Rostislav Hrubiak

List of Publications by Year
in descending order

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22	543	858243	721071
papers	citations	12	23
		h-index	g-index

24	24	24	1009
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Entropy Borides under Extreme Environment of Pressures and Temperatures. Materials, 2022, 15, 3239.	1.3	7
2	Coexistence of vitreous and crystalline phases of H ₂ O at ambient temperature. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	3
3	High-pressure high-temperature synthesis and thermal equation of state of high-entropy transition metal boride. AIP Advances, 2021, 11, .	0.6	11
4	Experimental melting curve of zirconium metal to 37 GPa. Journal of Physics Condensed Matter, 2020, 32, 355402.	0.7	10
5	Multimode scanning X-ray diffraction microscopy for diamond anvil cell experiments. Review of Scientific Instruments, 2019, 90, 025109.	0.6	19
6	Real time study of grain enlargement in zirconium under room-temperature compression across the Î± to Ï‰ phase transition. Scientific Reports, 2019, 9, 15712.	1.6	4
7	Thermochemical reactions of Al-based intermetallic composites to AlN. Combustion and Flame, 2019, 200, 115-124.	2.8	7
8	Surprising Stability of Cubane under Extreme Pressure. Journal of Physical Chemistry Letters, 2018, 9, 2031-2037.	2.1	12
9	A CO2 laser heating system for in situ high pressure-temperature experiments at HPCAT. Review of Scientific Instruments, 2018, 89, 083901.	0.6	18
10	Semiconducting cubic titanium nitride in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Th</mml:mi><mml:mn>3</mml:mn></mml:m mathvariant="normal">P</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>structure. Physical Review Materials, 2018, 2, .	0.9	24
11	Microstructures define melting of molybdenum at high pressures. Nature Communications, 2017, 8, 14562.	5.8	55
12	Pressure-induced structural transition in chalcopyrite ZnSiP2. Applied Physics Letters, 2017, 110, 182106.	1.5	17
13	Laser-assisted processing of Ni-Al-Co-Ti under high pressure. Materials and Manufacturing Processes, 2017, 32, 1606-1611.	2.7	3
14	Origins of ultralow velocity zones through slab-derived metallic melt. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5547-5551.	3.3	55
15	Highâ€pressure, highâ€temperature equations of state using nanofabricated controlledâ€geometry Ni/SiO₂/Ni double hotâ€plate samples. Geophysical Research Letters, 2015, 42, 10,239.	1.5	11
16	The laser micro-machining system for diamond anvil cell experiments and general precision machining applications at the High Pressure Collaborative Access Team. Review of Scientific Instruments, 2015, 86, 072202.	0.6	80
17	New developments in laser-heated diamond anvil cell with in situ synchrotron x-ray diffraction at High Pressure Collaborative Access Team. Review of Scientific Instruments, 2015, 86, 072201.	0.6	90
18	Mapping the nebular condensates and the chemical composition of the terrestrial planets. Earth and Planetary Science Letters, 2014, 393, 113-119.	1.8	9

#	Article	IF	Citations
19	High P-T phase transitions and P-V-T equation of state of hafnium. Journal of Applied Physics, 2012, 111, .	1.1	22
20	The structural and optical properties of ZnO bulk and nanocrystals under high pressure. High Pressure Research, 2012, 32, 354-363.	0.4	23
21	The thermodynamics of several elements at high pressure. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2011, 35, 72-81.	0.7	36
22	Principal component analysis on properties of binary and ternary hydrides and a comparison of metal versus metal hydride properties. Journal of Alloys and Compounds, 2009, 478, 731-735.	2.8	24