Eglantine Boulard

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8553179/publications.pdf

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25	723	567144 15	552653 26
papers	citations	h-index	g-index

26	26	26	954
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New host for carbon in the deep Earth. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5184-5187.	3.3	118
2	Feâ€“FeO and Feâ€“Fe3C melting relations at Earth's coreâ€“mantle boundary conditions: Implications for a volatile-rich or oxygen-rich core. Earth and Planetary Science Letters, 2017, 473, 94-103.	1.8	77
3	Experimental investigation of the stability of Feâ€rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117, .	3.3	68
4	Tomography and imaging at the PSICHE beam line of the SOLEIL synchrotron. Review of Scientific Instruments, 2016, 87, 093704.	0.6	59
5	Tetrahedrally coordinated carbonates in Earthâ€™s lower mantle. Nature Communications, 2015, 6, 6311.	5.8	55
6	The influence on Fe content on Raman spectra and unit cell parameters of magnesiteâ€“siderite solid solutions. Physics and Chemistry of Minerals, 2012, 39, 239-246.	0.3	39
7	Structure and Density of Feâ€C Liquid Alloys Under High Pressure. Journal of Geophysical Research: Solid Earth, 2017, 122, 7813-7823.	1.4	28
8	Density measurements and structural properties of liquid and amorphous metals under high pressure. High Pressure Research, 2014, 34, 9-21.	0.4	26
9	Pressureâ€induced phase transition in MnCO₃ and its implications on the deep carbon cycle. Journal of Geophysical Research: Solid Earth, 2015, 120, 4069-4079.	1.4	23
10	Velocityâ€Density Systematics of Feâ€5wt%Si: Constraints on Si Content in the Earth's Inner Core. Journal of Geophysical Research: Solid Earth, 2019, 124, 3436-3447.	1.4	23
11	Ferrous Iron Under Oxygenâ€Rich Conditions in the Deep Mantle. Geophysical Research Letters, 2019, 46, 1348-1356.	1.5	22
12	Following the phase transitions of iron in 3D with X-ray tomography and diffraction under extreme conditions. Acta Materialia, 2020, 192, 30-39.	3.8	21
13	Bonding and electronic changes in rhodochrosite at high pressure. American Mineralogist, 2013, 98, 1817-1823.	0.9	20
14	Thermal Conductivity of FeS and Its Implications for Mercury's Longâ€Sustaining Magnetic Field. Journal of Geophysical Research E: Planets, 2019, 124, 2359-2368.	1.5	20
15	High-speed tomography under extreme conditions at the PSICHE beamline of the SOLEIL Synchrotron. Journal of Synchrotron Radiation, 2018, 25, 818-825.	1.0	16
16	CO2-induced destabilization of pyrite-structured FeO2Hx in the lower mantle. National Science Review, 2018, 5, 870-877.	4.6	15
17	Structure and elasticity of cubic Fe-Si alloys at high pressures. Physical Review B, 2019, 100, .	1.1	15
18	Recent Tomographic Imaging Developments at the PSICHE Beamline. Integrating Materials and Manufacturing Innovation, 2019, 8, 551-558.	1.2	15

#	Article	IF	Citations
19	Melting properties by X-ray absorption spectroscopy: common signatures in binary Feâ€“C, Feâ€“O, Feâ€“S and Feâ€“Si systems. Scientific Reports, 2020, 10, 11663.	1.6	13
20	Nanoprobes for Deep Carbon. Reviews in Mineralogy and Geochemistry, 2013, 75, 423-448.	2.2	10
21	Synchrotron x-ray computed microtomography for high pressure science. Journal of Applied Physics, 2020, 127, .	1.1	9
22	Axial Compressibility and Thermal Equation of State of Hcp Feâ€“5wt% Niâ€“5wt% Si. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10	0.8	8
23	Thermal expansion of liquid Fe-S alloy at high pressure. Earth and Planetary Science Letters, 2021, 563, 116884.	1.8	8
24	Transformations and Decomposition of MnCO3 at Earth's Lower Mantle Conditions. Frontiers in Earth Science, 2016, 4, .	0.8	7
25	Quantitative 4D X-ray microtomography under extreme conditions: a case study on magma migration. Journal of Synchrotron Radiation, 2021, 28, 1598-1609.	1.0	5