

Anja Rosenthal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9054139/publications.pdf>

Version: 2024-02-01

18
papers

1,693
citations

567281

15
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1616
citing authors

#	ARTICLE	IF	CITATIONS
1	Water and its influence on the lithosphere–asthenosphere boundary. <i>Nature</i> , 2010, 467, 448-451.	27.8	293
2	The composition of near-solidus melts of peridotite in the presence of CO ₂ and H ₂ O between 40 and 60 kbar. <i>Lithos</i> , 2009, 112, 274-283.	1.4	279
3	Petrogenesis of strongly alkaline primitive volcanic rocks at the propagating tip of the western branch of the East African Rift. <i>Earth and Planetary Science Letters</i> , 2009, 284, 236-248.	4.4	168
4	Phase Relations and Melting of Anhydrous K-bearing Eclogite from 1200 to 1600 °C and 3 to 5 GPa. <i>Journal of Petrology</i> , 2007, 49, 771-795.	2.8	159
5	Experimental determination of C, F, and H partitioning between mantle minerals and carbonated basalt, CO ₂ /Ba and CO ₂ /Nb systematics of partial melting, and the CO ₂ contents of basaltic source regions. <i>Earth and Planetary Science Letters</i> , 2015, 412, 77-87.	4.4	152
6	Experimental Study of the Influence of Water on Melting and Phase Assemblages in the Upper Mantle. <i>Journal of Petrology</i> , 2014, 55, 2067-2096.	2.8	135
7	An Experimental Study of Carbonated Eclogite at 3–5 GPa—Implications for Silicate and Carbonate Metasomatism in the Cratonic Mantle. <i>Journal of Petrology</i> , 2012, 53, 727-759.	2.8	131
8	An Experimental Study of Water in Nominally Anhydrous Minerals in the Upper Mantle near the Water-saturated Solidus. <i>Journal of Petrology</i> , 2012, 53, 2067-2093.	2.8	84
9	Continuous eclogite melting and variable refertilisation in upwelling heterogeneous mantle. <i>Scientific Reports</i> , 2014, 4, 6099.	3.3	61
10	Redox preconditioning deep cratonic lithosphere for kimberlite genesis – evidence from the central Slave Craton. <i>Scientific Reports</i> , 2017, 7, 30.	3.3	59
11	The discovery of kimberlites in Antarctica extends the vast Gondwanan Cretaceous province. <i>Nature Communications</i> , 2013, 4, 2921.	12.8	36
12	Quantitative electron backscatter diffraction (EBSD) data analyses using the dictionary indexing (DI) approach: Overcoming indexing difficulties on geological materials. <i>American Mineralogist</i> , 2017, 102, 1843-1855.	1.9	30
13	The behaviour of ferric iron during partial melting of peridotite. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 235-254.	3.9	29
14	Experimental investigation of the composition of incipient melts in upper mantle peridotites in the presence of CO ₂ and H ₂ O. <i>Lithos</i> , 2021, 396-397, 106224.	1.4	24
15	Comment on “The beginnings of hydrous mantle wedge melting”, CB Till, TL Grove, AC Withers, <i>Contributions to Mineralogy and Petrology</i> , DOI 10.1007/s00410-011-0692-6. <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 1077-1081.	3.1	13
16	High-pressure, high-temperature deformation of dunite, eclogite, clinopyroxenite and garnetite using in situ X-ray diffraction. <i>Earth and Planetary Science Letters</i> , 2017, 473, 291-302.	4.4	10
17	Phase relations and melting of nominally dry residual eclogites with variable CaO/Na ₂ O from 3 to 5 GPa and 1250 to 1500 °C; implications for refertilisation of upwelling heterogeneous mantle. <i>Lithos</i> , 2018, 314-315, 506-519.	1.4	8
18	An internally consistent pressure calibration of geobarometers applicable to the Earth’s upper mantle using in situ XRD. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 421-435.	3.9	7