

Alison M Saunders

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

440
citations

933264

10
h-index

713332

21
g-index

27
all docs

27
docs citations

27
times ranked

677
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of diamonds in laser-compressed hydrocarbons at planetary interior conditions. <i>Nature Astronomy</i> , 2017, 1, 606-611.	4.2	152
2	Observation of Betatron X-Ray Radiation in a Self-Modulated Laser Wakefield Accelerator Driven with Picosecond Laser Pulses. <i>Physical Review Letters</i> , 2017, 118, 134801.	2.9	45
3	Demonstration of X-ray Thomson scattering as diagnostics for miscibility in warm dense matter. <i>Nature Communications</i> , 2020, 11, 2620.	5.8	27
4	High-pressure chemistry of hydrocarbons relevant to planetary interiors and inertial confinement fusion. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	24
5	X-ray sources using a picosecond laser driven plasma accelerator. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	22
6	Evidence for Crystalline Structure in Dynamically-Compressed Polyethylene up to 200 GPa. <i>Scientific Reports</i> , 2019, 9, 4196.	1.6	22
7	Platform for spectrally resolved x-ray scattering from imploding capsules at the National Ignition Facility. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012067.	0.3	16
8	Liquid Structure of Shock-Compressed Hydrocarbons at Megabar Pressures. <i>Physical Review Letters</i> , 2018, 121, 245501.	2.9	16
9	Experiments with a Malkusâ€™ Lorenz water wheel: Chaos and Synchronization. <i>American Journal of Physics</i> , 2012, 80, 192-202.	0.3	13
10	Betatron x-ray radiation from laser-plasma accelerators driven by femtosecond and picosecond laser systems. <i>Physics of Plasmas</i> , 2018, 25, 056706.	0.7	10
11	Measurement of diamond nucleation rates from hydrocarbons at conditions comparable to the interiors of icy giant planets. <i>Physical Review B</i> , 2020, 101, .	1.1	10
12	Measuring the structure and equation of state of polyethylene terephthalate at megabar pressures. <i>Scientific Reports</i> , 2021, 11, 12883.	1.6	10
13	Characterizing plasma conditions in radiatively heated solid-density samples with x-ray Thomson scattering. <i>Physical Review E</i> , 2018, 98, .	0.8	9
14	Experimental Observations of Laser-Driven Tin Ejecta Microjet Interactions. <i>Physical Review Letters</i> , 2021, 127, 155002.	2.9	9
15	Hydrodynamic computations of high-power laser drives generating metal ejecta jets from surface grooves. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	8
16	Demonstration of a laser-driven, narrow spectral bandwidth x-ray source for collective x-ray scattering experiments. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	8
17	Development of high power laser platforms to study metal ejecta interactions. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	7
18	X-ray Thomson scattering measurements from hohlraum-driven spheres on the OMEGA laser. <i>Review of Scientific Instruments</i> , 2016, 87, 11E724.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Improving a high-efficiency, gated spectrometer for x-ray Thomson scattering experiments at the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11E515.	0.6	6
20	Using time-resolved penumbral imaging to measure low hot spot x-ray emission signals from capsule implosions at the National Ignition Facility. Review of Scientific Instruments, 2018, 89, 10G111.	0.6	5
21	Multi-parameter identification from scalar time series generated by a Malkus-Lorenz water wheel. Chaos, 2012, 22, 013127.	1.0	4
22	Developing a long-duration Zn K- $\hat{\pm}$ source for x-ray scattering experiments. Review of Scientific Instruments, 2018, 89, 10F109.	0.6	4
23	Radiographic areal density measurements on the OMEGA EP laser system. Review of Scientific Instruments, 2021, 92, 053901.	0.6	4
24	Influence of argon impurities on the elastic scattering of x-rays from imploding beryllium capsules. High Energy Density Physics, 2018, 26, 86-92.	0.4	3
25	Enhanced fluorescence from x-ray line coincidence pumping of K-pumped Cl and Mg-pumped Ge plasmas. , 2019, , .		0
26	Enhanced Fluorescence from X-Ray Line Coincidence Pumping. Springer Proceedings in Physics, 2020, , 29-35.	0.1	0
27	Hydrodynamic and atomistic studies in support of high power laser experiments for metal ejecta recollection and interactions. AIP Conference Proceedings, 2020, , .	0.3	0