

Charlie Jarrott

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,109
citations

471509

17
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Burning plasma achieved in inertial fusion. <i>Nature</i> , 2022, 601, 542-548.	27.8	233
2	The high velocity, high adiabat, "Bigfoot" campaign and tests of indirect-drive implosion scaling. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	90
3	Design of inertial fusion implosions reaching the burning plasma regime. <i>Nature Physics</i> , 2022, 18, 251-258.	16.7	87
4	Approaching a burning plasma on the NIF. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	83
5	Production of neutrons up to 18 MeV in high-intensity, short-pulse laser matter interactions. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	80
6	Exploring the limits of case-to-capsule ratio, pulse length, and picket energy for symmetric hohlraum drive on the National Ignition Facility Laser. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	79
7	Development of Improved Radiation Drive Environment for High Foot Implosions at the National Ignition Facility. <i>Physical Review Letters</i> , 2016, 117, 225002.	7.8	61
8	Time-resolved compression of a capsule with a cone to high density for fast-ignition laser fusion. <i>Nature Communications</i> , 2014, 5, 5785.	12.8	50
9	Hotspot conditions achieved in inertial confinement fusion experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	50
10	Visualizing fast electron energy transport into laser-compressed high-density fast-ignition targets. <i>Nature Physics</i> , 2016, 12, 499-504.	16.7	49
11	The influence of hohlraum dynamics on implosion symmetry in indirect drive inertial confinement fusion experiments. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	42
12	Thermal Temperature Measurements of Inertial Fusion Implosions. <i>Physical Review Letters</i> , 2018, 121, 085001.	7.8	31
13	K α and bremsstrahlung x-ray radiation backlighter sources from short pulse laser driven silver targets as a function of laser pre-pulse energy. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	29
14	Hotspot electron temperature from x-ray continuum measurements on the NIF. <i>Review of Scientific Instruments</i> , 2016, 87, 11E534.	1.3	21
15	On krypton-doped capsule implosion experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	20
16	Achieving 280 Gbar hot spot pressure in DT-layered CH capsule implosions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	20
17	Observation of Hydrodynamic Flows in Imploding Fusion Plasmas on the National Ignition Facility. <i>Physical Review Letters</i> , 2021, 127, 125001.	7.8	20
18	Calibration and characterization of a highly efficient spectrometer in von Hamos geometry for 7-10 keV x-rays. <i>Review of Scientific Instruments</i> , 2017, 88, 043110.	1.3	15

#	ARTICLE	IF	CITATIONS
19	Performance of beryllium targets with full-scale capsules in low-fill 6.72-mm hohlraums on the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	14
20	Development of a krypton-doped gas symmetry capsule platform for x-ray spectroscopy of implosion cores on the NIF. <i>Review of Scientific Instruments</i> , 2016, 87, 11E327.	1.3	13
21	Laboratory measurements of geometrical effects in the x-ray emission of optically thick lines for ICF diagnostics. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	9
22	Transport and spatial energy deposition of relativistic electrons in copper-doped fast ignition plasmas. <i>Physics of Plasmas</i> , 2017, 24, 102710.	1.9	6
23	Implementing time resolved electron temperature capability at the NIF using a streak camera. <i>Review of Scientific Instruments</i> , 2018, 89, 10K117.	1.3	5
24	Demonstration of Geometric Effects and Resonant Scattering in the X-Ray Spectra of High-Energy-Density Plasmas. <i>Physical Review Letters</i> , 2021, 126, 085001.	7.8	2
25	Particle transport and electric fields in a laser-generated focused proton beam. , 2012, , .		0