

# Charlie Jarrott

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9045680/publications.pdf>

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	Design of inertial fusion implosions reaching the burning plasma regime. <i>Nature Physics</i> , 2022, 18, 251-258.	16.7	87
2	Burning plasma achieved in inertial fusion. <i>Nature</i> , 2022, 601, 542-548.	27.8	233
3	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
4	Observation of Hydrodynamic Flows in Imploding Fusion Plasmas on the National Ignition Facility. <i>Physical Review Letters</i> , 2021, 127, 125001.	7.8	20
5	Hotspot conditions achieved in inertial confinement fusion experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	50
6	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
7	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
8	Approaching a burning plasma on the NIF. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	83
9	The high velocity, high adiabat, "Bigfoot" campaign and tests of indirect-drive implosion scaling. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	90
10	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
11	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
12	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
13	Thermal Temperature Measurements of Inertial Fusion Implosions. <i>Physical Review Letters</i> , 2018, 121, 085001.	7.8	31
14	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
15	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
16	On krypton-doped capsule implosion experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	20
17	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
18	Hotspot electron temperature from x-ray continuum measurements on the NIF. <i>Review of Scientific Instruments</i> , 2016, 87, 11E534.	1.3	21

#	ARTICLE	IF	CITATIONS
19	Development of a krypton-doped gas symmetry capsule platform for x-ray spectroscopy of implosion cores on the NIF. Review of Scientific Instruments, 2016, 87, 11E327.	1.3	13
20	Development of Improved Radiation Drive Environment for High Foot Implosions at the National Ignition Facility. Physical Review Letters, 2016, 117, 225002.	7.8	61
21	Visualizing fast electron energy transport into laser-compressed high-density fast-ignition targets. Nature Physics, 2016, 12, 499-504.	16.7	49
22	Time-resolved compression of a capsule with a cone to high density for fast-ignition laser fusion. Nature Communications, 2014, 5, 5785.	12.8	50
23	K $\alpha$ and bremsstrahlung x-ray radiation backlighter sources from short pulse laser driven silver targets as a function of laser pre-pulse energy. Physics of Plasmas, 2014, 21, .	1.9	29
24	Particle transport and electric fields in a laser-generated focused proton beam. , 2012, , .		0
25	Production of neutrons up to 18 MeV in high-intensity, short-pulse laser matter interactions. Physics of Plasmas, 2011, 18, .	1.9	80