

M P Farrell

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

870
citations

516710

16
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress towards ignition on the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	259
2	Neutron spectrometryâ€”An essential tool for diagnosing implosions at the National Ignition Facility (invited). <i>Review of Scientific Instruments</i> , 2012, 83, 10D308.	1.3	117
3	The magnetic recoil spectrometer for measurements of the absolute neutron spectrum at OMEGA and the NIF. <i>Review of Scientific Instruments</i> , 2013, 84, 043506.	1.3	59
4	Progress of indirect drive inertial confinement fusion in the United States. <i>Nuclear Fusion</i> , 2019, 59, 112018.	3.5	38
5	Measuring the absolute deuteriumâ€”tritium neutron yield using the magnetic recoil spectrometer at OMEGA and the NIF. <i>Review of Scientific Instruments</i> , 2012, 83, 10D912.	1.3	35
6	Review of hydrodynamic instability experiments in inertially confined fusion implosions on National Ignition Facility. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014007.	2.1	31
7	Probing the deep nonlinear stage of the ablative Rayleigh-Taylor instability in indirect drive experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	30
8	Hydrodynamic instability growth of three-dimensional modulations in radiation-driven implosions with â€œlow-footâ€• and â€œhigh-footâ€• drives at the National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	30
9	Mitigation of X-ray shadow seeding of hydrodynamic instabilities on inertial confinement fusion capsules using a reduced diameter fuel fill-tube. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	30
10	Experimental results of radiation-driven, layered deuterium-tritium implosions with adiabat-shaped drives at the National Ignition Facility. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	27
11	Hydro-instability growth of perturbation seeds from alternate capsule-support strategies in indirect-drive implosions on National Ignition Facility. <i>Physics of Plasmas</i> , 2017, 24, 102707.	1.9	27
12	Hydrodynamic instabilities seeded by the X-ray shadow of ICF capsule fill-tubes. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	25
13	Mix and hydrodynamic instabilities on NIF. <i>Journal of Instrumentation</i> , 2017, 12, C06001-C06001.	1.2	21
14	Development of an inertial confinement fusion platform to study charged-particle-producing nuclear reactions relevant to nuclear astrophysics. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	20
15	Review of hydro-instability experiments with alternate capsule supports in indirect-drive implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2018, 25, 072705.	1.9	20
16	First demonstration of improved capsule implosions by reducing radiation preheat in uranium vs gold hohlraums. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	17
17	Variable convergence liquid layer implosions on the National Ignition Facility. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	15
18	Surface oxygen micropatterns on glow discharge polymer targets by photo irradiation. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	12

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19	A polar direct drive liquid deuteriumâ€“tritium wetted foam target concept for inertial confinement fusion. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	12
20	Optimization of a high-yield, low-areal-density fusion product source at the National Ignition Facility with applications in nucleosynthesis experiments. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	10
21	High-resolution measurements of the DT neutron spectrum using new CD foils in the Magnetic Recoil neutron Spectrometer (MRS) on the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2016, 87, 11D816.	1.3	7
22	Zinc Oxideâ€“Coated Poly(HIPE) Annular Liners to Advance Laser Indirect Drive Inertial Confinement Fusion. <i>Fusion Science and Technology</i> , 2018, 73, 210-218.	1.1	6
23	Experimental evidence of a bubble-merger regime for the Rayleigh-Taylor Instability at the ablation front. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012010.	0.4	5
24	Process Developments in the Fabrication of Depleted Uranium Hohlräume. <i>Fusion Science and Technology</i> , 2018, 73, 370-379.	1.1	4
25	Developing â€œinverted-coronaâ€ fusion targets as high-fluence neutron sources. <i>Review of Scientific Instruments</i> , 2021, 92, 033544.	1.3	4
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. <i>Fusion Science and Technology</i> , 2013, 63, 268-273.	1.1	3
27	Improvements in Fabrication of Elastic Scattering Foils Used to Measure Neutron Yield by the Magnetic Recoil Spectrometer. <i>Fusion Science and Technology</i> , 2016, 70, 365-371.	1.1	3
28	Capsule Shimming Developments for National Ignition Facility (NIF) Hohlraum Asymmetry Experiments. <i>Fusion Science and Technology</i> , 2018, 73, 279-284.	1.1	3