

# 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 and strength of diamond in high-pressure ramp loading. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Atom-in-jellium predictions of the shear modulus at high pressure. <i>Physical Review B</i> , 2022, 105, .	3.2	2
3	Measuring the melting curve of iron at super-Earth core conditions. <i>Science</i> , 2022, 375, 202-205.	12.6	39
4	Evidence for Dissociation and Ionization in Shock Compressed Nitrogen to 800 GPa. <i>Physical Review Letters</i> , 2022, 129, .	7.8	7
5	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
6	Comparison of ablators for the polar direct drive exploding pusher platform. <i>High Energy Density Physics</i> , 2021, 38, 100928.	1.5	2
7	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
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	A measurement of the equation of state of carbon envelopes of white dwarfs. <i>Nature</i> , 2020, 584, 51-54.	27.8	70
10	High-temperature ion-thermal behavior from average-atom calculations. <i>Physical Review E</i> , 2020, 101, 053201.	2.1	6
11	High pressure melt curve of iron from atom-in-jellium calculations. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
12	Atom-in-jellium equations of state in the high-energy-density regime. <i>Physical Review E</i> , 2019, 99, 063210.	2.1	12
13	Non-iterative characteristics analysis for high-pressure ramp loading. <i>Review of Scientific Instruments</i> , 2019, 90, 093903.	1.3	4
14	Equation of state of boron nitride combining computation, modeling, and experiment. <i>Physical Review B</i> , 2019, 99, .	3.2	28
15	Equation of state of iron under core conditions of large rocky exoplanets. <i>Nature Astronomy</i> , 2018, 2, 452-458.	10.1	71
16	Absolute Hugoniot measurements from a spherically convergent shock using x-ray radiography. <i>Review of Scientific Instruments</i> , 2018, 89, 053505.	1.3	24
17	Theoretical and experimental investigation of the equation of state of boron plasmas. <i>Physical Review E</i> , 2018, 98, 023205.	2.1	23
18	Properties of plastic ablators in laser-driven material dynamics experiments. <i>Physical Review E</i> , 2008, 77, 066402.	2.1	16

#	ARTICLE	IF	CITATIONS
19	X-ray diffraction from shock-loaded polycrystals. Review of Scientific Instruments, 2008, 79, 013906.	1.3	5
20	Numerical solution of shock and ramp compression for general material properties. Journal of Applied Physics, 2008, 104, .	2.5	11
21	Explanation of anomalous shock temperatures in shock-loaded Mo samples measured using neutron resonance spectroscopy. Physical Review B, 2008, 77, .	3.2	20
22	Shock formation and the ideal shape of ramp compression waves. Physical Review E, 2008, 78, 066115.	2.1	39
23	Reply to "Comment on "Melting dynamics of superheated argon: Nucleation and growth" [J. Chem. Phys. 126, 034505 (2007)]. Journal of Chemical Physics, 2007, 126, 187102.	3.0	0
24	Microstructure morphology of shock-induced melt and rapid resolidification in bismuth. Journal of Applied Physics, 2007, 101, 084906.	2.5	13
25	Equation of state of solid nickel aluminide. Physical Review B, 2007, 76, .	3.2	8
26	On high explosive launching of projectiles for shock physics experiments. Review of Scientific Instruments, 2007, 78, 063904.	1.3	11
27	Thermodynamically complete equations of state for nickel-titanium alloy. Journal of Applied Physics, 2005, 98, 093512.	2.5	12
28	Quasi-isentropic compression by ablative laser loading: Response of materials to dynamic loading on nanosecond time scales. Physical Review E, 2005, 71, 066401.	2.1	49
29	Laser-launched flyer plates for shock physics experiments. Review of Scientific Instruments, 2005, 76, 093907.	1.3	61
30	Time-Resolved X-Ray Diffraction Investigation of Superheating-Melting of Crystals under Ultrafast Heating. AIP Conference Proceedings, 2004, , .	0.4	3
31	Melting at the Limit of Superheating. AIP Conference Proceedings, 2004, , .	0.4	0
32	Shock Response of Iron on Nanosecond Time Scales. AIP Conference Proceedings, 2004, , .	0.4	2
33	Predictions of the Microstructural Contribution to Instability Seeding in Beryllium ICF Capsules. AIP Conference Proceedings, 2004, , .	0.4	1
34	Shock pressures induced in condensed matter by laser ablation. Physical Review E, 2004, 69, 036406.	2.1	47
35	Treatment of compounds and alloys in radiation hydrodynamics simulations of ablative laser loading. Physical Review E, 2004, 69, 056401.	2.1	10