultramafic-mafic bodies in the Archean crust of NW Scotland. Precambrian Research, 2016, 283, 89-105.	1.2	42
50	Identifying mantle lithosphere inheritance in controlling intraplate orogenesis. Journal of Geophysical Research: Solid Earth, 2016, 121, 6966-6987.	1.4	18
51	Provenance of >2.8 Ga Keonjhar Quartzite, Singhbhum Craton, Eastern India: Implications for the Nature of Mesoarchean Upper Crust and Geodynamics. Journal of Geology, 2016, 124, 331-351.	0.7	28
52	Influence of continental growth on mid-ocean ridge depth. Geochemistry, Geophysics, Geosystems, 2016, 17, 4425-4437.	1.0	5
53	Partial melting of metabasic rocks and the generation of tonalitic-trondhjemitic-granodioritic (TTG) crust in the Archean: Constraints from phase equilibrium modelling. Precambrian Research, 2016, 287, 73-90.	1.2	141
54	Mantle Geochemistry. Encyclopedia of Earth Sciences Series, 2016, , 1-12.	0.1	0
55	Earth's oldest mantle fabrics indicate Eoarchean subduction. Nature Communications, 2016, 7, 10665.	5.8	39
56	Variations in timing of lithospheric failure on terrestrial planets due to chaotic nature of mantle convection. Geochemistry, Geophysics, Geosystems, 2016, 17, 1569-1585.	1.0	5

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57	Relamination of mafic subducting crust throughout Earth's history. <i>Earth and Planetary Science Letters</i> , 2016, 449, 206-216.	1.8	27
58	Regimes of subduction and lithospheric dynamics in the Precambrian: 3D thermomechanical modelling. <i>Gondwana Research</i> , 2016, 37, 53-70.	3.0	88
59	A primitive mantle source for the Neoproterozoic mafic rocks from the Tanzania Craton. <i>Geoscience Frontiers</i> , 2016, 7, 911-926.	4.3	31
60	A great thermal divergence in the mantle beginning 2.5 Ga: Geochemical constraints from greenstone basalts and komatiites. <i>Geoscience Frontiers</i> , 2016, 7, 543-553.	4.3	137
61	Early Earth plume-lid tectonics: A high-resolution 3D numerical modelling approach. <i>Journal of Geodynamics</i> , 2016, 100, 198-214.	0.7	128
62	Numerical modeling of deep oceanic slab dehydration: Implications for the possible origin of far field intra-continental volcanoes in northeastern China. <i>Journal of Asian Earth Sciences</i> , 2016, 117, 328-336.	1.0	19
63	Crustal and Mantle Evolution. , 2016, , 147-199.		4
65	Detrital zircon U-Pb, Lu-Hf, and O isotopes of the Wufoshan Group: Implications for episodic crustal growth and reworking of the southern North China craton. <i>Precambrian Research</i> , 2016, 273, 112-128.	1.2	31
66	Tectono-metallogenic systems – The place of mineral systems within tectonic evolution, with an emphasis on Australian examples. <i>Ore Geology Reviews</i> , 2016, 76, 168-210.	1.1	94
67	Continental crust formation on early Earth controlled by intrusive magmatism. <i>Nature</i> , 2017, 545, 332-335.	13.7	174
68	Sulphide-sulphate stability and melting in subducted sediment and its role in arc mantle redox and chalcophile cycling in space and time. <i>Earth and Planetary Science Letters</i> , 2017, 470, 73-86.	1.8	42
69	Continental growth seen through the sedimentary record. <i>Sedimentary Geology</i> , 2017, 357, 16-32.	1.0	81
70	Contrasting Archean (2.85–2.68 Ga) TTGs from the TrÃ³ia Massif (NE-Brazil) and their geodynamic implications for flat to steep subduction transition. <i>Precambrian Research</i> , 2017, 297, 1-18.	1.2	36
71	On the numerical modeling of the deep mantle water cycle in global-scale mantle dynamics: The effects of the water solubility limit of lower mantle minerals. <i>Journal of Earth Science (Wuhan)</i> , 2017, 39, 1-10.	1.0	1
72	Examining tectonic scenarios using geodynamic numerical modelling: Halls Creek Orogen, Australia. <i>Gondwana Research</i> , 2017, 46, 95-113.	3.0	17
73	The structural evolution of the deep continental lithosphere. <i>Tectonophysics</i> , 2017, 695, 100-121.	0.9	25
74	Emergence of silicic continents as the lower crust peels off on a hot plate-tectonic Earth. <i>Nature Geoscience</i> , 2017, 10, 698-703.	5.4	90
75	Crustal recycling evolution. <i>Nature Geoscience</i> , 2017, 10, 623-624.	5.4	3

#	ARTICLE	IF	CITATIONS
76	Singularity analysis of global zircon U-Pb age series and implication of continental crust evolution. <i>Gondwana Research</i> , 2017, 51, 51-63.	3.0	29
77	An essential role for continental rifts and lithosphere in the deep carbon cycle. <i>Nature Geoscience</i> , 2017, 10, 897-902.	5.4	150
78	Rapid high- T decompression recorded by Archean granulites in the northern Wyoming Province: Insights from petrological modelling. <i>Journal of Metamorphic Geology</i> , 2017, 35, 943-965.	1.6	16
79	Archaean basin margin geology and crustal evolution: an East Pilbara traverse. <i>Journal of the Geological Society</i> , 2017, 174, 1090-1112.	0.9	22
80	Hot subduction in the middle Jurassic and partial melting of oceanic crust in Chilean Patagonia. <i>Gondwana Research</i> , 2017, 42, 104-125.	3.0	25
81	Collision vs. subduction-related magmatism: Two contrasting ways of granite formation and implications for crustal growth. <i>Lithos</i> , 2017, 277, 154-177.	0.6	233
82	Paleoproterozoic high-pressure metamorphic history of the Salma eclogite on the Kola Peninsula, Russia. <i>Lithosphere</i> , 2017, 9, 855-873.	0.6	25
83	The habitability of a stagnant-lid Earth. <i>Astronomy and Astrophysics</i> , 2017, 605, A71.	2.1	63
84	Mineral dissolution and reprecipitation mediated by an amorphous phase. <i>Nature Communications</i> , 2018, 9, 1637.	5.8	45
85	Resolving the crustal composition paradox by 3.8 billion years of slab failure magmatism and collisional recycling of continental crust. <i>Tectonophysics</i> , 2018, 734-735, 69-88.	0.9	57
86	Secular change in metamorphism and the onset of global plate tectonics. <i>American Mineralogist</i> , 2018, 103, 181-196.	0.9	347
87	Deep and persistent melt layer in the Archaean mantle. <i>Nature Geoscience</i> , 2018, 11, 139-143.	5.4	28
88	Archaean tectonic systems: A view from igneous rocks. <i>Lithos</i> , 2018, 302-303, 99-125.	0.6	200
89	Archaean crustal growth through successive partial melting events in an oceanic plateau-like setting in the Tanzania Craton. <i>Terra Nova</i> , 2018, 30, 169-178.	0.9	9
90	Episodic concentration of gold to ore grade through Earth's history. <i>Earth-Science Reviews</i> , 2018, 180, 148-158.	4.0	52
91	A planet in transition: The onset of plate tectonics on Earth between 3.8 and 2.8 Ga?. <i>Geoscience Frontiers</i> , 2018, 9, 51-60.	4.3	150
92	Precambrian ultra-hot orogenic factory: Making and reworking of continental crust. <i>Tectonophysics</i> , 2018, 746, 572-586.	0.9	49
93	Stagnant lids and mantle overturns: Implications for Archaean tectonics, magmagenesis, crustal growth, mantle evolution, and the start of plate tectonics. <i>Geoscience Frontiers</i> , 2018, 9, 19-49.	4.3	292

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94	Do cratons preserve evidence of stagnant lid tectonics?. <i>Geoscience Frontiers</i> , 2018, 9, 3-17.	4.3	43
95	Stagnant lid tectonics: Perspectives from silicate planets, dwarf planets, large moons, and large asteroids. <i>Geoscience Frontiers</i> , 2018, 9, 103-119.	4.3	72
96	What drives metamorphism in early Archean greenstone belts? Insights from numerical modeling. <i>Tectonophysics</i> , 2018, 746, 587-601.	0.9	25
97	A review of Palaeoarchaean felsic volcanism in the eastern Kaapvaal craton: Linking plutonic and volcanic records. <i>Geoscience Frontiers</i> , 2018, 9, 667-688.	4.3	47
98	Permian-Triassic Tethyan realm reorganization: Implications for the outward Pangea margin. <i>Journal of South American Earth Sciences</i> , 2018, 81, 78-86.	0.6	30
99	From hot oceanic ridges to cool cratons. <i>Geology</i> , 2018, 46, 1079-1080.	2.0	4
100	Progress in numerical modeling of subducting plate dynamics. <i>Science China Earth Sciences</i> , 2018, 61, 1761-1774.	2.3	4
101	Geological Evidence for the Operation of Plate Tectonics throughout the Archean: Records from Archean Paleo-Plate Boundaries. <i>Journal of Earth Science (Wuhan, China)</i> , 2018, 29, 1291-1303.	1.1	105
102	Crustal evolution and mantle dynamics through Earth history. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170408.	1.6	75
103	The dependence of planetary tectonics on mantle thermal state: applications to early Earth evolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170409.	1.6	31
104	Rates of generation and destruction of the continental crust: implications for continental growth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170403.	1.6	46
105	Geological archive of the onset of plate tectonics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170405.	1.6	227
106	The inception of plate tectonics: a record of failure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170414.	1.6	28
107	EarthN: A New Earth System Nitrogen Model. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2516-2542.	1.0	30
108	Metamorphic consequences of secular changes in oceanic crust composition and implications for uniformitarianism in the geological record. <i>Geoscience Frontiers</i> , 2018, 9, 1009-1019.	4.3	26
109	Specifics of Neoproterozoic Plume-related Lithospheric Processes in the Kola-Norwegian Province of the Fennoscandian Shield: I. Composition and Age of the Komatiite-Tholeiite Association. <i>Petrology</i> , 2018, 26, 121-144.	0.2	4
110	A Tectonic Remnant of the Mesoarchean Oceanic Lithosphere in the Belomorian Province, Fennoscandian Shield. <i>Geotectonics</i> , 2019, 53, 205-230.	0.2	3
111	Identification, classification, and interpretation of boninites from Anthropocene to Eoarchean using Si-Mg-Ti systematics. , 2019, 15, 1008-1037.		121

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112	Metamorphism and the evolution of subduction on Earth. <i>American Mineralogist</i> , 2019, 104, 1065-1082.	0.9	105
113	The Role of N ₂ as a Geo-Biosignature for the Detection and Characterization of Earth-like Habitats. <i>Astrobiology</i> , 2019, 19, 927-950.	1.5	38
114	Continuous plate subduction marked by the rise of alkali magmatism 2.1 billion years ago. <i>Nature Communications</i> , 2019, 10, 3408.	5.8	34
115	The nature of Earth's first crust. <i>Chemical Geology</i> , 2019, 530, 119321.	1.4	40
116	Geochemical evidence for reworking of the juvenile crust in the Neoproterozoic for felsic magmatism in the Yunzhongshan area, the North China Craton. <i>Precambrian Research</i> , 2019, 335, 105493.	1.2	7
117	Thermal structure and evolution of an Archean large hot orogen: Insights from the Tasiuarsuaq terrane, SW Greenland. <i>Precambrian Research</i> , 2019, 335, 105499.	1.2	5
118	Implications for the origins of Eoarchean ultramafic rocks of the North Atlantic Craton: a study of the Tussaap Ultramafic complex, Itsaq Gneiss complex, southern West Greenland. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	1.2	18
119	Lithosphere differentiation in the early Earth controls Archean tectonics. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115755.	1.8	38
120	The geology and tectonic evolution of the northwest part of the Barberton Greenstone Belt, South Africa: A review. <i>South African Journal of Geology</i> , 2019, 122, 421-454.	0.6	13
121	Slow Cooling at Higher Temperatures Recorded within High-Pressure Mafic Granulites from the Southern Granulite Terrain, India: Implications for the Presence and Style of Plate Tectonics near the Archean-Proterozoic Boundary. <i>Journal of Petrology</i> , 2019, 60, 441-486.	1.1	33
123	The continuity equation. , 2019, , 12-25.		0
124	Density and gravity. , 2019, , 26-37.		0
125	Numerical solutions of partial differential equations. , 2019, , 38-49.		0
126	Stress and strain. , 2019, , 50-59.		0
127	The momentum equation. , 2019, , 60-72.		0
128	Viscous rheology of rocks. , 2019, , 73-81.		1
129	Numerical solutions of the momentum and continuity equations. , 2019, , 82-104.		2
130	The advection equation and marker-in-cell method. , 2019, , 105-127.		0

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131	The heat conservation equation. , 2019, , 128-138.		0
132	Numerical solution of the heat conservation equation. , 2019, , 139-155.		1
133	2D thermomechanical code structure. , 2019, , 156-170.		1
134	Elasticity and plasticity. , 2019, , 171-187.		0
135	2D implementation of visco-elasto-plasticity. , 2019, , 188-208.		0
136	2D thermomechanical modelling of inertial processes. , 2019, , 209-223.		0
137	Seismo-thermomechanical modelling. , 2019, , 224-239.		0
138	Hydro-thermomechanical modelling. , 2019, , 240-276.		0
139	Adaptive mesh refinement. , 2019, , 277-291.		0
140	The multigrid method. , 2019, , 292-318.		0
141	Programming of 3D problems. , 2019, , 319-339.		0
142	Numerical benchmarks. , 2019, , 340-368.		0
143	Design of 2D numerical geodynamic models. , 2019, , 369-405.		1
148	Catastrophic shear-removal of subcontinental lithospheric mantle beneath the Colorado Plateau by the subducted Farallon slab. Scientific Reports, 2019, 9, 8153.	1.6	16
149	Adakites without a slab: Remelting of hydrous basalt in the crust and shallow mantle of Borneo to produce the Miocene Sintang Suite and Bau Suite magmatism of West Sarawak. Lithos, 2019, 344-345, 100-121.	0.6	35
150	The relationship between mantle potential temperature and oceanic lithosphere buoyancy. Earth and Planetary Science Letters, 2019, 518, 86-99.	1.8	41
151	Growing primordial continental crust self-consistently in global mantle convection models. Gondwana Research, 2019, 73, 96-122.	3.0	31
152	The Record of the Transition From an Oceanic Arc to a Young Continent in the Tamanca Cordillera. Geochemistry, Geophysics, Geosystems, 2019, 20, 2733-2752.	1.0	11

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153	Metamorphism and exhumation of basement gneiss domes in the Quadril�terro Ferr�fero: Two stage dome-and-keel evolution?. <i>Geoscience Frontiers</i> , 2019, 10, 1765-1787.	4.3	28
154	Time-space evolution of an Archean craton: A Hf-isotope window into continent formation. <i>Earth-Science Reviews</i> , 2019, 196, 102831.	4.0	66
155	A revised petrological model for subducted oceanic crust: Insights from phase equilibrium modelling. <i>Journal of Metamorphic Geology</i> , 2019, 37, 745-768.	1.6	54
156	Time's arrow, time's cycle: Granulite metamorphism and geodynamics. <i>Mineralogical Magazine</i> , 2019, 83, 323-338.	0.6	60
157	Revisiting the Lushan-Taihua Complex: New perspectives on the Late Mesoarchean-Early Neoproterozoic crustal evolution of the southern North China Craton. <i>Precambrian Research</i> , 2019, 325, 132-149.	1.2	29
158	Geochemistry and petrogenesis of Archean mafic rocks from the Amsaga area, West African craton, Mauritania. <i>Precambrian Research</i> , 2019, 324, 208-219.	1.2	4
159	The influence of plate tectonic style on melt production and CO ₂ outgassing flux at mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2019, 511, 154-163.	1.8	14
160	Generation of Earth's Early Continents From a Relatively Cool Archean Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1679-1697.	1.0	31
161	Episodic collisional orogenesis and lower crust exhumation during the Palaeoproterozoic Eburnean Orogeny: Evidence from the Sefwi Greenstone Belt, West African Craton. <i>Precambrian Research</i> , 2019, 325, 88-110.	1.2	31
162	Eoarchean tectonics: New constraints from high pressure-temperature experiments and mass balance modelling. <i>Precambrian Research</i> , 2019, 325, 20-38.	1.2	39
163	Modeling Early Earth Tectonics. , 2019, , 65-80.		3
164	The Formation of Tonalites��Trondjhemite��Granodiorites in Early Continental Crust. , 2019, , 133-168.		29
165	Early Crustal Evolution as Recorded in the Granitoids of the Singhbhum and Western Dharwar Cratons. , 2019, , 741-792.		25
166	The dynamic life of an oceanic plate. <i>Tectonophysics</i> , 2019, 760, 107-135.	0.9	33
167	The 2.73 Ga I-type granites in the Lengshui Complex and implications for the Neoproterozoic tectonic evolution of the Yangtze Craton. <i>International Geology Review</i> , 2020, 62, 649-664.	1.1	9
168	The development of a Meso- to Neoproterozoic rifting-convergence-collision-collapse cycle over an ancient thickened protocontinent in the south S�o Francisco craton, Brazil. <i>Gondwana Research</i> , 2020, 77, 40-66.	3.0	27
169	Petrogenesis and tectonic implications of 2.45��Ga potassic A-type granite in the Daqingshan area, Yinshan Block, North China Craton. <i>Precambrian Research</i> , 2020, 336, 105435.	1.2	21
170	Orosirian magmatism in the Tapaj�s Mineral Province (Amazonian Craton): The missing link to understand the onset of Paleoproterozoic tectonics. <i>Lithos</i> , 2020, 356-357, 105350.	0.6	7

#	ARTICLE	IF	CITATIONS
171	Komatiites From Mantle Transition Zone Plumes. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	12
172	Applying Popperian falsifiability to geodynamic hypotheses: empirical testing of the episodic crustal/zircon production hypothesis and selective preservation hypothesis. <i>International Geology Review</i> , 2021, 63, 1920-1950.	1.1	15
173	Open-system fractional melting of Archean basalts: implications for tonaliteâ€“trondhjemiteâ€“granodiorite (TTG) magma genesis. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	1.2	15
174	Timescale of Shortâ€“Term Subduction Episodicity in Convection Models With Grain Damage: Applications to Archean Tectonics. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020478.	1.4	0
175	Thermochemical lithosphere differentiation and the origin of cratonic mantle. <i>Nature</i> , 2020, 588, 89-94.	13.7	37
176	Plate tectonics: What, where, why, and when?. <i>Gondwana Research</i> , 2021, 100, 3-24.	3.0	74
177	Ridge subduction, magmatism, and metallogenesis. <i>Science China Earth Sciences</i> , 2020, 63, 1499-1518.	2.3	26
178	MÃ©langes through time: Life cycle of the world's largest Archean mÃ©lange compared with Mesozoic and Paleozoic subduction-accretion-collision mÃ©langes. <i>Earth-Science Reviews</i> , 2020, 209, 103303.	4.0	68
179	Signatures of early microbial life from the Archean (4 to 2.5Ã©Ga) eon. <i>Earth-Science Reviews</i> , 2020, 209, 103296.	4.0	71
180	Thermo-compositional structure of the north-eastern Canadian Shield from Rayleigh wave dispersion analysis as a record of its tectonic history. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116465.	1.8	7
181	From Mesoarchean drips to modernâ€“style tectonics in the CarajÃ©s Province, Amazonian Craton. <i>Journal of South American Earth Sciences</i> , 2020, 104, 102817.	0.6	4
182	Mechanism of Paleoproterozoic continental crust formation as archived in granitoids from the northern part of Singhbhum Craton, eastern India. <i>Geological Society Special Publication</i> , 2020, 489, 189-214.	0.8	13
183	Mechanism of Paleoproterozoic continental crust formation as archived in granitoids from northern part of Singhbhum Craton, eastern India. <i>Geological Society Special Publication</i> , 0, , SP489-2019-202.	0.8	7
184	Mineralogy and density of Archean volcanic crust in the mantle transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 305, 106490.	0.7	3
185	Geochemical evidence for a widespread mantle re-enrichment 3.2 billion years ago: implications for global-scale plate tectonics. <i>Scientific Reports</i> , 2020, 10, 9461.	1.6	27
186	Continuous continental growth as constrained by the sedimentary record. <i>Numerische Mathematik</i> , 2020, 320, 373-401.	0.7	21
187	Initiation of modern-style subduction in the Neoproterozoic: From plume to subduction with frequent slab break-off. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 2119-2134.	1.6	8
188	Slabification: Mechanisms controlling subduction development and viscous coupling. <i>Earth-Science Reviews</i> , 2020, 208, 103259.	4.0	42

#	ARTICLE	IF	CITATIONS
189	The nature of subduction system in the Neoproterozoic: Magmatic records from the northern Yangtze Craton, South China. <i>Precambrian Research</i> , 2020, 347, 105834.	1.2	19
190	A mushy Earth's mantle for more than 500 Myr after the magma ocean solidification. <i>Geophysical Journal International</i> , 2020, 221, 1165-1181.	1.0	15
191	Probing space to understand Earth. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 170-181.	12.2	24
192	Polyphase Zircon Growth during Slow Cooling from Ultrahigh Temperature: an Example from the Archean Pikwitonei Granulite Domain. <i>Journal of Petrology</i> , 2020, 61, .	1.1	12
193	Do impacts impact global tectonics?. <i>Geology</i> , 2020, 48, 205-206.	2.0	1
194	Plate Tectonics and the Archean Earth. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 291-320.	4.6	196
195	Peel-back controlled lithospheric convergence explains the secular transitions in Archean metamorphism and magmatism. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116224.	1.8	49
196	Recycled carbonate-induced oxidization of the convective mantle beneath Jiaodong, Eastern China. <i>Lithos</i> , 2020, 366-367, 105544.	0.6	11
197	Plate Tectonics. , 2021, , 744-758.		6
198	Petrogenesis of a rare Ediacaran tonalite "trondhjemitic" granodiorite suite, Egypt, and implications for Neoproterozoic Gondwana assembly. <i>Geological Magazine</i> , 2021, 158, 701-722.	0.9	10
199	Local Rapid Exhumation and Fast Cooling in a Long-lived Paleoproterozoic Orogeny. <i>Journal of Petrology</i> , 2021, 61, .	1.1	5
200	Subduction-Driven Volatile Recycling: A Global Mass Balance. <i>Annual Review of Earth and Planetary Sciences</i> , 2021, 49, 37-70.	4.6	65
201	Mantle cooling and cratonization of Archean lithosphere by continuous plate subduction: Constraints from TTGs, sanukitoids, and high-K granites, eastern North China Craton. <i>Precambrian Research</i> , 2021, 353, 106042.	1.2	6
202	Garnet and zircon geochronology of the Paleoproterozoic Kuru-Vaara eclogites, northern Belomorian Province, Fennoscandian Shield. <i>Precambrian Research</i> , 2021, 353, 106014.	1.2	20
203	Late Neoproterozoic metavolcanics and geodynamics regime in central and eastern North China Craton. <i>Acta Petrologica Sinica</i> , 2021, 37, 113-128.	0.3	10
204	Accretionary models for the Neoproterozoic evolution of the Borborema Province: advances and open questions. <i>Brazilian Journal of Geology</i> , 2021, 51, .	0.3	6
205	The Diverse Planetary Ingressing/Outgassing Paths Produced over Billions of Years of Magmatic Activity. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	32
206	Compositions and Classification of Fractionated Boninite Series Melts from the Izu "Bonin" Mariana Arc: A Machine Learning Approach. <i>Journal of Petrology</i> , 2021, 62, .	1.1	6

#	ARTICLE	IF	CITATIONS
207	Constraining the Volume of Earth's Early Oceans With a Temperature-Dependent Mantle Water Storage Capacity Model. <i>AGU Advances</i> , 2021, 2, e2020AV000323.	2.3	30
208	Metamorphic evolution for the Inyoni shear zone: Investigating the geodynamic evolution of a 3.20 Ga terrane boundary in the Barberton granitoid greenstone terrane, South Africa. <i>South African Journal of Geology</i> , 2021, 124, 163-180.	0.6	2
209	Petrology, geochemistry, Ar-Ar isotopes of an arc related calc-alkaline pluton from Mamb (Pan-African) Tj ETQq0 0 0 rgBT /Overlock 10 T 384-385, 105973.	0.6	7
210	Petrogenesis of Archaean granites in the Barberton region of South Africa as a guide to early crustal evolution. <i>South African Journal of Geology</i> , 2021, 124, 111-140.	0.6	4
211	Archean continental crust formed by magma hybridization and voluminous partial melting. <i>Scientific Reports</i> , 2021, 11, 5263.	1.6	22
212	The supercontinent cycle. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 358-374.	12.2	102
213	The Effect of Core Formation on Surface Composition and Planetary Habitability. <i>Astrophysical Journal Letters</i> , 2021, 913, L10.	3.0	8
214	Time will tell: Secular change in metamorphic timescales and the tectonic implications. <i>Gondwana Research</i> , 2021, 93, 291-310.	3.0	24
215	Petrology and geochemistry of the Pan-African high-K calc-alkaline to shoshonitic-adakitic BapÃ© plutonic suites (Adamawa-Yade block, Cameroon): evidence of a hot oceanic crust subduction. <i>International Journal of Earth Sciences</i> , 2021, 110, 2067-2090.	0.9	16
216	Subduction Polarity Reversal: Induced or Spontaneous?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093201.	1.5	9
217	Thermal evolution of the Stolzburg Block, Barberton granitoid-greenstone terrain, South Africa: Implications for Paleoproterozoic tectonic processes. <i>Precambrian Research</i> , 2021, 359, 106082.	1.2	4
218	Hadean geodynamics and the nature of early continental crust. <i>Precambrian Research</i> , 2021, 359, 106178.	1.2	62
219	Ultra-high pressure inclusion in Archean ophiolitic podiform chromitite in mÃ©lange block suggests deep subduction on early Earth. <i>Precambrian Research</i> , 2021, 362, 106318.	1.2	18
220	Distributed crustal shortening followed by transpressional shearing in the Superior Province, northeastern Canada: A Late Archean analogy to modern accretionary plate margins?. <i>Precambrian Research</i> , 2021, 362, 106322.	1.2	7
221	Ocean Plate Stratigraphy of a long-lived Precambrian subduction-accretion system: The Wutai Complex, North China Craton. <i>Precambrian Research</i> , 2021, 363, 106334.	1.2	13
222	From subduction initiation to hot subduction: Life of a Neoproterozoic subduction zone from the Dengfeng Greenstone Belt, North China Craton. <i>Bulletin of the Geological Society of America</i> , 2022, 134, 1277-1300.	1.6	7
223	Crustal Derivation of the <i>ca</i> . 475-Ma Eppawala Carbonatites in Sri Lanka. <i>Journal of Petrology</i> , 2021, 62, .	1.1	8
224	The "pargasosphere" hypothesis: Looking at global plate tectonics from a new perspective. <i>Global and Planetary Change</i> , 2021, 204, 103547.	1.6	22

#	ARTICLE	IF	CITATIONS
225	Deserpentinization and high-pressure (eclogite-facies) metamorphic features in the Eoarchean ultramafic body from Isua, Greenland. <i>Geoscience Frontiers</i> , 2022, 13, 101298.	4.3	10
226	On the paragenetic modes of minerals: A mineral evolution perspective. <i>American Mineralogist</i> , 2022, 107, 1262-1287.	0.9	31
227	A non-arc tectonic setting for the evolution of Archean gabbro anorthosite Complexes: Evidence from the Singhbhum Craton, eastern India. <i>Precambrian Research</i> , 2021, 363, 106250.	1.2	7
228	Cyclic tectono-magmatic evolution of TTG source regions in plume-lid tectonics. <i>Gondwana Research</i> , 2021, 99, 93-109.	3.0	7
229	Model versus measured detrital zircon age signatures of the early Earth. <i>Earth and Planetary Science Letters</i> , 2021, 575, 117182.	1.8	3
231	Crustal and mantle evolution. , 2022, , 139-195.		0
232	Two Major Transitions in Earth History: Evidence of Two Lithospheric Strength Thresholds. <i>Journal of Geology</i> , 2021, 129, 455-473.	0.7	17
233	Evolving Early Earth: Insights from Peninsular India. <i>Springer Geology</i> , 2020, , 5-103.	0.2	7
234	Mantle Geochemistry. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 867-878.	0.1	3
236	Crustal Evolution and Deformation in a Non-Plate-Tectonic Archean Earth: Comparisons with Venus. <i>Modern Approaches in Solid Earth Sciences</i> , 2014, , 215-291.	0.1	39
237	Secular change and the onset of plate tectonics on Earth. <i>Earth-Science Reviews</i> , 2020, 207, 103172.	4.0	171
239	Dawn of metazoans: to what extent was this influenced by the onset of "modern-type plate tectonics"? <i>Brazilian Journal of Geology</i> , 2020, 50, .	0.3	7
240	Review and overview for the frontier hotspot: Early continents and start of plate tectonics. <i>Acta Petrologica Sinica</i> , 2020, 36, 2249-2275.	0.3	9
241	Partial melting of subduction zones. <i>Acta Petrologica Sinica</i> , 2020, 36, 2589-2615.	0.3	8
242	The Inner Solar System's Habitability Through Time. , 2005, , 1-1.		1
243	Paleoarchean evolution of the Singhbhum Craton, eastern India: New constraints from geochemistry and geochronology of granitoids of Bonai and Champua area. <i>Precambrian Research</i> , 2021, 366, 106429.	1.2	8
245	Mantle Geochemistry. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 1-12.	0.1	1
246	The late Earth's accretion: Processes and materials. <i>Russian Journal of Earth Sciences</i> , 2018, 18, 1-16.	0.2	0

#	ARTICLE	IF	CITATIONS
247	Late Neoproterozoic magmatism and crustal growth in northern Liaoning: Evidence from zircon U-Pb geochronology and petro-geochemistry of the Qingyuan trondhjemitites. <i>Acta Petrologica Sinica</i> , 2020, 36, 333-355.	0.3	9
248	Possible heat-pipe tectonics of the early Earth: Insights from Jupiter's moon Io. <i>Acta Petrologica Sinica</i> , 2020, 36, 3853-3870.	0.3	1
249	Plate Boundary Interactions Through Geologic History. , 2020, , 123-142.		3
250	Depletion of the upper mantle by convergent tectonics in the Early Earth. <i>Scientific Reports</i> , 2021, 11, 21489.	1.6	5
251	Metamorphism and tectonic mechanisms of subduction zones. <i>Acta Petrologica Sinica</i> , 2021, 37, 3377-3398.	0.3	2
252	LLSVPs of primordial origin: Implications for the evolution of plate tectonics. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117357.	1.8	0
254	Neoproterozoic basement, mantle enrichment and crustal extraction in central Asia: petrogenesis of 2.5 Ga amphibolite and metadiorite in NE China. <i>Numerische Mathematik</i> , 2021, 321, 1350-1379.	0.7	2
255	Crystal-Chemical and Structural Characterization of Omphacite in High-Pressure Eclogites From the Arica Complex on Southwestern Pijao, Central Cordillera (Colombian Andes). <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	0
256	Active and Passive Seismic Imaging of the Central Abitibi Greenstone Belt, Larder Lake, Ontario. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	1
257	Mafic dykes and chaotic rock units: Implications for exhumed subduction complexes and orogenic belts. <i>Geosystems and Geoenvironment</i> , 2022, 1, 100030.	1.7	17
258	A New Model of Archean Craton Formation and Plate Tectonics Based on Discoveries in the Yilgarn Province of Western Australia. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
259	Petrogenesis of Bonai volcanic rocks from Singhbhum Craton (Eastern India): Geophysical and geodynamic implications for pervasive plume-lithospheric interaction. <i>Geosystems and Geoenvironment</i> , 2022, , 100040.	1.7	3
260	Secular cooling, differentiation and tectonic regimes of the Hadean Earth from a comparative planetological perspective. <i>Chinese Science Bulletin</i> , 2023, 68, 2284-2295.	0.4	1
261	Neoproterozoic subduction-like magmatism recorded in 3750-Ma mafic-ultramafic rocks of the Ukaliq supracrustal belt (Qubec). <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	1.2	9
262	A model of crust-mantle differentiation for the early Earth. <i>Acta Geochimica</i> , 2022, 41, 689-703.	0.7	3
263	Archean eclogite-facies oceanic crust indicates modern-style plate tectonics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117529119.	3.3	40
264	Archean crust-mantle geodynamic regimes: A review. <i>Geosystems and Geoenvironment</i> , 2022, 1, 100063.	1.7	6
265	Craton Formation in Early Earth Mantle Convection Regimes. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	6

#	ARTICLE	IF	CITATIONS
266	Secular changes in metamorphism and metamorphic cooling rates track the evolving plate-tectonic regime on Earth. <i>Journal of the Geological Society</i> , 2022, 179, .	0.9	8
267	The Neoproterozoic, a turning point for geodynamic and magmatic processes within the Superior craton?. , 2022, , .		1
268	Petrogenesis delineation of the felsic intrusive rocks in the eastern North China Craton: Implications for crustal evolution and geodynamic regimes. <i>Lithos</i> , 2022, 422-423, 106728.	0.6	1
269	Geochemical constraints on the nature of Late Archean basaltic-andesitic magmatism in the North China Craton. <i>Earth-Science Reviews</i> , 2022, 230, 104065.	4.0	15
270	Metamorphic evolution of the Sittampundi Layered Complex, India, during the Archean-Proterozoic boundary: insight from pseudosection modelling and zircon U-Pb SHRIMP geochronology. <i>Geological Magazine</i> , 0, , 1-29.	0.9	0
271	The record of plume-arc interaction in the Southern São Francisco Craton – Insights from the Pitangui greenstone belt. <i>Journal of South American Earth Sciences</i> , 2022, 116, 103857.	0.6	0
272	Clues from Garnet-Spinel-Bearing Peridotite and Pyroxenite Xenoliths about the Formation of the Subcratonic Lithospheric Mantle – a Case Study from the Orapa Kimberlite Cluster. <i>Journal of Petrology</i> , 2022, 63, .	1.1	2
273	Oxygen isotope ($\delta^{18}O$, $\delta^{17}O$) insights into continental mantle evolution since the Archean. <i>Nature Communications</i> , 2022, 13, .	5.8	6
274	Growth of continental crust in intra-oceanic and continental-margin arc systems: Analogs for Archean systems. <i>Science China Earth Sciences</i> , 2022, 65, 1615-1645.	2.3	22
275			
276	The Abitibi-Opatika transition, Superior Province, Quebec, Canada: Structural analysis, $^{40}Ar/^{39}Ar$ thermochronology and implications for Archean tectonics. <i>Precambrian Research</i> , 2022, 379, 106803.	1.2	2
277	21ä, –ç ⁹⁹ æjå –æž,,é€. <i>SCIENTIA SINICA Terrae</i> , 2023, 53, 1-40.	0.1	7
278	Field and geochemical characteristics of the amphibolites from the Gadag greenstone belt, southern India: Implications for petrogenesis. <i>Journal of Earth System Science</i> , 2022, 131, .	0.6	0
279	Formation and evolution of Archean continental crust: A thermodynamic – geochemical perspective of granitoids from the Tarim Craton, NW China. <i>Earth-Science Reviews</i> , 2022, 234, 104219.	4.0	12
280	Episodic Plate Tectonics on Europa: Evidence for Widespread Patches of Mobile-Lid Behavior in the Antijovian Hemisphere. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	7
281	Plate tectonics in the twenty-first century. <i>Science China Earth Sciences</i> , 2023, 66, 1-40.	2.3	24
282	Thermo-Compositional Structure of the South American Platform Lithosphere: Evidence of Stability, Modification, and Erosion. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	1
283	Origin of the oldest (3600–3200 Ma) cratonic core in the Western Dharwar Craton, Southern India: Implications for evolving tectonics of the Archean Earth. <i>Earth-Science Reviews</i> , 2023, 236, 104278.	4.0	8

#	ARTICLE	IF	CITATIONS
284	Formation of oxidized sulfur-rich magmas in Neoproterozoic subduction zones. <i>Nature Geoscience</i> , 2022, 15, 1064-1070.	5.4	3
285	Ultrastructure of a Columbite-Tantalite Mineral from the Zhaojinggou Ta-Nb Deposit in the North China Craton: Direct Evidence of the Formation Mechanism of the Columbite-Group Minerals. <i>Geofluids</i> , 2022, 2022, 1-9.	0.3	2
286	Secular Evolution of Continents and the Earth System. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	40
287	Spatial and temporal control of Archean tectonomagmatic regimes. <i>Earth-Science Reviews</i> , 2023, 241, 104417.	4.0	5
288	Quantifying Continental Crust Thickness Using the Machine Learning Method. <i>Journal of Geophysical Research: Solid Earth</i> , 2023, 128, .	1.4	2
289	Flat subduction in the Early Earth: The key role of discrete eclogitization kinetics. <i>Gondwana Research</i> , 2023, 119, 186-203.	3.0	5
295	Pre-Cryogenian stratigraphy, palaeontology, and paleogeography of the Tibetan Plateau and environs. <i>Science China Earth Sciences</i> , 0, , .	2.3	0
306	Plate tectonics in the Archean: Observations versus interpretations. <i>Science China Earth Sciences</i> , 0, , .	2.3	0