Cary B Forest

List of Publications by Year
in descending order

59	942	516710 16	477307 29
papers	citations	h-index	g-index

61	61	61	1033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation of transient high-Î² plasmas in a magnetized, weakly collisional regime. Journal of Plasma Physics, 2021, 87, .	2.1	1
2	Laboratory Resolved Structure of Supercritical Perpendicular Shocks. Physical Review Letters, 2021, 126, 145001.	7.8	2
3	A drift kinetic model for the expander region of a magnetic mirror. Physics of Plasmas, 2021, 28, 042510.	1.9	8
4	Ion Heating and Flow Driven by an Instability Found in Plasma Couette Flow. Physical Review Letters, 2021, 126, 185002.	7.8	2
5	Regulation of the normalized rate of driven magnetic reconnection through shocked flux pileup. Journal of Plasma Physics, 2021, 87, .	2.1	9
6	Laboratory Verification of Electronâ€Scale Reconnection Regions Modulated by a Threeâ€Dimensional Instability. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029316.	2.4	8
7	Laminar and turbulent plasmoid ejection in a laboratory Parker Spiral current sheet. Journal of Plasma Physics, 2021, 87, .	2.1	3
8	Weakly Magnetized, Hall Dominated Plasma Couette Flow. Physical Review Letters, 2020, 125, 135001.	7.8	14
9	Terrella for advanced undergraduate laboratory. American Journal of Physics, 2020, 88, 670-675.	0.7	2
10	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
11	A laboratory model for the Parker spiral and magnetized stellar winds. Nature Physics, 2019, 15, 1095-1100.	16.7	9
12	A spectrometer for high-precision ion temperature and velocity measurements in low-temperature plasmas. Review of Scientific Instruments, 2019, 90, 063502.	1.3	4
13	Laboratory evidence of dynamo amplification of magnetic fields in a turbulent plasma. Nature Communications, 2018, 9, 591.	12.8	105
14	High ionisation fraction plasmas in a low temperature, multidipole cusp plasma. Journal of Plasma Physics, 2018, 84, .	2.1	1
15	Driving large magnetic Reynolds number flow in highly ionized, unmagnetized plasmas. Physics of Plasmas, 2017, 24, 056502.	1.9	7
16	Numerical modeling of laser-driven experiments aiming to demonstrate magnetic field amplification via turbulent dynamo. Physics of Plasmas, 2017, 24, .	1.9	31
17	Observation of Electron Bernstein Wave Heating in a Reversed Field Pinch. Physical Review Letters, 2017, 119, 185001.	7.8	8
18	Driving magnetic turbulence using flux ropes in a moderate guide field linear system. Journal of Plasma Physics, 2017, 83, .	2.1	0

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19	X-ray analysis of electron Bernstein wave heating in MST. Review of Scientific Instruments, 2016, 87, 11E329.	1.3	4
20	Direct measurement of the plasma loss width in an optimized, high ionization fraction, magnetic multi-dipole ring cusp. Physics of Plasmas, 2016, 23, .	1.9	12
21	Experimental Demonstration of the Collisionless Plasmoid Instability below the Ion Kinetic Scale during Magnetic Reconnection. Physical Review Letters, 2016, 116, 255001.	7.8	44
22	Prospects for observing the magnetorotational instability in the plasma Couette experiment. Journal of Plasma Physics, 2015, 81, .	2.1	6
23	The Wisconsin Plasma Astrophysics Laboratory. Journal of Plasma Physics, 2015, 81, .	2.1	54
24	Transition in electron physics of magnetic reconnection in weakly collisional plasma. Journal of Plasma Physics, 2015, 81, .	2.1	16
25	Instability, Turbulence, and 3D Magnetic Reconnection in a Line-Tied, Zero Net Current Screw Pinch. Physical Review Letters, 2015, 114, 145001.	7.8	3
26	Runaway of energetic test ions in a toroidal plasma. Physics of Plasmas, 2015, 22, .	1.9	11
27	The Madison plasma dynamo experiment: A facility for studying laboratory plasma astrophysics. Physics of Plasmas, 2014, 21, 013505.	1.9	40
28	Energetic-particle-driven instabilities and induced fast-ion transport in a reversed field pinch. Physics of Plasmas, 2014, 21, 056104.	1.9	12
29	Taylor-Couette flow of unmagnetized plasma. Physics of Plasmas, 2014, 21, 042117.	1.9	13
30	Fast Dynamos in Spherical Boundary-Driven Flows. Physical Review Letters, 2013, 111, 125001.	7.8	3
31	Bootstrapping under constraint for the assessment of group behavior in human contact networks. Physical Review E, 2013, 88, 052812.	2.1	3
32	Identification of vortexes obstructing the dynamo mechanism in laboratory experiments. Physics of Fluids, 2013, 25, .	4.0	1
33	Wall-locking of kink modes in a line-tied screw pinch with a rotating wall. Physics of Plasmas, 2012, 19, 056104.	1.9	4
34	Dissipation range turbulent cascades in plasmas. Physics of Plasmas, 2012, 19, .	1.9	17
35	Asymmetric error field interaction with rotating conducting walls. Physics of Plasmas, 2012, 19, 072511.	1.9	3
36	Optimized boundary driven flows for dynamos in a sphere. Physics of Plasmas, 2012, 19, 112106.	1.9	10

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37	Resistive and ferritic-wall plasma dynamos in a sphere. Physics of Plasmas, 2012, 19, .	1.9	8
38	Stirring Unmagnetized Plasma. Physical Review Letters, 2012, 108, 115001.	7.8	34
39	Magnetic bucket for rotating unmagnetized plasma. Review of Scientific Instruments, 2012, 83, 063502.	1.3	9
40	Magnetic dynamos in the lab. Physics Today, 2011, 64, 40-45.	0.3	61
41	Two-dimensional axisymmetric and three-dimensional helical equilibrium in the line-tied screw pinch. Physics of Plasmas, 2011, 18, 052114.	1.9	10
42	Global Hall-MHD simulations of magnetorotational instability in a plasma Couette flow experiment. Physics of Plasmas, 2011, 18, .	1.9	17
43	The rotating wall machine: A device to study ideal and resistive magnetohydrodynamic stability under variable boundary conditions. Review of Scientific Instruments, 2010, 81, 123503.	1.3	7
44	Observation of energetic electron confinement in a largely stochastic reversed-field pinch plasma. Physics of Plasmas, 2010, 17, 012505.	1.9	6
45	Electron Bernstein Wave Experiment on the Madison Symmetric Torus. , 2009, , .		0
46	Hysteresis cycle in a turbulent, spherically bounded MHD dynamo model. New Journal of Physics, 2009, 11, 013027.	2.9	12
47	A SPHERICAL PLASMA DYNAMO EXPERIMENT. Astrophysical Journal, 2009, 700, 470-478.	4.5	34
48	Electron Bernstein Wave Heating Experiment on the Madison Symmetric Torus. , 2009, , .		0
49	Fluctuation-driven magnetic fields in the Madison Dynamo Experiment. Physics of Plasmas, 2008, 15, .	1.9	3
50	Electron Bernstein Wave Experiment on the Madison Symmetric Torus. AIP Conference Proceedings, 2007, , .	0.4	0
51	Onset and Saturation of the Kink Instability in a Current-Carrying Line-Tied Plasma. Physical Review Letters, 2006, 96, 015004.	7.8	57
52	EBW Experiments in the Madison Symmetric Torus. AIP Conference Proceedings, 2005, , .	0.4	0
53	Dynamo-free plasma in the reversed field pinch. Physics of Plasmas, 2004, 11, L9-L12.	1.9	17
54	Efficient generation of noninductive, off-axis, Ohkawa current, driven by electron Bernstein waves in high Î², spherical torus plasmas. Physics of Plasmas, 2004, 11, 4733-4739.	1.9	37

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55	Measurement of current profile dynamics in the Madison Symmetric Torus. Physics of Plasmas, 2004, 11, 1079-1086.	1.9	15
56	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
57	Design of a lower hybrid antenna for current drive experiments on MST. AIP Conference Proceedings, 2001, , .	0.4	3
58	Electron Bernstein wave experiment in an overdense reversed field pinch plasma. AIP Conference Proceedings, 2001, , .	0.4	1
59	Multichannel far-infrared polarimeter-interferometer system on the MST reversed field pinch. Review of Scientific Instruments, 2001, 72, 1077-1080.	1.3	41