Xueyi Wang

List of Publications by Year
in descending order

79 papers	1,409 citations	331670 21 h-index	395702 33 g-index
79 all docs	79 docs citations	79 times ranked	969 citing authors

#	Article	IF	Citations
1	Three-dimensional global hybrid simulation of dayside dynamics associated with the quasi-parallel bow shock. Journal of Geophysical Research, 2005, 110, .	3.3	91
2	Investigation of storm time magnetotail and ion injection using threeâ€dimensional global hybrid simulation. Journal of Geophysical Research: Space Physics, 2014, 119, 7413-7432.	2.4	73
3	Dipolarization fronts as earthward propagating flux ropes: A threeâ€dimensional global hybrid simulation. Journal of Geophysical Research: Space Physics, 2015, 120, 6286-6300.	2.4	70
4	Three-Dimensional Mode Conversion Associated with Kinetic AlfvÃ©n Waves. Physical Review Letters, 2012, 109, 125003.	7.8	54
5	Hall effect control of magnetotail dawnâ€dusk asymmetry: A threeâ€dimensional global hybrid simulation. Journal of Geophysical Research: Space Physics, 2016, 121, 11,882.	2.4	48
6	Twoâ€Dimensional gcPIC Simulation of Risingâ€Tone Chorus Waves in a Dipole Magnetic Field. Journal of Geophysical Research: Space Physics, 2019, 124, 4157-4167.	2.4	47
7	A gyrokinetic electron and fully kinetic ion plasma simulation model. Plasma Physics and Controlled Fusion, 2005, 47, 657-669.	2.1	43
8	Generation of risingâ€tone chorus in a twoâ€dimensional mirror field by using the general curvilinear PIC code. Journal of Geophysical Research: Space Physics, 2017, 122, 8154-8165.	2.4	43
9	Generation of nonlinear AlfvÃ©n and magnetosonic waves by beamâ€“plasma interaction. Physics of Plasmas, 2003, 10, 3528-3538.	1.9	40
10	Spectral properties and associated plasma energization by magnetosonic waves in the Earth's magnetosphere: Particleâ€inâ€cell simulations. Journal of Geophysical Research: Space Physics, 2017, 122, 5377-5390.	2.4	39
11	Global-scale hybrid simulation of dayside magnetic reconnection under southward IMF: Structure and evolution of reconnection. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	36
12	Formation and transport of entropy structures in the magnetotail simulated with a 3â€D global hybrid code. Geophysical Research Letters, 2017, 44, 5892-5899.	4.0	35
13	Hybrid simulation of mode conversion at the magnetopause. Journal of Geophysical Research, 2010, 115, .	3.3	32
14	Fast Magnetosonic Waves Observed by Van Allen Probes: Testing Local Wave Excitation Mechanism. Journal of Geophysical Research: Space Physics, 2018, 123, 497-512.	2.4	31
15	Ion Acceleration Inside Foreshock Transients. Journal of Geophysical Research: Space Physics, 2018, 123, 163-178.	2.4	30
16	Whistlerâ€Mode Waves Trapped by Density Irregularities in the Earth's Magnetosphere. Geophysical Research Letters, 2021, 48, e2020GL092305.	4.0	30
17	Turbulenceâ€Driven Magnetic Reconnection in the Magnetosheath Downstream of a Quasiâ€Parallel Shock: A Threeâ€Dimensional Global Hybrid Simulation. Geophysical Research Letters, 2020, 47, e2019GL085661.	4.0	27
18	Kinetic AlfvÃ©n waves in threeâ€dimensional magnetic reconnection. Journal of Geophysical Research: Space Physics, 2016, 121, 6526-6548.	2.4	26

#	Article	IF	Citations
19	Kinetic AlfvÃ©n Waves From Magnetotail to the Ionosphere in Global Hybrid Simulation Associated With Fast Flows. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027062.	2.4	26
20	A particle simulation of current sheet instabilities under finite guide field. Physics of Plasmas, 2008, 15, 072103.	1.9	22
21	An improved gyrokinetic electron and fully kinetic ion particle simulation scheme: benchmark with a linear tearing mode. Plasma Physics and Controlled Fusion, 2011, 53, 054013.	2.1	22
22	Evolution of flux ropes in the magnetotail: A three-dimensional global hybrid simulation. Physics of Plasmas, 2015, 22, 052901.	1.9	21
23	Kinetic AlfvÃ©n waves driven by velocity shear. Physics of Plasmas, 1998, 5, 836-840.	1.9	19
24	Ion acceleration and heating by kinetic AlfvÃ©n waves associated with magnetic reconnection. Physics of Plasmas, 2017, 24, .	1.9	19
25	Evolution of a Foreshock Bubble in the Midtail Foreshock and Impact on the Magnetopause: 3â€Ð Global Hybrid Simulation. Geophysical Research Letters, 2020, 47, e2020GL089844.	4.0	19
26	Global hybrid simulation of mode conversion at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2013, 118, 6176-6187.	2.4	18
27	Magnetopause Reconnection as Influenced by the Dipole Tilt Under Southward IMF Conditions: Hybrid Simulation and MMS Observation. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027795.	2.4	18
28	Theory and simulation of lower-hybrid drift instability for current sheet with guide field. Physics of Plasmas, 2008, 15, .	1.9	17
29	Repetitive Emissions of Risingâ€Tone Chorus Waves in the Inner Magnetosphere. Geophysical Research Letters, 2021, 48, e2021GL094979.	4.0	17
30	A Foreshock Bubble Driven by an IMF Tangential Discontinuity: 3D Global Hybrid Simulation. Geophysical Research Letters, 2021, 48, e2021GL093068.	4.0	16
31	Structure and Coalescence of Magnetopause Flux Ropes and Their Dependence on IMF Clock Angle: Threeâ€Dimensional Global Hybrid Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028670.	2.4	15
32	Observational Evidence for the Origin of Repetitive Chorus Emissions. Geophysical Research Letters, 2022, 49, .	4.0	14
33	Generation of kinetic Alfven waves in the high-latitude near-Earth magnetotail: A global hybrid simulation. Physics of Plasmas, 2015, 22, .	1.9	13
34	Statistical Study of Foreshock Transients in the Midtail Foreshock. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029156.	2.4	13
35	Hybrid simulation of foreshock waves and ion spectra and their linkage to cusp energetic ions. Journal of Geophysical Research, 2009, 114, .	3.3	12
36	Twoâ€Dimensional Particleâ€inâ€Cell Simulation of Magnetosonic Wave Excitation in a Dipole Magnetic Field. Geophysical Research Letters, 2018, 45, 8712-8720.	4.0	12

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37	Magnetosheath Reconnection Before Magnetopause Reconnection Driven by Interplanetary Tangential Discontinuity: A Threeâ€Dimensional Global Hybrid Simulation With Oblique Interplanetary Magnetic Field. Journal of Geophysical Research: Space Physics, 2018, 123, 9169-9186.	2.4	12
38	ARTEMIS Observations of Foreshock Transients in the Midtail Foreshock. Geophysical Research Letters, 2020, 47, e2020GL090393.	4.0	12
39	Magnetic Helicity Signature and Its Role in Regulating Magnetic Energy Spectra and Proton Temperatures in the Solar Wind. Astrophysical Journal, 2021, 906, 123.	4.5	12
40	Gap Formation Around 0.5Î©_e in the Whistlerâ€Mode Waves Due To the Plateauâ€Like Shape in the Parallel Electron Distribution: 2D PIC Simulations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	12
41	Generation of filamentary structures by beam-plasma interaction. Physics of Plasmas, 2006, 13, 052102.	1.9	11
42	Threeâ€dimensional hybrid simulation of magnetosheath reconnection under northward and southward interplanetary magnetic field. Journal of Geophysical Research, 2010, 115, .	3.3	11
43	Investigation of tearing instability using GeFi particle simulation model. Physics of Plasmas, 2011, 18, 122102.	1.9	11
44	Foreshock wave interaction with the magnetopause: Signatures of mode conversion. Journal of Geophysical Research: Space Physics, 2017, 122, 7057-7076.	2.4	11
45	Formation of dayside low-latitude boundary layer under northward interplanetary magnetic field. Geophysical Research Letters, 2006, 33, .	4.0	10
46	Globalâ€scale hybrid simulation of cusp precipitating ions associated with magnetopause reconnection under southward IMF. Journal of Geophysical Research, 2012, 117, .	3.3	10
47	Observational Evidence for Solar Wind Proton Heating by Ionâ€Scale Turbulence. Geophysical Research Letters, 2020, 47, e2020GL089720.	4.0	10
48	Impact of Foreshock Transients on the Flank Magnetopause and Magnetosphere and the Ionosphere. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	10
49	Connection between bow shock and cusp energetic ions. Geophysical Research Letters, 2007, 34, .	4.0	9
50	The ion temperature gradient: An intrinsic property of Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2017, 122, 8295-8309.	2.4	9
51	Generation of kinetic AlfvÃ©n waves in dayside magnetopause reconnection: A 3-D global-scale hybrid simulation. Physics of Plasmas, 2019, 26, .	1.9	9
52	Reâ€Reconnection Processes of Magnetopause Flux Ropes: Threeâ€Dimensional Global Hybrid Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029388.	2.4	9
53	3-D global hybrid simulations of magnetospheric response to foreshock processes. Earth, Planets and Space, 2021, 73, .	2.5	9
54	Oneâ€Dimensional gcPICâ€Îf Simulation of Hooked Chorus Waves in the Earthâ€™s Inner Magnetosphere. Geophysical Research Letters, 2022, 49, .	4.0	9

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55	Particleâ€inâ€Cell Simulation of Risingâ€Tone Magnetosonic Waves. Geophysical Research Letters, 2020, 47, e2020GL089671.	4.0	8
56	Wave Normal Angle Distribution of Magnetosonic Waves in the Earth's Magnetosphere: 2â€D <scp>PIC</scp> Simulation. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028012.	2.4	8
57	Particleâ€inâ€Cell Simulations of Characteristics of Risingâ€Tone Chorus Waves in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027961.	2.4	8
58	Threeâ€Dimensional Global Hybrid Simulations of High Latitude Magnetopause Reconnection and Flux Ropes During the Northward IMF. Geophysical Research Letters, 2021, 48, e2021GL095003.	4.0	8
59	Particle-in-cell simulations of magnetically driven reconnection using laser-powered capacitor coils. Physics of Plasmas, 2018, 25, .	1.9	7
60	Global Hybrid Simulations of Interaction Between Interplanetary Rotational Discontinuity and Bow Shock/Magnetosphere: Can Ionâ€Scale Magnetic Reconnection be Driven by Rotational Discontinuity Downstream of Quasiâ€Parallel Shock?. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028853.	2.4	7
61	Global Asymmetries of Hot Flow Anomalies. Geophysical Research Letters, 2022, 49, .	4.0	7
62	Generation of kinetic AlfvÃ©n waves by beam-plasma interaction in non-uniform plasma. Physics of Plasmas, 2012, 19, .	1.9	6
63	Gyrokinetic theory of electrostatic lower-hybrid drift instabilities in a current sheet with guide field. Physics of Plasmas, 2014, 21, 052104.	1.9	6
64	Expansion of Solar Coronal Hot Electrons in an Inhomogeneous Magnetic Field: 1D PIC Simulation. Astrophysical Journal, 2019, 887, 96.	4.5	6
65	Magnetotailâ€Inner Magnetosphere Transport Associated With Fast Flows Based on Combined Globalâ€Hybrid and CIMI Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028405.	2.4	6
66	Two Correlations with Enhancement Near the Proton Gyroradius Scale in Solar Wind Turbulence: Parker Solar Probe (PSP) and Wind Observations. Astrophysical Journal, 2022, 924, 92.	4.5	5
67	Interactions of plasma and guard limiter in front of lower hybrid wave antenna on EAST tokamak. Nuclear Fusion, 2019, 59, 056028.	3.5	4
68	Particle-in-cell simulations of asymmetric reconnection driven by laser-powered capacitor coils. Plasma Physics and Controlled Fusion, 2021, 63, 015010.	2.1	4
69	Largeâ€Scale Highâ€Speed Jets in Earth's Magnetosheath: Global Hybrid Simulations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
70	Simulation of ion velocity distributions in the magnetosheath. Geophysical Research Letters, 2002, 29, 32-1-32-4.	4.0	3
71	Gyrokinetic electron and fully kinetic ion simulations of fast magnetosonic waves in the magnetosphere. Physics of Plasmas, 2017, 24, .	1.9	3
72	Modulation of Magnetosonic Waves by Background Plasma Density in a Dipole Magnetic Field: 2â€D PIC Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029729.	2.4	3

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73	Magnetic Reconnection Inside Solar Wind Rotational Discontinuity During Its Interaction With the Quasiâ€Perpendicular Bow Shock and Magnetosheath. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	3
74	Simulation of mode conversion at the magnetopause. Science Bulletin, 2012, 57, 1375-1383.	1.7	2
75	Investigation of the Interaction Between Magnetosheath Reconnection and Magnetopause Reconnection Driven by Oblique Interplanetary Tangential Discontinuity Using Threeâ€Dimensional Global Hybrid Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028558.	2.4	2
76	Propagation of Electromagnetic Ion Cyclotron Waves in a Dipole Magnetic Field: A 2â€D Hybrid Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029720.	2.4	2
77	Deformation of Electron Distributions Due to Landau Trapping by the Whistlerâ€Mode Wave. Geophysical Research Letters, 2022, 49, .	4.0	2
78	3-D Hybrid Simulation of Quasi-Parallel Bow Shock and Its Effects on the Magnetosphere. AIP Conference Proceedings, 2005, , .	0.4	1
79	Simulation Study of Beam-Plasma Interaction and Associated Acceleration of Background Ions. Geophysical Monograph Series, 2013, , 117-123.	0.1	0