

Nicholas Gardiner

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,047
citations

279798

23
h-index

276875

41
g-index

44
all docs

44
docs citations

44
times ranked

1467
citing authors

#	ARTICLE	IF	CITATIONS
1	Earth's first stable continents did not form by subduction. <i>Nature</i> , 2017, 543, 239-242.	27.8	304
2	Plate Tectonics and the Archean Earth. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 291-320.	11.0	196
3	Apatite: a U-Pb thermochronometer or geochronometer?. <i>Lithos</i> , 2018, 318-319, 143-157.	1.4	108
4	Neo-Tethyan magmatism and metallogeny in Myanmar – An Andean analogue?. <i>Journal of Asian Earth Sciences</i> , 2015, 106, 197-215.	2.3	97
5	The closure of Palaeo-Tethys in Eastern Myanmar and Northern Thailand: New insights from zircon U-Pb and Hf isotope data. <i>Gondwana Research</i> , 2016, 39, 401-422.	6.0	96
6	Secular change in TTG compositions: Implications for the evolution of Archaean geodynamics. <i>Earth and Planetary Science Letters</i> , 2019, 505, 65-75.	4.4	94
7	Petrogenesis of Malaysian granitoids in the Southeast Asian tin belt: Part 2. U-Pb zircon geochronology and tectonic model. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 1238-1258.	3.3	88
8	The tectonic and metallogenic framework of Myanmar: A Tethyan mineral system. <i>Ore Geology Reviews</i> , 2016, 79, 26-45.	2.7	78
9	The crustal architecture of Myanmar imaged through zircon U-Pb, Lu-Hf and O isotopes: Tectonic and metallogenic implications. <i>Gondwana Research</i> , 2018, 62, 27-60.	6.0	76
10	Petrogenesis of Malaysian granitoids in the Southeast Asian tin belt: Part 1. Geochemical and Sr-Nd isotopic characteristics. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 1209-1237.	3.3	73
11	Contrasting Granite Metallogeny through the Zircon Record: A Case Study from Myanmar. <i>Scientific Reports</i> , 2017, 7, 748.	3.3	72
12	Processes of crust formation in the early Earth imaged through Hf isotopes from the East Pilbara Terrane. <i>Precambrian Research</i> , 2017, 297, 56-76.	2.7	67
13	Proterozoic crustal evolution of the Eucla basement, Australia: Implications for destruction of oceanic crust during emergence of Nuna. <i>Lithos</i> , 2017, 278-281, 427-444.	1.4	54
14	The Juvenile Hafnium Isotope Signal as a Record of Supercontinent Cycles. <i>Scientific Reports</i> , 2016, 6, 38503.	3.3	53
15	Building Mesoarchaeoan crust upon Eoarchaeoan roots: the Akia Terrane, West Greenland. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	53
16	Chapter 12 – Tectonic and metamorphic evolution of the Mogok Metamorphic and Jade Mines belts and ophiolitic terranes of Burma (Myanmar). <i>Geological Society Memoir</i> , 2017, 48, 261-293.	1.7	50
17	An impact melt origin for Earth's oldest known evolved rocks. <i>Nature Geoscience</i> , 2018, 11, 795-799.	12.9	45
18	Crustal rejuvenation stabilised Earth's first cratons. <i>Nature Communications</i> , 2021, 12, 3535.	12.8	45

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19	Melting controls on the lutetium–hafnium evolution of Archaean crust. <i>Precambrian Research</i> , 2018, 305, 479-488.	2.7	35
20	The metallogenic provinces of Myanmar. <i>Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science</i> , 2014, 123, 25-38.	0.8	34
21	Titanite petrochronology linked to phase equilibrium modelling constrains tectono-thermal events in the Akia Terrane, West Greenland. <i>Chemical Geology</i> , 2020, 536, 119467.	3.3	33
22	Did Oligocene crustal thickening precede basin development in northern Thailand? A geochronological reassessment of Doi Inthanon and Doi Suthep. <i>Lithos</i> , 2016, 240-243, 69-83.	1.4	32
23	Mesoarchean partial melting of mafic crust and tonalite production during high- T –low- P stagnant tectonism, Akia Terrane, West Greenland. <i>Precambrian Research</i> , 2020, 339, 105615.	2.7	30
24	Tin mining in Myanmar: Production and potential. <i>Resources Policy</i> , 2015, 46, 219-233.	9.6	24
25	North Atlantic Craton architecture revealed by kimberlite-hosted crustal zircons. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116091.	4.4	22
26	Differentiating between Inherited and Autocrystic Zircon in Granitoids. <i>Journal of Petrology</i> , 2020, 61, .	2.8	20
27	Isotopic insight into the Proterozoic crustal evolution of the Rudall Province, Western Australia. <i>Precambrian Research</i> , 2018, 313, 31-50.	2.7	19
28	A window into an ancient backarc? The magmatic and metamorphic history of the Fraser Zone, Western Australia. <i>Precambrian Research</i> , 2019, 323, 55-69.	2.7	19
29	The phases of the Moon: Modelling crystallisation of the lunar magma ocean through equilibrium thermodynamics. <i>Earth and Planetary Science Letters</i> , 2021, 556, 116721.	4.4	19
30	Theoretical versus empirical secular change in zircon composition. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116660.	4.4	17
31	Modelling the Hafnium–Neodymium Evolution of Early Earth: A Study from West Greenland. <i>Journal of Petrology</i> , 2019, 60, 177-197.	2.8	13
32	Zircon U – Pb , Lu – Hf and O isotopes from the 3414-Ma Strelley Pool Formation, East Pilbara Terrane, and the Palaeoarchaean emergence of a cryptic cratonic core. <i>Precambrian Research</i> , 2019, 321, 64-84.	2.7	12
33	Geodynamic Implications of Synchronous Norite and TTG Formation in the 3Ga Maniitsoq Norite Belt, West Greenland. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	12
34	Holocene volcanic activity in Anjouan Island (Comoros archipelago) revealed by new Cassagnol-Gillot groundmass K – Ar and ^{14}C ages. <i>Quaternary Geochronology</i> , 2022, 67, 101236.	1.4	12
35	Metal anomalies in zircon as a record of granite-hosted mineralization. <i>Chemical Geology</i> , 2021, 585, 120580.	3.3	11
36	Regional zircon U - Pb geochronology for the Maniitsoq region, southwest Greenland. <i>Scientific Data</i> , 2021, 8, 139.	5.3	9

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37	The Mesoarchaeoan Akia terrane, West Greenland, revisited: New insights based on spatial integration of geophysics, field observation, geochemistry and geochronology. <i>Precambrian Research</i> , 2021, 352, 105958.	2.7	8
38	Stirred not shaken; critical evaluation of a proposed Archean meteorite impact in West Greenland. <i>Earth and Planetary Science Letters</i> , 2021, 557, 116730.	4.4	8
39	Multitechnique Geochronology of Intrusive and Explosive Activity on Piton des Neiges Volcano, RÅunion Island. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	5