Thomas Chacko

List of Publications by Year in descending order

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37 papers	3,045 citations	257450 24 h-index	361022 35 g-index
37 all docs	37 docs citations	37 times ranked	2166 citing authors

#	Article	IF	Citations
1	Oxygen isotope fractionations involving diopside, forsterite, magnetite, and calcite: Application to geothermometry. Geochimica Et Cosmochimica Acta, 1989, 53, 2985-2995.	3.9	461
2	The Granulite Uncertainty Principle: Limitations on Thermobarometry in Granulites. Journal of Geology, 1989, 97, 435-450.	1.4	380
3	Oxygen and carbon isotope fractionations between CO2 and calcite. Geochimica Et Cosmochimica Acta, 1991, 55, 2867-2882.	3.9	351
4	Earthâ€™s earliest evolved crust generated in an Iceland-like setting. Nature Geoscience, 2014, 7, 529-533.	12.9	178
5	Metamorphic P-T Conditions of the Kerala (South India) Khondalite Belt, a Granulite Facies Supracrustal Terrain. Journal of Geology, 1987, 95, 343-358.	1.4	162
6	In situ petrographic thin section Uâ€“Pb dating of zircon, monazite, and titanite using laser ablationâ€“MCâ€“ICP-MS. International Journal of Mass Spectrometry, 2006, 253, 87-97.	1.5	147
7	Theoretical calculation of oxygen isotope fractionation factors in carbonate systems. Geochimica Et Cosmochimica Acta, 2008, 72, 3642-3660.	3.9	123
8	Role of oceanic plateaus in the initiation of subduction and origin of continental crust. Geology, 2008, 36, 583.	4.4	120
9	Oxygen isotope fractionations in muscovite, phlogopite, and rutile. Geochimica Et Cosmochimica Acta, 1996, 60, 2595-2608.	3.9	93
10	Diamond growth from oxidized carbon sources beneath the Northern Slave Craton, Canada: A Î´13Câ€“N study of eclogite-hosted diamonds from the Jericho kimberlite. Geochimica Et Cosmochimica Acta, 2011, 75, 6027-6047.	3.9	89
11	Geochemistry of high-grade supracrustal rocks from the Kerala Khondalite Belt and adjacent massif charnockites, South India. Precambrian Research, 1992, 55, 469-489.	2.7	85
12	The origin of high-MgO diamond eclogites from the Jericho Kimberlite, Canada. Earth and Planetary Science Letters, 2009, 284, 527-537.	4.4	85
13	The birth of a cratonic nucleus: Lithogeochemical evolution of the 4.02â€“2.94 Ga Acasta Gneiss Complex. Precambrian Research, 2016, 281, 453-472.	2.7	73
14	A new technique for determining equilibrium hydrogen isotope fractionation factors using the ion microprobe: application to the epidote-water system. Geochimica Et Cosmochimica Acta, 1999, 63, 1-10.	3.9	69
15	Queen Maud block: A newly recognized Paleoproterozoic (2.4â€“2.5 Ga) terrane in northwest Laurentia. Geology, 2007, 35, 707.	4.4	66
16	Tectonic setting of the Taltson magmatic zone at 1.9Â–2.0 Ga: a granitoid-based perspective. Canadian Journal of Earth Sciences, 2000, 37, 1597-1609.	1.3	60
17	Geochemical and Nd-Pb-O isotope systematics of granites from the Taltson Magmatic Zone, NE Alberta: implications for early Proterozoic tectonics in western Laurentia. Precambrian Research, 2000, 102, 221-249.	2.7	53
18	Petrogenesis and tectonics of the Acasta Gneiss Complex derived from integrated petrology and 142Nd and 182W extinct nuclide-geochemistry. Earth and Planetary Science Letters, 2018, 494, 12-22.	4.4	53

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19	Isotopic evidence for involvement of C02-bearing magmas in granulite formation. Nature, 1991, 354, 60-63.	27.8	47
20	Preservation of oxygen isotope compositions in granulites from Northwestern Canada and Enderby Land, Antarctica: implications for high-temperature isotopic thermometry. Contributions To Mineralogy and Petrology, 1996, 125, 213-224.	3.1	44
21	Strategies for high-temperature oxygen isotope thermometry: a worked example from the Laramie Anorthosite Complex, Wyoming, USA. Earth and Planetary Science Letters, 1993, 117, 407-422.	4.4	43
22	Eclogite formation beneath the northern Slave craton constrained by diamond inclusions: Oceanic lithosphere origin without a crustal signature. Earth and Planetary Science Letters, 2012, 319-320, 165-177.	4.4	39
23	A Record of Paleoproterozoic Subduction Preserved in the Northern Slave Cratonic Mantle: Srâ€“Pbâ€“O Isotope and Trace-element Investigations of Eclogite Xenoliths from the Jericho and Muskox Kimberlites. Journal of Petrology, 2014, 55, 549-583.	2.8	35
24	1. Equilibrium Oxygen, Hydrogen and Carbon Isotope Fractionation Factors Applicable to Geologic Systems. , 2001, , 1-82.		32
25	A comparison between zircons from the Acasta Gneiss Complex and the Jack Hills region. Earth and Planetary Science Letters, 2020, 531, 115975.	4.4	32
26	Data Reduction of Laser Ablation Splitâ€Stream (LASS) Analyses Using Newly Developed Features Within Iolite: With Applications to Luâ€Hfâ€‰+â€‰Uâ€Pb in Detrital Zircon and Smâ€Nd +Uâ€Pb in Igneous Monazite. Geochemistry, Geophysics, Geosystems, 2017, 18, 4604-4622.	2.5	27
27	Carbon and Nitrogen in Mantle-Derived Diamonds. Reviews in Mineralogy and Geochemistry, 2022, 88, 809-875.	4.8	17
28	A reconnaissance view of tungsten reservoirs in some crustal and mantle rocks: Implications for interpreting W isotopic compositions and crust-mantle W cycling. Geochimica Et Cosmochimica Acta, 2018, 223, 300-318.	3.9	16
29	Granulite sulphides as tracers of lower crustal origin and evolution: An example from the Slave craton, Canada. Geochimica Et Cosmochimica Acta, 2010, 74, 5368-5381.	3.9	14
30	Exsolution-enhanced oxygen exchange: Implications for oxygen isotope closure temperatures in minerals. Geology, 1994, 22, 751.	4.4	10
31	The Acasta Gneiss Complex. , 2019, , 329-347.		8
32	A Reconnaissance Study of Ti-minerals in Cratonic Granulite Xenoliths and their Potential as Recorders of Lower Crust Formation and Evolution. Journal of Petrology, 2017, 58, 2007-2034.	2.8	7
33	Elemental and radiogenic isotope perspective on formation and transformation of cratonic lower crust: Central Slave craton (Canada). Geochimica Et Cosmochimica Acta, 2020, 278, 78-93.	3.9	7
34	Insights into sea surface temperatures from the Cayman Islands from corals over the last ~540â€¯years. Sedimentary Geology, 2019, 389, 218-240.	2.1	6
35	Geoelectric structure of the Great Slave Lake shear zone in northwest Alberta: implications for structure and tectonic history. Canadian Journal of Earth Sciences, 2018, 55, 295-307.	1.3	5
36	Evaluating the Age Distribution of Exposed Crust in the Acasta Gneiss Complex Using Detrital Zircons in Pleistocene Eskers. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	5

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37	Heat production and moho temperatures in cratonic crust: evidence from lower crustal xenoliths from the slave craton. Lithos, 2021, 380-381, 105889.	1.4	3