

Cary B Forest

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

942
citations

516710

16
h-index

477307

29
g-index

61
all docs

61
docs citations

61
times ranked

1033
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory evidence of dynamo amplification of magnetic fields in a turbulent plasma. Nature Communications, 2018, 9, 591.	12.8	105
2	Laser polarimetric measurement of equilibrium and fluctuating magnetic fields in a reversed field pinch (invited). Review of Scientific Instruments, 2003, 74, 1534-1540.	1.3	73
3	Magnetic dynamos in the lab. Physics Today, 2011, 64, 40-45.	0.3	61
4	Onset and Saturation of the Kink Instability in a Current-Carrying Line-Tied Plasma. Physical Review Letters, 2006, 96, 015004.	7.8	57
5	The Wisconsin Plasma Astrophysics Laboratory. Journal of Plasma Physics, 2015, 81, .	2.1	54
6	Experimental Demonstration of the Collisionless Plasmoid Instability below the Ion Kinetic Scale during Magnetic Reconnection. Physical Review Letters, 2016, 116, 255001.	7.8	44
7	Multichannel far-infrared polarimeter-interferometer system on the MST reversed field pinch. Review of Scientific Instruments, 2001, 72, 1077-1080.	1.3	41
8	The Madison plasma dynamo experiment: A facility for studying laboratory plasma astrophysics. Physics of Plasmas, 2014, 21, 013505.	1.9	40
9	Efficient generation of noninductive, off-axis, Ohkawa current, driven by electron Bernstein waves in high \hat{I}^2 , spherical torus plasmas. Physics of Plasmas, 2004, 11, 4733-4739.	1.9	37
10	A SPHERICAL PLASMA DYNAMO EXPERIMENT. Astrophysical Journal, 2009, 700, 470-478.	4.5	34
11	Stirring Unmagnetized Plasma. Physical Review Letters, 2012, 108, 115001.	7.8	34
12	Numerical modeling of laser-driven experiments aiming to demonstrate magnetic field amplification via turbulent dynamo. Physics of Plasmas, 2017, 24, .	1.9	31
13	Electron temperature of the solar wind. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9232-9240.	7.1	27
14	Dynamo-free plasma in the reversed field pinch. Physics of Plasmas, 2004, 11, L9-L12.	1.9	17
15	Global Hall-MHD simulations of magnetorotational instability in a plasma Couette flow experiment. Physics of Plasmas, 2011, 18, .	1.9	17
16	Dissipation range turbulent cascades in plasmas. Physics of Plasmas, 2012, 19, .	1.9	17
17	Transition in electron physics of magnetic reconnection in weakly collisional plasma. Journal of Plasma Physics, 2015, 81, .	2.1	16
18	Measurement of current profile dynamics in the Madison Symmetric Torus. Physics of Plasmas, 2004, 11, 1079-1086.	1.9	15

#	ARTICLE	IF	CITATIONS
19	Weakly Magnetized, Hall Dominated Plasma Couette Flow. <i>Physical Review Letters</i> , 2020, 125, 135001.	7.8	14
20	Taylor-Couette flow of unmagnetized plasma. <i>Physics of Plasmas</i> , 2014, 21, 042117.	1.9	13
21	Hysteresis cycle in a turbulent, spherically bounded MHD dynamo model. <i>New Journal of Physics</i> , 2009, 11, 013027.	2.9	12
22	Energetic-particle-driven instabilities and induced fast-ion transport in a reversed field pinch. <i>Physics of Plasmas</i> , 2014, 21, 056104.	1.9	12
23	Direct measurement of the plasma loss width in an optimized, high ionization fraction, magnetic multi-dipole ring cusp. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	12
24	Runaway of energetic test ions in a toroidal plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
25	Two-dimensional axisymmetric and three-dimensional helical equilibrium in the line-tied screw pinch. <i>Physics of Plasmas</i> , 2011, 18, 052114.	1.9	10
26	Optimized boundary driven flows for dynamos in a sphere. <i>Physics of Plasmas</i> , 2012, 19, 112106.	1.9	10
27	Magnetic bucket for rotating unmagnetized plasma. <i>Review of Scientific Instruments</i> , 2012, 83, 063502.	1.3	9
28	A laboratory model for the Parker spiral and magnetized stellar winds. <i>Nature Physics</i> , 2019, 15, 1095-1100.	16.7	9
29	Regulation of the normalized rate of driven magnetic reconnection through shocked flux pileup. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	9
30	Resistive and ferritic-wall plasma dynamos in a sphere. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	8
31	Observation of Electron Bernstein Wave Heating in a Reversed Field Pinch. <i>Physical Review Letters</i> , 2017, 119, 185001.	7.8	8
32	A drift kinetic model for the expander region of a magnetic mirror. <i>Physics of Plasmas</i> , 2021, 28, 042510.	1.9	8
33	Laboratory Verification of Electron-Scale Reconnection Regions Modulated by a Three-Dimensional Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029316.	2.4	8
34	The rotating wall machine: A device to study ideal and resistive magnetohydrodynamic stability under variable boundary conditions. <i>Review of Scientific Instruments</i> , 2010, 81, 123503.	1.3	7
35	Driving large magnetic Reynolds number flow in highly ionized, unmagnetized plasmas. <i>Physics of Plasmas</i> , 2017, 24, 056502.	1.9	7
36	Observation of energetic electron confinement in a largely stochastic reversed-field pinch plasma. <i>Physics of Plasmas</i> , 2010, 17, 012505.	1.9	6

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37	Prospects for observing the magnetorotational instability in the plasma Couette experiment. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	6
38	Wall-locking of kink modes in a line-tied screw pinch with a rotating wall. <i>Physics of Plasmas</i> , 2012, 19, 056104.	1.9	4
39	X-ray analysis of electron Bernstein wave heating in MST. <i>Review of Scientific Instruments</i> , 2016, 87, 11E329.	1.3	4
40	A spectrometer for high-precision ion temperature and velocity measurements in low-temperature plasmas. <i>Review of Scientific Instruments</i> , 2019, 90, 063502.	1.3	4
41	Design of a lower hybrid antenna for current drive experiments on MST. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	3
42	Fluctuation-driven magnetic fields in the Madison Dynamo Experiment. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	3
43	Asymmetric error field interaction with rotating conducting walls. <i>Physics of Plasmas</i> , 2012, 19, 072511.	1.9	3
44	Fast Dynamos in Spherical Boundary-Driven Flows. <i>Physical Review Letters</i> , 2013, 111, 125001.	7.8	3
45	Bootstrapping under constraint for the assessment of group behavior in human contact networks. <i>Physical Review E</i> , 2013, 88, 052812.	2.1	3
46	Instability, Turbulence, and 3D Magnetic Reconnection in a Line-Tied, Zero Net Current Screw Pinch. <i>Physical Review Letters</i> , 2015, 114, 145001.	7.8	3
47	Laminar and turbulent plasmoid ejection in a laboratory Parker Spiral current sheet. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	3
48	Terrella for advanced undergraduate laboratory. <i>American Journal of Physics</i> , 2020, 88, 670-675.	0.7	2
49	Laboratory Resolved Structure of Supercritical Perpendicular Shocks. <i>Physical Review Letters</i> , 2021, 126, 145001.	7.8	2
50	Ion Heating and Flow Driven by an Instability Found in Plasma Couette Flow. <i>Physical Review Letters</i> , 2021, 126, 185002.	7.8	2
51	Electron Bernstein wave experiment in an overdense reversed field pinch plasma. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	1
52	Identification of vortexes obstructing the dynamo mechanism in laboratory experiments. <i>Physics of Fluids</i> , 2013, 25, .	4.0	1
53	High ionisation fraction plasmas in a low temperature, multipole cusp plasma. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	1
54	Formation of transient high- β^2 plasmas in a magnetized, weakly collisional regime. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	1

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55	EBW Experiments in the Madison Symmetric Torus. AIP Conference Proceedings, 2005, , .	0.4	0
56	Electron Bernstein Wave Experiment on the Madison Symmetric Torus. AIP Conference Proceedings, 2007, , .	0.4	0
57	Electron Bernstein Wave Experiment on the Madison Symmetric Torus. , 2009, , .		0
58	Driving magnetic turbulence using flux ropes in a moderate guide field linear system. Journal of Plasma Physics, 2017, 83, .	2.1	0
59	Electron Bernstein Wave Heating Experiment on the Madison Symmetric Torus. , 2009, , .		0