

Gennady Fiksel

List of Publications by Year in descending order

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41
papers

1,216
citations

361413

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docs citations

42
times ranked

1210
citing authors

#	ARTICLE	IF	CITATIONS
1	Filamentation Instability of Counterstreaming Laser-Driven Plasmas. <i>Physical Review Letters</i> , 2013, 111, 225002.	7.8	158
2	Inertial confinement fusion implosions with imposed magnetic field compression using the OMEGA Laser. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	112
3	Magnetic Reconnection between Colliding Magnetized Laser-Produced Plasma Plumes. <i>Physical Review Letters</i> , 2014, 113, 105003.	7.8	97
4	Generation and Evolution of High-Mach-Number Laser-Driven Magnetized Collisionless Shocks in the Laboratory. <i>Physical Review Letters</i> , 2017, 119, 025001.	7.8	66
5	Ultrafast proton radiography of the magnetic fields generated by a laser-driven coil current. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	57
6	Reconnection scaling experiment: A new device for three-dimensional magnetic reconnection studies. <i>Review of Scientific Instruments</i> , 2003, 74, 2324-2331.	1.3	56
7	Measurement of core velocity fluctuations and the dynamo in a reversed-field pinch. <i>Physics of Plasmas</i> , 1999, 6, 1813-1821.	1.9	50
8	Mass-Dependent Ion Heating during Magnetic Reconnection in a Laboratory Plasma. <i>Physical Review Letters</i> , 2009, 103, 145002.	7.8	50
9	Note: Experimental platform for magnetized high-energy-density plasma studies at the omega laser facility. <i>Review of Scientific Instruments</i> , 2015, 86, 016105.	1.3	50
10	Experimental study of ion heating and acceleration during magnetic reconnection. <i>Physics of Plasmas</i> , 2001, 8, 1916-1928.	1.9	49
11	Observation of Weak Impact of a Stochastic Magnetic Field on Fast-Ion Confinement. <i>Physical Review Letters</i> , 2005, 95, 125001.	7.8	37
12	Magnetic collimation of relativistic positrons and electrons from high intensity laser-matter interactions. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	37
13	Direct Observations of Particle Dynamics in Magnetized Collisionless Shock Precursors in Laser-Produced Plasmas. <i>Physical Review Letters</i> , 2019, 122, 245001.	7.8	33
14	A new frontier in laboratory physics: magnetized electron-positron plasmas. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	31
15	An optical probe for local measurements of fast plasma ion dynamics. <i>Review of Scientific Instruments</i> , 1998, 69, 2024-2026.	1.3	30
16	Ambipolar magnetic fluctuation-induced heat transport in toroidal devices. <i>Physics of Plasmas</i> , 1996, 3, 1999-2005.	1.9	27
17	A simple model for estimating a magnetic field in laser-driven coils. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	27
18	Magnetic Signatures of Radiation-Driven Double Ablation Fronts. <i>Physical Review Letters</i> , 2020, 125, 145001.	7.8	23

#	ARTICLE	IF	CITATIONS
19	E \times B flow shear and enhanced confinement in the Madison Symmetric Torus reversed-field pinch. <i>Physics of Plasmas</i> , 1998, 5, 1848-1854.	1.9	22
20	Modifications to the edge current profile with auxiliary edge current drive and improved confinement in a reversed-field pinch. <i>Physics of Plasmas</i> , 2000, 7, 3491-3494.	1.9	20
21	High- β^2 , improved confinement reversed-field pinch plasmas at high density. <i>Physics of Plasmas</i> , 2008, 15, 010701.	1.9	18
22	Astrophysical particle acceleration mechanisms in colliding magnetized laser-produced plasmas. <i>Physics of Plasmas</i> , 2017, 24, 092901.	1.9	18
23	Study of a magnetically driven reconnection platform using ultrafast proton radiography. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	17
24	Fast pyrobolometers for measurements of plasma heat fluxes and radiation losses in the Madison symmetric torus reversed field pinch. <i>Review of Scientific Instruments</i> , 1993, 64, 2761-2764.	1.3	16
25	Anomalous impurity ion heating from Alfvénic cascade in the reversed field pinch. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	16
26	Measuring magnetic flux suppression in high-power laser-plasma interactions. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	14
27	Biermann-Battery-Mediated Magnetic Reconnection in 3D Colliding Plasmas. <i>Physical Review Letters</i> , 2018, 121, 095001.	7.8	12
28	Pulse width dependence of magnetic field generation using laser-powered capacitor coils. <i>Physics of Plasmas</i> , 2021, 28, 052105.	1.9	9
29	Confinement of relativistic electrons in a magnetic mirror en route to a magnetized relativistic pair plasma. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	9
30	Measurements of the radial profile of magnetic field in the Gas-Dynamic Trap using a motional Stark effect diagnostic. <i>Review of Scientific Instruments</i> , 2003, 74, 1592-1595.	1.3	8
31	A ten-inch manipulator (TIM) based fast-electron spectrometer with multiple viewing angles (OU-ESM). <i>Review of Scientific Instruments</i> , 2019, 90, 063501.	1.3	8
32	Local measurements of plasma ion dynamics with optical probes. <i>Review of Scientific Instruments</i> , 2006, 77, 10F112.	1.3	7
33	Magnetically collimated relativistic charge-neutral electron-positron beams from high-power lasers. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	7
34	Dispersion calibration for the National Ignition Facility electron-positron-proton spectrometers for intense laser matter interactions. <i>Review of Scientific Instruments</i> , 2021, 92, 033516.	1.3	6
35	Experimental observations of detached bow shock formation in the interaction of a laser-produced plasma with a magnetized obstacle. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	6
36	Proton deflectometry with <i>in situ</i> x-ray reference for absolute measurement of electromagnetic fields in high-energy-density plasmas. <i>Review of Scientific Instruments</i> , 2022, 93, 023502.	1.3	4

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37	Fast pyrobolometer for magnetic heat transport measurements. Review of Scientific Instruments, 1995, 66, 662-663.	1.3	3
38	Design of proton deflectometry with in situ x-ray fiducial for magnetized high-energy-density systems. Applied Optics, 2022, 61, C133.	1.8	3
39	Comparison of ion temperature diagnostics on the Madison symmetric torus reversed-field pinch. Review of Scientific Instruments, 2003, 74, 1892-1895.	1.3	2
40	Electron energization during merging of self-magnetized, high-beta, laser-produced plasmas. Journal of Plasma Physics, 2021, 87, .	2.1	1
41	Magnetic field generation, Weibel-mediated collisionless shocks, and magnetic reconnection in colliding laser-produced plasmas. Proceedings of the International Astronomical Union, 2015, 11, 329-332.	0.0	0