

Bastian Holst

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,638
citations

471509

17
h-index

713466

21
g-index

24
all docs

24
docs citations

24
times ranked

1117
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolving Ultrafast Heating of Dense Cryogenic Hydrogen. Physical Review Letters, 2014, 112, 105002.	7.8	95
2	Ultrafast Short-Range Disordering of Femtosecond-Laser-Heated Warm Dense Aluminum. Physical Review Letters, 2013, 111, 245004.	7.8	41
3	Evolution of ac Conductivity in Nonequilibrium Warm Dense Gold. Physical Review Letters, 2013, 110, 135001.	7.8	84
4	Isentropic compression of hydrogen: Probing conditions deep in planetary interiors. Physical Review B, 2013, 88, .	3.2	27
5	JUPITER MODELS WITH IMPROVED AB INITIO HYDROGEN EQUATION OF STATE (H-REOS.2). Astrophysical Journal, 2012, 750, 52.	4.5	165
6	Metallization in hydrogen-helium mixtures. Physical Review B, 2011, 84, .	3.2	78
7	Electronic transport coefficients from ab initio simulations and application to dense liquid hydrogen. Physical Review B, 2011, 83, .	3.2	148
8	Two-color Thomson scattering at FLASH. High Energy Density Physics, 2011, 7, 145-149.	1.5	14
9	First-order liquid-liquid phase transition in dense hydrogen. Physical Review B, 2010, 82, .	3.2	121
10	Static ion structure factor for dense plasmas: Semi-classical and ab initio calculations. High Energy Density Physics, 2010, 6, 305-310.	1.5	8
11	Metal-Insulator Transition in Dense Hydrogen. Springer Series in Materials Science, 2010, , 63-84.	0.6	3
12	Thomson scattering in dense plasmas with density and temperature gradients. High Energy Density Physics, 2009, 5, 208-211.	1.5	17
13	Measurements of Ionic Structure in Shock Compressed Lithium Hydride from Ultrafast X-Ray Thomson Scattering. Physical Review Letters, 2009, 103, 245004.	7.8	51
14	Demixing of Hydrogen and Helium at Megabar Pressures. Physical Review Letters, 2009, 102, 115701.	7.8	121
15	INTERIOR OF SOLAR AND EXTRASOLAR GIANT PLANETS. , 2009, , .		1
16	Giant planets as laboratory for high energy density physics. , 2008, , .		2
17	Thermophysical properties of warm dense hydrogen using quantum molecular dynamics simulations. Physical Review B, 2008, 77, .	3.2	204
18	Ab Initio Equation of State Data for Hydrogen, Helium, and Water and the Internal Structure of Jupiter. Astrophysical Journal, 2008, 683, 1217-1228.	4.5	222

#	ARTICLE	IF	CITATIONS
19	NONMETAL-TO-METAL TRANSITION IN WARM DENSE HYDROGEN AND HELIUM. , 2008, , .		0
20	Quantum Molecular Dynamics Simulations for the Nonmetal-to-Metal Transition in Fluid Helium. Physical Review Letters, 2007, 98, 190602.	7.8	63
21	Measurement of carbon ionization balance in high-temperature plasma mixtures by temporally resolved X-ray scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 225-237.	2.3	56
22	Warm Dense Hydrogen in the Chemical Picture. AIP Conference Proceedings, 2006, , .	0.4	2
23	Electrical Conductivity of Noble Gases at High Pressures. Contributions To Plasma Physics, 2005, 45, 61-69.	1.1	39
24	COMPTRA04 - a Program Package to Calculate Composition and Transport Coefficients in Dense Plasmas. Contributions To Plasma Physics, 2005, 45, 73-88.	1.1	76