

Chris Crabtree

List of Publications by Year in descending order

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54
papers

718
citations

471509

17
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552781

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55
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55
docs citations

55
times ranked

590
citing authors

#	ARTICLE	IF	CITATIONS
1	Van Allen Probes Observations of Symmetric Stormtime Compressional ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	7
2	Cross-scale energy cascade powered by magnetospheric convection. <i>Scientific Reports</i> , 2022, 12, 4446.	3.3	6
3	On the rate of energy deposition by an ion ring velocity beam. <i>Physics of Plasmas</i> , 2021, 28, 052102.	1.9	0
4	Lower-hybrid waves coupled to multiple heavy ion ring distributions in the SMART experiment1. , 2021, , .		0
5	Predicted Effects of Nonlinear Induced Scattering in the SMART Experiment. , 2021, , .		0
6	Particle Dynamics in the Earth's Radiation Belts: Review of Current Research and Open Questions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026735.	2.4	81
7	Comment on "Radiation-Belt Remediation Using Space-Based Antennas and Electron Beams" by Carlsten et al. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 602-603.	1.3	1
8	A forced Korteweg-de Vries model for nonlinear mixing of oscillations in a dusty plasma. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	9
9	Behavior of compressed plasmas in magnetic fields. <i>Reviews of Modern Plasma Physics</i> , 2020, 4, 12.	4.1	6
10	Early Time Evolution of Turbulence in the Space Environment by Neutral Beam Injection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027587.	2.4	8
11	Lower-hybrid wave instability due to multiple fast heavy ion ring distributions in the SMART experiment. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
12	10.1063/5.0025379.1. , 2020, , .		0
13	A New Perspective for Dipolarization Front Dynamics: Electromagnetic Effects of Velocity Inhomogeneity. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7533-7542.	2.4	3
14	Kinetic Equilibrium and Stability Analysis of Dipolarization Fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2010-2028.	2.4	11
15	Theoretical and computational predictions for the upcoming SMART experiment. , 2019, , .		0
16	Kinetic Physics of Dipolarization Fronts: Theory, Simulation, Laboratory Experiments and in situ Observations. , 2019, , .		0
17	Understanding and Harnessing the Dual Electrostatic/Electromagnetic Character of Plasma Turbulence in the Near-Earth Space Environment. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10365-10375.	2.4	11
18	Kinetic Equilibrium of Dipolarization Fronts. <i>Scientific Reports</i> , 2018, 8, 17186.	3.3	12

#	ARTICLE	IF	CITATIONS
19	Experimental observation of cnoidal waveform of nonlinear dust acoustic waves. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	24
20	Bayesian spectral analysis of chorus subelements from the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6088-6106.	2.4	23
21	Analysis of self-consistent nonlinear wave-particle interactions of whistler waves in laboratory and space plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	9
22	Analytical and numerical analysis of self-consistent whistler wave Hamiltonian. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 114002.	2.1	1
23	Electromagnetic fluctuations in the intermediate frequency range originating from a plasma boundary layer. <i>Physics of Plasmas</i> , 2017, 24, 052107.	1.9	4
24	Nonlinear Generation of Electromagnetic Waves through Induced Scattering by Thermal Plasma. <i>Scientific Reports</i> , 2016, 5, 17852.	3.3	16
25	Experimental characterization of nonlinear processes of whistler branch waves. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	17
26	Evolution of lower hybrid turbulence in the ionosphere. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	20
27	Laboratory studies of nonlinear whistler wave processes in the Van Allen radiation belts. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	17
28	Weak turbulence in radiation belts. , 2015, , .		0
29	Wave-kinetic simulations of lower-hybrid turbulence driven by velocity ring instabilities. , 2014, , .		0
30	Hypervelocity impacts of microscopic dust grains for orbital debris remediation. , 2014, , .		0
31	Active removal of orbital debris by induced hypervelocity impact of injected dust grains. , 2014, , .		1
32	Effects of neutral interactions on velocity-shear-driven plasma waves. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	3
33	Generation of electromagnetic waves in the very low frequency band by velocity gradient. <i>Physics of Plasmas</i> , 2014, 21, 012107.	1.9	8
34	Particle-in-cell simulations of lowerhybrid waves generated by an ion-ring velocity distribution. , 2014, , .		0
35	Formation and dynamics of an artificial ring of dust for active orbital debris removal. , 2013, , .		2
36	Convective amplification of electromagnetic ion cyclotron waves from ringâ€¦distribution protons in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7538-7544.	2.4	10

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37	Stabilization of an injected conducting layer for artificially enhancing drag on orbital debris. <i>Advances in Space Research</i> , 2013, 52, 1987-1992.	2.6	0
38	Weak turbulence in the magnetosphere: Formation of whistler wave cavity by nonlinear scattering. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	53
39	Co-existence of whistler waves with kinetic Alfvén wave turbulence for the high-beta solar wind plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	50
40	Active debris removal by micron-scale dust injection. , 2012, , .		1
41	Collisionless and collisional dissipation of magnetospherically reflecting whistler waves. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	5
42	Multi-pass whistler gain in a magnetospheric cavity due to induced nonlinear scattering. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	12
43	Quasilinear evolution of plasma distribution functions and consequences on wave spectrum and perpendicular ion heating in the turbulent solar wind. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	14
44	A Concept for Elimination of Small Orbital Debris. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2012, 10, Pr_23-Pr_27.	0.2	5
45	Spontaneous Electromagnetic Emission from a Strongly Localized Plasma Flow. <i>Physical Review Letters</i> , 2011, 106, 185001.	7.8	27
46	Linear and nonlinear Landau resonance of kinetic Alfvén waves: Consequences for electron distribution and wave spectrum in the solar wind. <i>Physics of Plasmas</i> , 2011, 18, 012307.	1.9	77
47	Weak turbulence theory of the nonlinear evolution of the ion ring distribution. <i>Physics of Plasmas</i> , 2011, 18, 055710.	1.9	18
48	Theory of charged particle heating by low-frequency Alfvén waves. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	20
49	Finite gyroradius theory of drift compressional modes. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	29
50	Bounce-averaged stability of compressional modes in geotail flux tubes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	25
51	Geomagnetic transport in the solar wind driven nightside magnetosphere-ionosphere system. <i>Physics of Plasmas</i> , 2002, 9, 3712-3720.	1.9	1
52	Stability properties of high-pressure geotail flux tubes. <i>Journal of Geophysical Research</i> , 2001, 106, 18803-18822.	3.3	19
53	Low frequency stability of geotail plasma. <i>Physics of Plasmas</i> , 2001, 8, 2415-2424.	1.9	20
54	The solar-wind driven magnetosphere-ionosphere as a complex dynamical system. <i>Physics of Plasmas</i> , 1999, 6, 4178-4184.	1.9	27