

Simone Anzellini

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,413
citations

471509

17
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

1650
citing authors

#	ARTICLE	IF	CITATIONS
1	Melting of Iron at Earth's Inner Core Boundary Based on Fast X-ray Diffraction. <i>Science</i> , 2013, 340, 464-466.	12.6	486
2	Pressure promoted low-temperature melting of metal-organic frameworks. <i>Nature Materials</i> , 2019, 18, 370-376.	27.5	134
3	Equation of state of rhenium and application for ultra high pressure calibration. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	74
4	Rich Polymorphism of a Metal-Organic Framework in Pressure-Temperature Space. <i>Journal of the American Chemical Society</i> , 2019, 141, 9330-9337.	13.7	68
5	In situ observation of nanolite growth in volcanic melt: A driving force for explosive eruptions. <i>Science Advances</i> , 2020, 6, .	10.3	67
6	Solving Controversies on the Iron Phase Diagram Under High Pressure. <i>Geophysical Research Letters</i> , 2018, 45, 11,074.	4.0	65
7	In situ characterization of the high pressure high temperature melting curve of platinum. <i>Scientific Reports</i> , 2019, 9, 13034.	3.3	65
8	Mechanism of the transformation in iron. <i>Physical Review B</i> , 2015, 91, .	3.2	50
9	A Practical Review of the Laser-Heated Diamond Anvil Cell for University Laboratories and Synchrotron Applications. <i>Crystals</i> , 2020, 10, 459.	2.2	46
10	P-T Equation of State of Iridium Up to 80 GPa and 3100 K. <i>Crystals</i> , 2021, 11, 452.	2.2	40
11	The Melting Curve of Nickel Up to 100 GPa Explored by XAS. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9921-9930.	3.4	35
12	The fate of carbonate in oceanic crust subducted into earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2019, 511, 213-222.	4.4	28
13	Simultaneous 8.2 keV phase-contrast imaging and 24.6 keV X-ray diffraction from shock-compressed matter at the LCLS. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	24
14	Study of the iron nitride FeN into the megabar regime. <i>Journal of Alloys and Compounds</i> , 2018, 733, 53-58.	5.5	22
15	Laser-heating system for high-pressure X-ray diffraction at the Extreme Conditions beamline I15 at Diamond Light Source. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1860-1868.	2.4	21
16	Characterization of the high-pressure and high-temperature phase diagram and equation of state of chromium. <i>Scientific Reports</i> , 2022, 12, 6727.	3.3	21
17	Phase diagram of calcium at high pressure and high temperature. <i>Physical Review Materials</i> , 2018, 2, .	2.4	20
18	Structure and magnetism of cobalt at high pressure and low temperature. <i>Physical Review B</i> , 2016, 94, .	3.2	18

#	ARTICLE	IF	CITATIONS
19	Phase transitions and equation of state of zirconium under high pressure. Physical Review B, 2020, 102, .	3.2	16
20	Quasi-hydrostatic equation of state of silicon up to 1 megabar at ambient temperature. Scientific Reports, 2019, 9, 15537.	3.3	14
21	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.	3.3	13
22	Pressure-induced chemical decomposition of copper orthovanadate ($\text{Fe}_3\text{V}_2\text{O}_8$). Journal of Materials Chemistry C, 2021, 9, 13402-13409.	5.5	12
23	The HXD95: a modified Bassett-type hydrothermal diamond-anvil cell for <i>in situ</i> XRD experiments up to 5 GPa and 1300 K. Journal of Synchrotron Radiation, 2020, 27, 529-537.	2.4	12
24	High-Pressure Structural Behavior and Equation of State of Kagome Staircase Compound, Ni ₃ V ₂ O ₈ . Crystals, 2020, 10, 910.	2.2	11
25	Thermal equation of state of ruthenium characterized by resistively heated diamond anvil cell. Scientific Reports, 2019, 9, 14459.	3.3	8
26	Compression of liquid Ni and Co under extreme conditions explored by x-ray absorption spectroscopy. Physical Review B, 2019, 100, .	3.2	8
27	The Effect of Hydrostatic Pressure on the Superconducting and Structural Properties of Nb ₃ Sn: Ab-initio Modeling and SR-XRD Investigation. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	7
28	Static compression of Fe ₄ N to 77 GPa and its implications for nitrogen storage in the deep Earth. American Mineralogist, 2019, 104, 1781-1787.	1.9	6
29	Effect of salinity, pressure and temperature on the solubility of smithsonite (ZnCO ₃) and Zn complexation in crustal and upper mantle hydrothermal fluids. Chemical Geology, 2021, 578, 120320.	3.3	6
30	Structure and magnetism in compressed ironâ€“cobalt alloys. High Pressure Research, 2011, 31, 148-152.	1.2	5
31	Anomalous Behavior in the Atomic Structure of Nb ₃ Sn under High Pressure. Crystals, 2021, 11, 331.	2.2	3
32	Melting line of calcium characterized by in situ LH-DAC XRD and first-principles calculations. Scientific Reports, 2021, 11, 15025.	3.3	2
33	Hot black ices. Nature Physics, 2021, 17, 1195-1196.	16.7	1
34	Properties of Transition Metals and Their Compounds at Extreme Conditions. Crystals, 2021, 11, 1185.	2.2	0