Douglas Wilson

List of Publications by Year
in descending order

31 papers	1,813 citations	430874 18 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	911 citing authors

#	Article	IF	Citations
1	Mechanisms of shape transfer and preheating in indirect-drive double shell collisions. Physics of Plasmas, 2022, 29, .	1.9	7
2	Constraining computational modeling of indirect drive double shell capsule implosions using experiments. Physics of Plasmas, 2021, 28, .	1.9	17
3	Single and double shell ignition targets for the national ignition facility at 527â€‰nm. Physics of Plasmas, 2021, 28, .	1.9	3
4	Density determination of the thermonuclear fuel region in inertial confinement fusion implosions. Journal of Applied Physics, 2020, 127, .	2.5	15
5	Experimental study of energy transfer in double shell implosions. Physics of Plasmas, 2019, 26, .	1.9	32
6	Variable convergence liquid layer implosions on the National Ignition Facility. Physics of Plasmas, 2018, 25, .	1.9	15
7	Design considerations for indirectly driven double shell capsules. Physics of Plasmas, 2018, 25, .	1.9	65
8	First D+D neutron image at the National Ignition Facility. Physics of Plasmas, 2018, 25, .	1.9	9
9	Implosion shape control of high-velocity, large case-to-capsule ratio beryllium ablators at the National Ignition Facility. Physics of Plasmas, 2018, 25, 072708.	1.9	16
10	Performance of beryllium targets with full-scale capsules in low-fill 6.72-mm hohlraums on the National Ignition Facility. Physics of Plasmas, 2017, 24, .	1.9	14
11	Use of 41Ar production to measure ablator areal density in NIF beryllium implosions. Physics of Plasmas, 2017, 24, .	1.9	2
12	First beryllium capsule implosions on the National Ignition Facility. Physics of Plasmas, 2016, 23, 056310.	1.9	37
13	First Liquid Layer Inertial Confinement Fusion Implosions at the National Ignition Facility. Physical Review Letters, 2016, 117, 245001.	7.8	53
14	Neutron source reconstruction from pinhole imaging at National Ignition Facility. Review of Scientific Instruments, 2014, 85, 023508.	1.3	78
15	Hydrodynamic instabilities in beryllium targets for the National Ignition Facility. Physics of Plasmas, 2014, 21, 092701.	1.9	27
16	Progress towards ignition on the National Ignition Facility. Physics of Plasmas, 2013, 20, .	1.9	259
17	Nuclear imaging of the fuel assembly in ignition experiments. Physics of Plasmas, 2013, 20, 056320.	1.9	65
18	The neutron imaging diagnostic at NIF (invited). Review of Scientific Instruments, 2012, 83, 10D317.	1.3	116

#	Article	IF	Citations
19	A high-resolution integrated model of the National Ignition Campaign cryogenic layered experiments. Physics of Plasmas, 2012, 19, .	1.9	108
20	Point design targets, specifications, and requirements for the 2010 ignition campaign on the National Ignition Facility. Physics of Plasmas, 2011, 18, .	1.9	534
21	Diagnosing inertial confinement fusion gamma ray physics (invited). Review of Scientific Instruments, 2010, 81, 10D333.	1.3	85
22	Progress toward the development and testing of source reconstruction methods for NIF neutron imaging. Review of Scientific Instruments, 2010, 81, 10D311.	1.3	8
23	Modeling the National Ignition Facility neutron imaging system. Review of Scientific Instruments, 2010, 81, 10D335.	1.3	10
24	First measurements of the absolute neutron spectrum using the magnetic recoil spectrometer at OMEGA (invited). Review of Scientific Instruments, 2008, 79, 10E502.	1.3	78
25	Application of fall-line mix models to understand degraded yield. Physics of Plasmas, 2008, 15, .	1.9	18
26	Calculations of a Fill Hole/Tube in an Ignition Capsule. Fusion Science and Technology, 2006, 49, 558-564.	1.1	5
27	Direct drive double shell target implosion hydrodynamics on OMEGA. Laser and Particle Beams, 2005, 23, 187-192.	1.0	29
28	The influence of asymmetry on mix in direct-drive inertial confinement fusion experiments. Physics of Plasmas, 2004, 11, 2771-2777.	1.9	25
29	First results of pinhole neutron imaging for inertial confinement fusion. Review of Scientific Instruments, 2003, 74, 2690-2694.	1.3	33
30	Goals for and design of a neutron pinhole imaging system for ignition capsules. Review of Scientific Instruments, 2003, 74, 1705-1708.	1.3	19
31	Development of a neutron imaging diagnostic for inertial confinement fusion experiments. Review of Scientific Instruments, 2001, 72, 865-868.	1.3	31