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List of Publications by Year
in descending order

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33 papers	1,245 citations	448610 19 h-index	488211 31 g-index
34 all docs	34 docs citations	34 times ranked	1477 citing authors

#	Article	IF	Citations
1	Hydrous silicate melts and the deep mantle H2O cycle. Earth and Planetary Science Letters, 2022, 581, 117408.	1.8	9
2	Clean-limit superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>I</mml:mi><mml:mi>m</mml:mi><mml:mover accent="true"><mml:mn>3</mml:mn><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>m</mml:mi></mml:mrow><mml:mo>Â</mml:mo></mml:m mathvariant="normal">H</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi></mml:mrow></mml:math> synthesized from sulfur and hydrogen donor ammonia borane. Physical Review B, 2022, 105, .	1.1	16
3	Internal resistive heating of non-metallic samples to 3000ÂK and >60ÂGPa in the diamond anvil cell. Review of Scientific Instruments, 2021, 92, 063904.	0.6	5
4	Thermal stress reduces carbonate production of benthic foraminifera and changes the material properties of their shells. ICES Journal of Marine Science, 2021, 78, 3202-3211.	1.2	2
5	Structural Ordering in Liquid Gallium under Extreme Conditions. Physical Review Letters, 2020, 124, 145501.	2.9	15
6	Ontogenetic disparity in early planktic foraminifers. Journal of Micropalaeontology, 2020, 39, 27-39.	1.3	8
7	The fate of carbonate in oceanic crust subducted into earth's lower mantle. Earth and Planetary Science Letters, 2019, 511, 213-222.	1.8	28
8	The speciation, distribution, transport, and impact of volatile elements in the Earth's interior. Chemical Geology, 2018, 478, 1.	1.4	0
9	MIRRORS: A MATLABÂ® GUI for temperature measurement by multispectral imaging radiometry. Review of Scientific Instruments, 2018, 89, 104903.	0.6	3
10	10.1063/1.5041360.1. , 2018, , .		0
11	High-pressure melting behavior of tin up to 105 GPa. Physical Review B, 2017, 95, .	1.1	32
12	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
13	Experimental constraints on melting temperatures in the MgOâ€“SiO2 system at lower mantle pressures. Earth and Planetary Science Letters, 2017, 472, 186-196.	1.8	22
14	On the damage and fracture of nuclear graphite at multiple length-scales. Journal of Nuclear Materials, 2017, 493, 246-254.	1.3	24
15	Structure and Density of Feâ€C Liquid Alloys Under High Pressure. Journal of Geophysical Research: Solid Earth, 2017, 122, 7813-7823.	1.4	28
16	The phase diagram of NiSi under the conditions of small planetary interiors. Physics of the Earth and Planetary Interiors, 2016, 261, 196-206.	0.7	8
17	The stability of hydrous silicates in Earth's lower mantle: Experimental constraints from the systems MgOâ€“SiO2â€“H2O and MgOâ€“Al2O3â€“SiO2â€–H2O. Chemical Geology, 2015, 418, 16-29.	1.4	77
18	The equation of state of thePmmnphase of NiSi. Journal of Applied Crystallography, 2015, 48, 1914-1920.	1.9	2

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19	The melting curve of Ni to 1 Mbar. Earth and Planetary Science Letters, 2014, 408, 226-236.	1.8	55
20	Experimental determination of melting in the systems enstatite-magnesite and magnesite-calcite from 15 to 80 GPa. American Mineralogist, 2014, 99, 1544-1554.	0.9	23
21	The NiSi melting curve to 70GPa. Physics of the Earth and Planetary Interiors, 2014, 233, 13-23.	0.7	36
22	The role of beam dispersion in Raman and photo-stimulated luminescence piezo-spectroscopy of yttria-stabilized zirconia in multi-layered coatings. Acta Materialia, 2013, 61, 12-21.	3.8	25
23	Perovskite Phase Relations in the System CaO-MgO-TiO2-SiO2 and Implications for Deep Mantle Lithologies. Journal of Petrology, 2012, 53, 611-635.	1.1	28
24	Calibration of Raman Spectroscopy in the Stress Measurement of Air-Plasma-Sprayed Yttria-Stabilized Zirconia. Applied Spectroscopy, 2012, 66, 1204-1209.	1.2	24
25	High-pressure phase transitions and equations of state in NiSi. II. Experimental results. Journal of Applied Crystallography, 2012, 45, 726-737.	1.9	10
26	Phase transition and metallization of FeO at high pressures and temperatures. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	42
27	Equation of state and phase diagram of FeO. Earth and Planetary Science Letters, 2011, 304, 496-502.	1.8	111
28	The FeSi phase diagram to 150 GPa. Journal of Geophysical Research, 2010, 115, .	3.3	41
29	Thermal diffusivity of MORB-composition rocks to 15ÂGPa: implications for triggering of deep seismicity. High Pressure Research, 2010, 30, 406-414.	0.4	14
30	Melting in the Feâ€“C system to 70ÂGPa. Earth and Planetary Science Letters, 2009, 284, 157-167.	1.8	216
31	X-ray absorption contrast images of binary chemical reactions. Chemical Geology, 2009, 260, 211-220.	1.4	6
32	Primary carbonatite melt from deeply subducted oceanic crust. Nature, 2008, 454, 622-625.	13.7	225
33	Subsolidus phase relations and perovskite compressibility in the system MgOâ€“AlO1.5â€“SiO2 with implications for Earth's lower mantle. Earth and Planetary Science Letters, 2006, 248, 77-89.	1.8	33