

Xueyi Wang

List of Publications by Year in descending order

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79
papers

1,409
citations

331670

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395702

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79
all docs

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docs citations

79
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	Two Correlations with Enhancement Near the Proton Gyroradius Scale in Solar Wind Turbulence: Parker Solar Probe (PSP) and Wind Observations. <i>Astrophysical Journal</i> , 2022, 924, 92.	4.5	5
2	Deformation of Electron Distributions Due to Landau Trapping by the Whistler-Mode Wave. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
3	Global Asymmetries of Hot Flow Anomalies. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
4	Oneâ€Dimensional gcPICâ€ Simulation of Hooked Chorus Waves in the Earthâ€™s Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
5	Gap Formation Around $0.5\hat{c}$ in the Whistler-Mode Waves Due To the Plateau-Like Shape in the Parallel Electron Distribution: 2D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	12
6	Large-Scale High-Speed Jets in Earth's Magnetosheath: Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	4
7	Observational Evidence for the Origin of Repetitive Chorus Emissions. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	14
8	Magnetic Helicity Signature and Its Role in Regulating Magnetic Energy Spectra and Proton Temperatures in the Solar Wind. <i>Astrophysical Journal</i> , 2021, 906, 123.	4.5	12
9	Structure and Coalescence of Magnetopause Flux Ropes and Their Dependence on IMF Clock Angle: Threeâ€Dimensional Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028670.	2.4	15
10	Investigation of the Interaction Between Magnetosheath Reconnection and Magnetopause Reconnection Driven by Oblique Interplanetary Tangential Discontinuity Using Threeâ€Dimensional Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028558.	2.4	2
11	Magnetotailâ€Inner Magnetosphere Transport Associated With Fast Flows Based on Combined Globalâ€Hybrid and CIMI Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028405.	2.4	6
12	Whistler-Mode Waves Trapped by Density Irregularities in the Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092305.	4.0	30
13	Statistical Study of Foreshock Transients in the Midtail Foreshock. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029156.	2.4	13
14	Global Hybrid Simulations of Interaction Between Interplanetary Rotational Discontinuity and Bow Shock/Magnetosphere: Can Ion-Scale Magnetic Reconnection be Driven by Rotational Discontinuity Downstream of Quasi-Parallel Shock?. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028853.	2.4	7
15	A Foreshock Bubble Driven by an IMF Tangential Discontinuity: 3D Global Hybrid Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093068.	4.0	16
16	Reconnection Processes of Magnetopause Flux Ropes: Threeâ€Dimensional Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029388.	2.4	9
17	3-D global hybrid simulations of magnetospheric response to foreshock processes. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	9
18	Repetitive Emissions of Rising-Tone Chorus Waves in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094979.	4.0	17

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19	Impact of Foreshock Transients on the Flank Magnetopause and Magnetosphere and the Ionosphere. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	10
20	Modulation of Magnetosonic Waves by Background Plasma Density in a Dipole Magnetic Field: 2D PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029729.	2.4	3
21	Three-Dimensional Global Hybrid Simulations of High Latitude Magnetopause Reconnection and Flux Ropes During the Northward IMF. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095003.	4.0	8
22	Particle-in-cell simulations of asymmetric reconnection driven by laser-powered capacitor coils. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 015010.	2.1	4
23	Propagation of Electromagnetic Ion Cyclotron Waves in a Dipole Magnetic Field: A 2D Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029720.	2.4	2
24	Magnetic Reconnection Inside Solar Wind Rotational Discontinuity During Its Interaction With the Quasi-Perpendicular Bow Shock and Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	3
25	Particle-in-Cell Simulation of Rising-Tone Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089671.	4.0	8
26	ARTEMIS Observations of Foreshock Transients in the Midtail Foreshock. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090393.	4.0	12
27	Magnetopause Reconnection as Influenced by the Dipole Tilt Under Southward IMF Conditions: Hybrid Simulation and MMS Observation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027795.	2.4	18
28	Observational Evidence for Solar Wind Proton Heating by Ion-Scale Turbulence. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089720.	4.0	10
29	Evolution of a Foreshock Bubble in the Midtail Foreshock and Impact on the Magnetopause: 3D Global Hybrid Simulation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089844.	4.0	19
30	Wave Normal Angle Distribution of Magnetosonic Waves in the Earth's Magnetosphere: 2D PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028012.	2.4	8
31	Particle-in-Cell Simulations of Characteristics of Rising-Tone Chorus Waves in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027961.	2.4	8
32	Kinetic Alfvén Waves From Magnetotail to the Ionosphere in Global Hybrid Simulation Associated With Fast Flows. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027062.	2.4	26
33	Turbulence-Driven Magnetic Reconnection in the Magnetosheath Downstream of a Quasi-Parallel Shock: A Three-Dimensional Global Hybrid Simulation. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085661.	4.0	27
34	Generation of kinetic Alfvén waves in dayside magnetopause reconnection: A 3-D global-scale hybrid simulation. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	9
35	Two-Dimensional gcPIC Simulation of Rising-Tone Chorus Waves in a Dipole Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4157-4167.	2.4	47
36	Interactions of plasma and guard limiter in front of lower hybrid wave antenna on EAST tokamak. <i>Nuclear Fusion</i> , 2019, 59, 056028.	3.5	4

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37	Expansion of Solar Coronal Hot Electrons in an Inhomogeneous Magnetic Field: 1D PIC Simulation. <i>Astrophysical Journal</i> , 2019, 887, 96.	4.5	6
38	Ion Acceleration Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 163-178.	2.4	30
39	Fast Magnetosonic Waves Observed by Van Allen Probes: Testing Local Wave Excitation Mechanism. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 497-512.	2.4	31
40	Two-dimensional Particle-in-cell Simulation of Magnetosonic Wave Excitation in a Dipole Magnetic Field. <i>Geophysical Research Letters</i> , 2018, 45, 8712-8720.	4.0	12
41	Magnetosheath Reconnection Before Magnetopause Reconnection Driven by Interplanetary Tangential Discontinuity: A Three-dimensional Global Hybrid Simulation With Oblique Interplanetary Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9169-9186.	2.4	12
42	Particle-in-cell simulations of magnetically driven reconnection using laser-powered capacitor coils. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	7
43	Spectral properties and associated plasma energization by magnetosonic waves in the Earth's magnetosphere: Particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5377-5390.	2.4	39
44	Formation and transport of entropy structures in the magnetotail simulated with a 3D global hybrid code. <i>Geophysical Research Letters</i> , 2017, 44, 5892-5899.	4.0	35
45	Ion acceleration and heating by kinetic Alfvén waves associated with magnetic reconnection. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	19
46	Gyrokinetic electron and fully kinetic ion simulations of fast magnetosonic waves in the magnetosphere. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	3
47	The ion temperature gradient: An intrinsic property of Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8295-8309.	2.4	9
48	Generation of rising-tone chorus in a two-dimensional mirror field by using the general curvilinear PIC code. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8154-8165.	2.4	43
49	Foreshock wave interaction with the magnetopause: Signatures of mode conversion. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7057-7076.	2.4	11
50	Hall effect control of magnetotail dawn-dusk asymmetry: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,882.	2.4	48
51	Kinetic Alfvén waves in three-dimensional magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6526-6548.	2.4	26
52	Dipolarization fronts as earthward propagating flux ropes: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6286-6300.	2.4	70
53	Evolution of flux ropes in the magnetotail: A three-dimensional global hybrid simulation. <i>Physics of Plasmas</i> , 2015, 22, 052901.	1.9	21
54	Generation of kinetic Alfvén waves in the high-latitude near-Earth magnetotail: A global hybrid simulation. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	13

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55	Investigation of storm time magnetotail and ion injection using three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7413-7432.	2.4	73
56	Gyrokinetic theory of electrostatic lower-hybrid drift instabilities in a current sheet with guide field. <i>Physics of Plasmas</i> , 2014, 21, 052104.	1.9	6
57	Simulation Study of Beam-Plasma Interaction and Associated Acceleration of Background Ions. <i>Geophysical Monograph Series</i> , 2013, , 117-123.	0.1	0
58	Global hybrid simulation of mode conversion at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6176-6187.	2.4	18
59	Generation of kinetic Alfvén waves by beam-plasma interaction in non-uniform plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	6
60	Three-Dimensional Mode Conversion Associated with Kinetic Alfvén Waves. <i>Physical Review Letters</i> , 2012, 109, 125003.	7.8	54
61	Global-scale hybrid simulation of cusp precipitating ions associated with magnetopause reconnection under southward IMF. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
62	Simulation of mode conversion at the magnetopause. <i>Science Bulletin</i> , 2012, 57, 1375-1383.	1.7	2
63	Global-scale hybrid simulation of dayside magnetic reconnection under southward IMF: Structure and evolution of reconnection. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	36
64	An improved gyrokinetic electron and fully kinetic ion particle simulation scheme: benchmark with a linear tearing mode. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 054013.	2.1	22
65	Investigation of tearing instability using GeFi particle simulation model. <i>Physics of Plasmas</i> , 2011, 18, 122102.	1.9	11
66	Three-dimensional hybrid simulation of magnetosheath reconnection under northward and southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
67	Hybrid simulation of mode conversion at the magnetopause. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	32
68	Hybrid simulation of foreshock waves and ion spectra and their linkage to cusp energetic ions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	12
69	Theory and simulation of lower-hybrid drift instability for current sheet with guide field. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	17
70	A particle simulation of current sheet instabilities under finite guide field. <i>Physics of Plasmas</i> , 2008, 15, 072103.	1.9	22
71	Connection between bow shock and cusp energetic ions. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	9
72	Formation of dayside low-latitude boundary layer under northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	10

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73	Generation of filamentary structures by beam-plasma interaction. <i>Physics of Plasmas</i> , 2006, 13, 052102.	1.9	11
74	3-D Hybrid Simulation of Quasi-Parallel Bow Shock and Its Effects on the Magnetosphere. <i>AIP Conference Proceedings</i> , 2005, . .	0.4	1
75	A gyrokinetic electron and fully kinetic ion plasma simulation model. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, 657-669.	2.1	43
76	Three-dimensional global hybrid simulation of dayside dynamics associated with the quasi-parallel bow shock. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	91
77	Generation of nonlinear Alfvén and magnetosonic waves by beam-plasma interaction. <i>Physics of Plasmas</i> , 2003, 10, 3528-3538.	1.9	40
78	Simulation of ion velocity distributions in the magnetosheath. <i>Geophysical Research Letters</i> , 2002, 29, 32-1-32-4.	4.0	3
79	Kinetic Alfvén waves driven by velocity shear. <i>Physics of Plasmas</i> , 1998, 5, 836-840.	1.9	19