Chenguang Sun

List of Publications by Year
in descending order

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24 papers	1,789 citations	471509 17 h-index	642732 23 g-index
27 all docs	27 docs citations	27 times ranked	1344 citing authors

#	Article	IF	Citations
1	Geochemical and Srâ€“Ndâ€“Pbâ€“O isotopic compositions of the post-collisional ultrapotassic magmatism in SW Tibet: Petrogenesis and implications for India intra-continental subduction beneath southern Tibet. Lithos, 2009, 113, 190-212.	1.4	388
2	Postcollisional potassic and ultrapotassic rocks in southern Tibet: Mantle and crustal origins in response to Indiaâ€“Asia collision and convergence. Geochimica Et Cosmochimica Acta, 2014, 143, 207-231.	3.9	187
3	A REE-in-two-pyroxene thermometer for mafic and ultramafic rocks. Geochimica Et Cosmochimica Acta, 2013, 102, 246-260.	3.9	163
4	Distribution of REE between clinopyroxene and basaltic melt along a mantle adiabat: effects of major element composition, water, and temperature. Contributions To Mineralogy and Petrology, 2012, 163, 807-823.	3.1	159
5	Trace element partitioning between plagioclase and silicate melt: The importance of temperature and plagioclase composition, with implications for terrestrial and lunar magmatism. Geochimica Et Cosmochimica Acta, 2017, 206, 273-295.	3.9	113
6	An assessment of subsolidus re-equilibration on REE distribution among mantle minerals olivine, orthopyroxene, clinopyroxene, and garnet in peridotites. Chemical Geology, 2014, 372, 80-91.	3.3	96
7	A parameterized model for REE distribution between low-Ca pyroxene and basaltic melts with applications to REE partitioning in low-Ca pyroxene along a mantle adiabat and during pyroxenite-derived melt and peridotite interaction. Contributions To Mineralogy and Petrology, 2012, 164, 261-280.	3.1	93
8	The importance of crystal chemistry on REE partitioning between mantle minerals (garnet,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	3.3	85
9	Delivery of carbon, nitrogen, and sulfur to the silicate Earth by a giant impact. Science Advances, 2019, 5, eaau3669.	10.3	74
10	Slabâ€“mantle interaction, carbon transport, and kimberlite generation in the deep upper mantle. Earth and Planetary Science Letters, 2019, 506, 38-52.	4.4	61
11	A REE-in-garnetâ€“clinopyroxene thermobarometer for eclogites, granulites and garnet peridotites. Chemical Geology, 2015, 393-394, 79-92.	3.3	60
12	A REE-in-plagioclaseâ€“clinopyroxene thermometer for crustal rocks. Contributions To Mineralogy and Petrology, 2017, 172, 1.	3.1	60
13	Distribution of REE and HFSE between low-Ca pyroxene and lunar picritic melts around multiple saturation points. Geochimica Et Cosmochimica Acta, 2013, 119, 340-358.	3.9	51
14	Parameterized lattice strain models for REE partitioning between amphibole and silicate melt. American Mineralogist, 2017, 102, 2254-2267.	1.9	50
15	An experimental study of trace element partitioning between augite and Fe-rich basalts. Geochimica Et Cosmochimica Acta, 2014, 132, 170-186.	3.9	47
16	Formation of fast-spreading lower oceanic crust as revealed by a new Mgâ€“REE coupled geospeedometer. Earth and Planetary Science Letters, 2018, 487, 165-178.	4.4	35
17	Thermobarometry of CO2-rich, silica-undersaturated melts constrains cratonic lithosphere thinning through time in areas of kimberlitic magmatism. Earth and Planetary Science Letters, 2020, 550, 116549.	4.4	25
18	Dating layered websterite formation in the lithospheric mantle. Earth and Planetary Science Letters, 2016, 454, 103-112.	4.4	12

#	Article	IF	Citations
19	Volatile-bearing Partial Melts in the Lithospheric and Sub-Lithospheric Mantle on Earth and Other Rocky Planets. Reviews in Mineralogy and Geochemistry, 2022, 87, 575-606.	4.8	12
20	Petrogenesis and Geological Implications of the Tianheyong Cenozoic Basalts, Inner Mongolia China. Earth Science Frontiers, 2009, 16, 90-106.	0.6	8
21	Caveats and challenges in geospeedometry: A reply to Faak et al.'s critique of the Mgâ€“REE coupled geospeedometry. Earth and Planetary Science Letters, 2018, 502, 287-290.	4.4	4
22	Partitioning and Partition Coefficients. Encyclopedia of Earth Sciences Series, 2018, , 1-11.	0.1	3
23	Partitioning and Partition Coefficients. Encyclopedia of Earth Sciences Series, 2018, , 1186-1197.	0.1	3
24	Onuma Diagrams. Encyclopedia of Earth Sciences Series, 2018, , 1-2.	0.1	0