

Damian C Swift

List of Publications by Year in descending order

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35
papers

637
citations

687363

13
h-index

580821

25
g-index

35
all docs

35
docs citations

35
times ranked

784
citing authors

#	ARTICLE	IF	CITATIONS
1	Equation of state of iron under core conditions of large rocky exoplanets. <i>Nature Astronomy</i> , 2018, 2, 452-458.	10.1	71
2	A measurement of the equation of state of carbon envelopes of white dwarfs. <i>Nature</i> , 2020, 584, 51-54.	27.8	70
3	Laser-launched flyer plates for shock physics experiments. <i>Review of Scientific Instruments</i> , 2005, 76, 093907.	1.3	61
4	Quasi-isentropic compression by ablative laser loading: Response of materials to dynamic loading on nanosecond time scales. <i>Physical Review E</i> , 2005, 71, 066401.	2.1	49
5	Shock pressures induced in condensed matter by laser ablation. <i>Physical Review E</i> , 2004, 69, 036406.	2.1	47
6	Shock formation and the ideal shape of ramp compression waves. <i>Physical Review E</i> , 2008, 78, 066115.	2.1	39
7	Measuring the melting curve of iron at super-Earth core conditions. <i>Science</i> , 2022, 375, 202-205.	12.6	39
8	Understanding the effects of radiative preheat and self-emission from shock heating on equation of state measurement at 100s of Mbar using spherically converging shock waves in a NIF hohlraum. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	3.9	29
9	Equation of state of boron nitride combining computation, modeling, and experiment. <i>Physical Review B</i> , 2019, 99, .	3.2	28
10	Absolute Hugoniot measurements from a spherically convergent shock using x-ray radiography. <i>Review of Scientific Instruments</i> , 2018, 89, 053505.	1.3	24
11	Theoretical and experimental investigation of the equation of state of boron plasmas. <i>Physical Review E</i> , 2018, 98, 023205.	2.1	23
12	Explanation of anomalous shock temperatures in shock-loaded Mo samples measured using neutron resonance spectroscopy. <i>Physical Review B</i> , 2008, 77, .	3.2	20
13	Properties of plastic ablators in laser-driven material dynamics experiments. <i>Physical Review E</i> , 2008, 77, 066402.	2.1	16
14	Microstructure morphology of shock-induced melt and rapid resolidification in bismuth. <i>Journal of Applied Physics</i> , 2007, 101, 084906.	2.5	13
15	Thermodynamically complete equations of state for nickel-titanium alloy. <i>Journal of Applied Physics</i> , 2005, 98, 093512.	2.5	12
16	Atom-in-jellium equations of state in the high-energy-density regime. <i>Physical Review E</i> , 2019, 99, 063210.	2.1	12
17	On high explosive launching of projectiles for shock physics experiments. <i>Review of Scientific Instruments</i> , 2007, 78, 063904.	1.3	11
18	Numerical solution of shock and ramp compression for general material properties. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	11

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19	Treatment of compounds and alloys in radiation hydrodynamics simulations of ablative laser loading. <i>Physical Review E</i> , 2004, 69, 056401.	2.1	10
20	Equation of state of solid nickel aluminide. <i>Physical Review B</i> , 2007, 76, .	3.2	8
21	Evidence for Dissociation and Ionization in Shock Compressed Nitrogen to 800ÅGPa. <i>Physical Review Letters</i> , 2022, 129, .	7.8	7
22	High-temperature ion-thermal behavior from average-atom calculations. <i>Physical Review E</i> , 2020, 101, 053201.	2.1	6
23	X-ray diffraction from shock-loaded polycrystals. <i>Review of Scientific Instruments</i> , 2008, 79, 013906.	1.3	5
24	High pressure melt curve of iron from atom-in-jellium calculations. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
25	Non-iterative characteristics analysis for high-pressure ramp loading. <i>Review of Scientific Instruments</i> , 2019, 90, 093903.	1.3	4
26	Equation of state and strength of diamond in high-pressure ramp loading. <i>Physical Review B</i> , 2022, 105, .	3.2	4
27	Time-Resolved X-Ray Diffraction Investigation of Superheating-Melting of Crystals under Ultrafast Heating. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	3
28	Shock Response of Iron on Nanosecond Time Scales. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	2
29	Comparison of ablaters for the polar direct drive exploding pusher platform. <i>High Energy Density Physics</i> , 2021, 38, 100928.	1.5	2
30	Simultaneous compression and opacity data from time-series radiography with a Lagrangian marker. <i>Review of Scientific Instruments</i> , 2021, 92, 063514.	1.3	2
31	Atom-in-jellium predictions of the shear modulus at high pressure. <i>Physical Review B</i> , 2022, 105, .	3.2	2
32	Predictions of the Microstructural Contribution to Instability Seeding in Beryllium ICF Capsules. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	1
33	Comment on "Requirements and sensitivity analysis for temporally- and spatially-resolved thermometry using neutron resonance spectroscopy" [Rev. Sci. Instrum. 90, 094901 (2019)]. <i>Review of Scientific Instruments</i> , 2021, 92, 037101.	1.3	1
34	Melting at the Limit of Superheating. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
35	Reply to "Comment on "Melting dynamics of superheated argon: Nucleation and growth" [J. Chem. Phys. 126, 034505 (2007)]. <i>Journal of Chemical Physics</i> , 2007, 126, 187102.	3.0	0