

M P Farrell

List of Publications by Year in descending order

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28
papers

870
citations

516710

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501196

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28
all docs

28
docs citations

28
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing “inverted-corona” fusion targets as high-fluence neutron sources. Review of Scientific Instruments, 2021, 92, 033544.	1.3	4
2	A polar direct drive liquid deuterium–tritium wetted foam target concept for inertial confinement fusion. Physics of Plasmas, 2021, 28, .	1.9	12
3	Review of hydrodynamic instability experiments in inertially confined fusion implosions on National Ignition Facility. Plasma Physics and Controlled Fusion, 2020, 62, 014007.	2.1	31
4	Progress of indirect drive inertial confinement fusion in the United States. Nuclear Fusion, 2019, 59, 112018.	3.5	38
5	Capsule Shimming Developments for National Ignition Facility (NIF) Hohlraum Asymmetry Experiments. Fusion Science and Technology, 2018, 73, 279-284.	1.1	3
6	Variable convergence liquid layer implosions on the National Ignition Facility. Physics of Plasmas, 2018, 25, .	1.9	15
7	Optimization of a high-yield, low-areal-density fusion product source at the National Ignition Facility with applications in nucleosynthesis experiments. Physics of Plasmas, 2018, 25, .	1.9	10
8	Process Developments in the Fabrication of Depleted Uranium Hohlräume. Fusion Science and Technology, 2018, 73, 370-379.	1.1	4
9	Zinc Oxide–Coated Poly(HIPE) Annular Liners to Advance Laser Indirect Drive Inertial Confinement Fusion. Fusion Science and Technology, 2018, 73, 210-218.	1.1	6
10	First demonstration of improved capsule implosions by reducing radiation preheat in uranium vs gold hohlraums. Physics of Plasmas, 2018, 25, .	1.9	17
11	Mitigation of X-ray shadow seeding of hydrodynamic instabilities on inertial confinement fusion capsules using a reduced diameter fuel fill-tube. Physics of Plasmas, 2018, 25, .	1.9	30
12	Review of hydro-instability experiments with alternate capsule supports in indirect-drive implosions on the National Ignition Facility. Physics of Plasmas, 2018, 25, 072705.	1.9	20
13	Hydrodynamic instabilities seeded by the X-ray shadow of ICF capsule fill-tubes. Physics of Plasmas, 2018, 25, .	1.9	25
14	Development of an inertial confinement fusion platform to study charged-particle-producing nuclear reactions relevant to nuclear astrophysics. Physics of Plasmas, 2017, 24, .	1.9	20
15	Hydrodynamic instability growth of three-dimensional modulations in radiation-driven implosions with “low-foot” and “high-foot” drives at the National Ignition Facility. Physics of Plasmas, 2017, 24, .	1.9	30
16	Mix and hydrodynamic instabilities on NIF. Journal of Instrumentation, 2017, 12, C06001-C06001.	1.2	21
17	Hydro-instability growth of perturbation seeds from alternate capsule-support strategies in indirect-drive implosions on National Ignition Facility. Physics of Plasmas, 2017, 24, 102707.	1.9	27
18	Improvements in Fabrication of Elastic Scattering Foils Used to Measure Neutron Yield by the Magnetic Recoil Spectrometer. Fusion Science and Technology, 2016, 70, 365-371.	1.1	3

#	ARTICLE	IF	CITATIONS
19	Surface oxygen micropatterns on glow discharge polymer targets by photo irradiation. Journal of Applied Physics, 2016, 119, .	2.5	12
20	High-resolution measurements of the DT neutron spectrum using new CD foils in the Magnetic Recoil neutron Spectrometer (MRS) on the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11D816.	1.3	7
21	Experimental results of radiation-driven, layered deuterium-tritium implosions with adiabat-shaped drives at the National Ignition Facility. Physics of Plasmas, 2016, 23, .	1.9	27
22	Experimental evidence of a bubble-merger regime for the Rayleigh-Taylor Instability at the ablation front. Journal of Physics: Conference Series, 2016, 717, 012010.	0.4	5
23	Probing the deep nonlinear stage of the ablative Rayleigh-Taylor instability in indirect drive experiments on the National Ignition Facility. Physics of Plasmas, 2015, 22, .	1.9	30
24	Progress towards ignition on the National Ignition Facility. Physics of Plasmas, 2013, 20, .	1.9	259
25	The magnetic recoil spectrometer for measurements of the absolute neutron spectrum at OMEGA and the NIF. Review of Scientific Instruments, 2013, 84, 043506.	1.3	59
26	Fabrication of Thin CH and CD Films and Patterned Films Using a Heat Press Technique for the NIF and OMEGA Magnetic Recoil Neutron Spectrometer. Fusion Science and Technology, 2013, 63, 268-273.	1.1	3
27	Measuring the absolute deuterium-tritium neutron yield using the magnetic recoil spectrometer at OMEGA and the NIF. Review of Scientific Instruments, 2012, 83, 10D912.	1.3	35
28	Neutron spectrometry—An essential tool for diagnosing implosions at the National Ignition Facility (invited). Review of Scientific Instruments, 2012, 83, 10D308.	1.3	117