

B Van Compernelle

List of Publications by Year in descending order

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35
papers

637
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567281

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docs citations

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times ranked

746
citing authors

#	ARTICLE	IF	CITATIONS
1	Sudden collapse of a pressure profile generated by off-axis heating in a linear magnetized plasma. <i>Physics of Plasmas</i> , 2022, 29, 042104.	1.9	1
2	Ponderomotive force driven density modifications parallel to B0 on the LAPD. <i>Physics of Plasmas</i> , 2022, 29, 042508.	1.9	5
3	Overview of plasma wave studies using the Basic Plasma Science Facility1. , 2021, , .		0
4	Stimulated excitation of thermal diffusion waves in a magnetized plasma pressure filament. <i>Physics of Plasmas</i> , 2021, 28, 092112.	1.9	1
5	Measurement and modeling of the radio frequency sheath impedance in a large magnetized plasma. <i>Physics of Plasmas</i> , 2020, 27, 072506.	1.9	6
6	Plasma flows generated by an annular thermionic cathode in a large magnetized plasma. <i>Physics of Plasmas</i> , 2019, 26, 022105.	1.9	13
7	Drift-Alfvén fluctuations and transport in multiple interacting magnetized electron temperature filaments. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	4
8	Modifications produced on a large magnetized plasma column by a floating end-plate that is partially emissive: Experiment and theory. <i>Physics of Plasmas</i> , 2019, 26, 122102.	1.9	2
9	Observations of a field-aligned ion/ion-beam instability in a magnetized laboratory plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	19
10	Nonlocal Ohms Law, Plasma Resistivity, and Reconnection During Collisions of Magnetic Flux Ropes. <i>Astrophysical Journal</i> , 2018, 853, 33.	4.5	12
11	Collisionless momentum transfer in space and astrophysical explosions. <i>Nature Physics</i> , 2017, 13, 573-577.	16.7	26
12	Laboratory study of collisionless coupling between explosive debris plasma and magnetized ambient plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	7
13	Non-local Ohm's law during collisions of magnetic flux ropes. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	6
14	Experimental Observation of Convective Cell Formation due to a Fast Wave Antenna in the Large Plasma Device. <i>Physical Review Letters</i> , 2017, 119, 205002.	7.8	20
15	Laboratory simulation of magnetospheric chorus wave generation. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014016.	2.1	20
16	Avalanches driven by pressure gradients in a magnetized plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	14
17	Generation of shear Alfvén waves by repetitive electron heating. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 567-577.	2.4	2
18	The upgraded Large Plasma Device, a machine for studying frontier basic plasma physics. <i>Review of Scientific Instruments</i> , 2016, 87, 025105.	1.3	112

#	ARTICLE	IF	CITATIONS
19	Pulsating Magnetic Reconnection Driven by Three-Dimensional Flux-Rope Interactions. <i>Physical Review Letters</i> , 2016, 116, 235101.	7.8	31
20	Resonant excitation of whistler waves by a helical electron beam. <i>Geophysical Research Letters</i> , 2016, 43, 2413-2421.	4.0	35
21	Excitation of Chirping Whistler Waves in a Laboratory Plasma. <i>Physical Review Letters</i> , 2015, 114, 245002.	7.8	51
22	Three-dimensional gyrokinetic simulation of the relaxation of a magnetized temperature filament. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	3
23	Electron beam generated whistler emissions in a laboratory plasma. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
24	Excitation of shear Alfvén waves by a spiraling ion beam in a large magnetoplasma. <i>Physical Review E</i> , 2015, 91, 013109.	2.1	5
25	Laboratory study of avalanches in magnetized plasmas. <i>Physical Review E</i> , 2015, 91, 031102.	2.1	13
26	Laser-driven, magnetized quasi-perpendicular collisionless shocks on the Large Plasma Device. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	22
27	Direct Detection of Resonant Electron Pitch Angle Scattering by Whistler Waves in a Laboratory Plasma. <i>Physical Review Letters</i> , 2014, 112, 145006.	7.8	22
28	Morphology and dynamics of three interacting kink-unstable flux ropes in a laboratory magnetoplasma. <i>Physics of Plasmas</i> , 2012, 19, 102102.	1.9	20
29	THREE-DIMENSIONAL RECONNECTION INVOLVING MAGNETIC FLUX ROPES. <i>Astrophysical Journal</i> , 2012, 753, 131.	4.5	39
30	The many faces of shear Alfvén waves. <i>Physics of Plasmas</i> , 2011, 18, 055501.	1.9	55
31	Wave and transport studies utilizing dense plasma filaments generated with a lanthanum hexaboride cathode. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	21
32	Magnetic field line reconnection in the current systems of flux ropes and Alfvén waves. <i>Physica Scripta</i> , 2010, T142, 014032.	2.5	13
33	A scalable multipass laser cavity based on injection by frequency conversion for noncollective Thomson scattering. <i>Review of Scientific Instruments</i> , 2010, 81, 10D518.	1.3	6
34	Generation of suprathermal electrons and Alfvén waves by a high power pulse at the electron plasma frequency. <i>Physics of Plasmas</i> , 2006, 13, 092112.	1.9	17
35	Generation of Alfvén waves by high power pulse at the electron plasma frequency. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	8