

Richard Briggs

List of Publications by Year in descending order

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15
papers

452
citations

759055

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996849

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15
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docs citations

15
times ranked

569
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Body-Centered Cubic Gold and Melting under Shock Compression. <i>Physical Review Letters</i> , 2019, 123, 045701.	2.9	67
2	Direct Observation of Melting in Shock-Compressed Bismuth With Femtosecond X-ray Diffraction. <i>Physical Review Letters</i> , 2015, 115, 095701.	2.9	64
3	X-Ray Diffraction of Solid Tin to 1.2 $\hat{\text{A}}$ TPa. <i>Physical Review Letters</i> , 2015, 115, 075502.	2.9	52
4	Ultrafast X-Ray Diffraction Studies of the Phase Transitions and Equation of State of Scandium Shock Compressed to 82 $\hat{\text{A}}$ GPa. <i>Physical Review Letters</i> , 2017, 118, 025501.	2.9	50
5	Identification of Phase Transitions and Metastability in Dynamically Compressed Antimony Using Ultrafast X-Ray Diffraction. <i>Physical Review Letters</i> , 2019, 122, 255704.	2.9	36
6	The Melting Curve of Nickel Up to 100 $\hat{\text{A}}$ GPa Explored by XAS. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9921-9930.	1.4	35
7	Femtosecond diffraction studies of solid and liquid phase changes in shock-compressed bismuth. <i>Scientific Reports</i> , 2018, 8, 16927.	1.6	33
8	One-dimensional chain melting in incommensurate potassium. <i>Physical Review B</i> , 2015, 91, .	1.1	25
9	Ferrous Iron Under Oxygen $\hat{\text{e}}$ Rich Conditions in the Deep Mantle. <i>Geophysical Research Letters</i> , 2019, 46, 1348-1356.	1.5	22
10	Coordination changes in liquid tin under shock compression determined using <i>in situ</i> femtosecond x-ray diffraction. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	22
11	Melting Curve and Phase Relations of Fe $\hat{\text{e}}$ Ni Alloys: Implications for the Earth's Core Composition. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088169.	1.5	21
12	Recovery of metastable dense Bi synthesized by shock compression. <i>Applied Physics Letters</i> , 2019, 114, 120601.	1.5	12
13	Quantitative measurements of density in shock-compressed silver up to 330 GPa using x-ray diffraction. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	6
14	Quantitative analysis of diffraction by liquids using a pink-spectrum X-ray source. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 1033-1042.	1.0	4
15	Development of slurry targets for high repetition-rate x-ray free electron laser experiments. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	3