

# B Van Compernelle

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

637  
citations

567281

15  
h-index

580821

25  
g-index

36  
all docs

36  
docs citations

36  
times ranked

746  
citing authors

#	ARTICLE	IF	CITATIONS
1	The upgraded Large Plasma Device, a machine for studying frontier basic plasma physics. Review of Scientific Instruments, 2016, 87, 025105.	1.3	112
2	The many faces of shear Alfvén waves. Physics of Plasmas, 2011, 18, 055501.	1.9	55
3	Excitation of Chirping Whistler Waves in a Laboratory Plasma. Physical Review Letters, 2015, 114, 245002.	7.8	51
4	THREE-DIMENSIONAL RECONNECTION INVOLVING MAGNETIC FLUX ROPES. Astrophysical Journal, 2012, 753, 131.	4.5	39
5	Resonant excitation of whistler waves by a helical electron beam. Geophysical Research Letters, 2016, 43, 2413-2421.	4.0	35
6	Pulsating Magnetic Reconnection Driven by Three-Dimensional Flux-Rope Interactions. Physical Review Letters, 2016, 116, 235101.	7.8	31
7	Collisionless momentum transfer in space and astrophysical explosions. Nature Physics, 2017, 13, 573-577.	16.7	26
8	Laser-driven, magnetized quasi-perpendicular collisionless shocks on the Large Plasma Device. Physics of Plasmas, 2014, 21, .	1.9	22
9	Direct Detection of Resonant Electron Pitch Angle Scattering by Whistler Waves in a Laboratory Plasma. Physical Review Letters, 2014, 112, 145006.	7.8	22
10	Wave and transport studies utilizing dense plasma filaments generated with a lanthanum hexaboride cathode. Physics of Plasmas, 2011, 18, .	1.9	21
11	Morphology and dynamics of three interacting kink-unstable flux ropes in a laboratory magnetoplasma. Physics of Plasmas, 2012, 19, 102102.	1.9	20
12	Experimental Observation of Convective Cell Formation due to a Fast Wave Antenna in the Large Plasma Device. Physical Review Letters, 2017, 119, 205002.	7.8	20
13	Laboratory simulation of magnetospheric chorus wave generation. Plasma Physics and Controlled Fusion, 2017, 59, 014016.	2.1	20
14	Observations of a field-aligned ion/ion-beam instability in a magnetized laboratory plasma. Physics of Plasmas, 2018, 25, .	1.9	19
15	Generation of suprathermal electrons and Alfvén waves by a high power pulse at the electron plasma frequency. Physics of Plasmas, 2006, 13, 092112.	1.9	17
16	Avalanches driven by pressure gradients in a magnetized plasma. Physics of Plasmas, 2017, 24, .	1.9	14
17	Magnetic field line reconnection in the current systems of flux ropes and Alfvén waves. Physica Scripta, 2010, T142, 014032.	2.5	13
18	Laboratory study of avalanches in magnetized plasmas. Physical Review E, 2015, 91, 031102.	2.1	13

#	ARTICLE	IF	CITATIONS
19	Plasma flows generated by an annular thermionic cathode in a large magnetized plasma. <i>Physics of Plasmas</i> , 2019, 26, 022105.	1.9	13
20	Nonlocal Ohms Law, Plasma Resistivity, and Reconnection During Collisions of Magnetic Flux Ropes. <i>Astrophysical Journal</i> , 2018, 853, 33.	4.5	12
21	Generation of Alfvén waves by high power pulse at the electron plasma frequency. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	8
22	Laboratory study of collisionless coupling between explosive debris plasma and magnetized ambient plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	7
23	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
24	Non-local Ohm's law during collisions of magnetic flux ropes. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	6
25	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
26	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
27	Ponderomotive force driven density modifications parallel to $B_0$ on the LAPD. <i>Physics of Plasmas</i> , 2022, 29, 042508.	1.9	5
28	Drift-Alfvén fluctuations and transport in multiple interacting magnetized electron temperature filaments. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	4
29	Three-dimensional gyrokinetic simulation of the relaxation of a magnetized temperature filament. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	3
30	Generation of shear Alfvén waves by repetitive electron heating. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 567-577.	2.4	2
31	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
32	Stimulated excitation of thermal diffusion waves in a magnetized plasma pressure filament. <i>Physics of Plasmas</i> , 2021, 28, 092112.	1.9	1
33	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
34	Electron beam generated whistler emissions in a laboratory plasma. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
35	Overview of plasma wave studies using the Basic Plasma Science Facility1. , 2021, , .		0