

# Simone Anzellini

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,413  
citations

535685

17  
h-index

425179

34  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the high-pressure and high-temperature phase diagram and equation of state of chromium. <i>Scientific Reports</i> , 2022, 12, 6727.	1.6	21
2	Pressure-induced chemical decomposition of copper orthovanadate ( $\text{Cu}_3\text{V}_2\text{O}_8$ ). <i>Journal of Materials Chemistry C</i> , 2021, 9, 13402-13409.	2.7	12
3	Anomalous Behavior in the Atomic Structure of $\text{Nb}_3\text{Sn}$ under High Pressure. <i>Crystals</i> , 2021, 11, 331.	1.0	3
4	$P$ - $V$ - $T$ Equation of State of Iridium Up to 80 GPa and 3100 K. <i>Crystals</i> , 2021, 11, 452.	1.0	40
5	Melting line of calcium characterized by in situ LH-DAC XRD and first-principles calculations. <i>Scientific Reports</i> , 2021, 11, 15025.	1.6	2
6	Properties of Transition Metals and Their Compounds at Extreme Conditions. <i>Crystals</i> , 2021, 11, 1185.	1.0	0
7	Effect of salinity, pressure and temperature on the solubility of smithsonite ( $\text{ZnCO}_3$ ) and Zn complexation in crustal and upper mantle hydrothermal fluids. <i>Chemical Geology</i> , 2021, 578, 120320.	1.4	6
8	Hot black ices. <i>Nature Physics</i> , 2021, 17, 1195-1196.	6.5	1
9	In situ observation of nanolite growth in volcanic melt: A driving force for explosive eruptions. <i>Science Advances</i> , 2020, 6, .	4.7	67
10	Melting properties by X-ray absorption spectroscopy: common signatures in binary $\text{Fe-C}$ , $\text{Fe-O}$ , $\text{Fe-S}$ and $\text{Fe-Si}$ systems. <i>Scientific Reports</i> , 2020, 10, 11663.	1.6	13
11	Phase transitions and equation of state of zirconium under high pressure. <i>Physical Review B</i> , 2020, 102, .	1.1	16
12	High-Pressure Structural Behavior and Equation of State of Kagome Staircase Compound, $\text{Ni}_3\text{V}_2\text{O}_8$ . <i>Crystals</i> , 2020, 10, 910.	1.0	11
13	A Practical Review of the Laser-Heated Diamond Anvil Cell for University Laboratories and Synchrotron Applications. <i>Crystals</i> , 2020, 10, 459.	1.0	46
14	The HXD95: a modified Bassett-type hydrothermal diamond-anvil cell for <i>in situ</i> XRD experiments up to 5 GPa and 1300 K. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 529-537.	1.0	12
15	Thermal equation of state of ruthenium characterized by resistively heated diamond anvil cell. <i>Scientific Reports</i> , 2019, 9, 14459.	1.6	8
16	Compression of liquid Ni and Co under extreme conditions explored by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2019, 100, .	1.1	8
17	In situ characterization of the high pressure high temperature melting curve of platinum. <i>Scientific Reports</i> , 2019, 9, 13034.	1.6	65
18	Rich Polymorphism of a Metal-Organic Framework in Pressure-Temperature Space. <i>Journal of the American Chemical Society</i> , 2019, 141, 9330-9337.	6.6	68

#	ARTICLE	IF	CITATIONS
19	Pressure promoted low-temperature melting of metal-organic frameworks. <i>Nature Materials</i> , 2019, 18, 370-376.	13.3	134
20	The fate of carbonate in oceanic crust subducted into earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2019, 511, 213-222.	1.8	28
21	Quasi-hydrostatic equation of state of silicon up to 1 megabar at ambient temperature. <i>Scientific Reports</i> , 2019, 9, 15537.	1.6	14
22	Static compression of Fe <sub>4</sub> N to 77 GPa and its implications for nitrogen storage in the deep Earth. <i>American Mineralogist</i> , 2019, 104, 1781-1787.	0.9	6
23	Study of the iron nitride FeN into the megabar regime. <i>Journal of Alloys and Compounds</i> , 2018, 733, 53-58.	2.8	22
24	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.	1.0	21
25	Solving Controversies on the Iron Phase Diagram Under High Pressure. <i>Geophysical Research Letters</i> , 2018, 45, 11,074.	1.5	65
26	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, .	1.5	24
27	Phase diagram of calcium at high pressure and high temperature. <i>Physical Review Materials</i> , 2018, 2, .	0.9	20
28	The Effect of Hydrostatic Pressure on the Superconducting and Structural Properties of Nb <sub>3</sub> Sn: Ab-initio Modeling and SR-XRD Investigation. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	7
29	The Melting Curve of Nickel Up to 100 GPa Explored by XAS. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9921-9930.	1.4	35
30	Structure and magnetism of cobalt at high pressure and low temperature. <i>Physical Review B</i> , 2016, 94, .	1.1	18
31	Mechanism of the $\alpha$ - $\beta$ transformation in iron. <i>Physical Review B</i> , 2015, 91, .	1.1	50
32	Equation of state of rhenium and application for ultra high pressure calibration. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	74
33	Melting of Iron at Earth's Inner Core Boundary Based on Fast X-ray Diffraction. <i>Science</i> , 2013, 340, 464-466.	6.0	486
34	Structure and magnetism in compressed iron-cobalt alloys. <i>High Pressure Research</i> , 2011, 31, 148-152.	0.4	5