

Xinliang Gao

List of Publications by Year in descending order

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77
papers

1,322
citations

304743

22
h-index

434195

31
g-index

77
all docs

77
docs citations

77
times ranked

787
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of multiband chorus by lower band cascade in the Earth's magnetosphere. <i>Geophysical Research Letters</i> , 2016, 43, 2343-2350.	4.0	62
2	New evidence for generation mechanisms of discrete and hiss-like whistler mode waves. <i>Geophysical Research Letters</i> , 2014, 41, 4805-4811.	4.0	58
3	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
4	Generation of Multiband Chorus in the Earth's Magnetosphere: 1D PIC Simulation. <i>Geophysical Research Letters</i> , 2017, 44, 618-624.	4.0	44
5	The effect of different solar wind parameters upon significant relativistic electron flux dropouts in the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4324-4337.	2.4	43
6	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
7	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
8	Statistical results describing the bandwidth and coherence coefficient of whistler mode waves using THEMIS waveform data. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8992-9003.	2.4	35
9	Generation of magnetosonic waves over a continuous spectrum. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1137-1147.	2.4	33
10	A parametric study for the generation of ion Bernstein modes from a discrete spectrum to a continuous one in the inner magnetosphere. II. Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	32
11	Reformation of rippled quasi-parallel shocks: 2D hybrid simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6385-6396.	2.4	32
12	Statistical Results of the Power Gap Between Lower-Band and Upper-Band Chorus Waves. <i>Geophysical Research Letters</i> , 2019, 46, 4098-4105.	4.0	32
13	ION DYNAMICS AT A RIPPLED QUASI-PARALLEL SHOCK: 2D HYBRID SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 823, 7.	4.5	31
14	Whistler-Mode Waves Trapped by Density Irregularities in the Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092305.	4.0	30
15	Particle acceleration and generation of diffuse superthermal ions at a quasi-parallel collisionless shock: Hybrid simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29
16	Observational evidence of generation mechanisms for very oblique lower band chorus using THEMIS waveform data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6732-6748.	2.4	28
17	Lower-Band α -Monochromatic-Chorus Riser Subelement/Wave Packet Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028090.	2.4	28
18	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

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19	Transmission of large-amplitude ULF waves through a quasi-parallel shock at Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 237-245.	2.4	26
20	In Situ Observations of Whistler-Mode Chorus Waves Guided by Density Ducts. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028814.	2.4	26
21	In Situ Observations of Harmonic Alfvén Waves and Associated Heavy Ion Heating. <i>Astrophysical Journal</i> , 2018, 859, 120.	4.5	24
22	Parametric instability of a monochromatic Alfvén wave: Perpendicular decay in low beta plasma. <i>Physics of Plasmas</i> , 2013, 20, 072902.	1.9	23
23	The shape of the Venusian bow shock at solar minimum and maximum: Revisit based on VEX observations. <i>Planetary and Space Science</i> , 2015, 109-110, 32-37.	1.7	23
24	A parametric study for the generation of ion Bernstein modes from a discrete spectrum to a continuous one in the inner magnetosphere. I. Linear theory. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	22
25	First report of resonant interactions between whistler mode waves in the Earth's magnetosphere. <i>Geophysical Research Letters</i> , 2017, 44, 5269-5275.	4.0	22
26	Statistical Evidence for EMIC Wave Excitation Driven by Substorm Injection and Enhanced Solar Wind Pressure in the Earth's Magnetosphere: Two Different EMIC Wave Sources. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090275.	4.0	22
27	Analyzing EMIC Waves in the Inner Magnetosphere Using Long-Term Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7402-7412.	2.4	20
28	Ion dynamics at supercritical quasi-parallel shocks: Hybrid simulations. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	18
29	He ²⁺ dynamics and ion cyclotron waves in the downstream of quasi-perpendicular shocks: 2D hybrid simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3225-3236.	2.4	18
30	Lower Band Cascade of Whistler Waves Excited by Anisotropic Hot Electrons: One-Dimensional PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,448.	2.4	18
31	A statistical study of the spatial distribution and source-region size of chorus waves using Van Allen Probes data. <i>Annales Geophysicae</i> , 2018, 36, 867-878.	1.6	18
32	Gap Formation Around 0.5 _{ie} of Whistler-Mode Waves Excited by Electron Temperature Anisotropy. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028631.	2.4	18
33	Repetitive Emissions of Rising-Tone Chorus Waves in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094979.	4.0	17
34	Unraveling the Correlation Between Chorus Wave and Electron Beam-Like Distribution in the Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2019, 46, 11671-11678.	4.0	16
35	Electrostatic and electromagnetic fluctuations detected inside magnetic flux ropes during magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9473-9482.	2.4	15
36	Parametric decay of a parallel propagating monochromatic whistler wave: Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2017, 24, 012108.	1.9	15

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37	Statistical Results of Multiband Chorus by Using THEMIS Waveform Data. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5506-5515.	2.4	14
38	Generation of Lower Harmonic Magnetosonic Waves Through Nonlinear Wave-Wave Interactions. <i>Geophysical Research Letters</i> , 2018, 45, 8029-8034.	4.0	14
39	Observational Evidence for the Origin of Repetitive Chorus Emissions. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	14
40	ION DYNAMICS DURING THE PARAMETRIC INSTABILITIES OF A LEFT-HAND POLARIZED ALFVÉN WAVE IN A PROTON-ELECTRON-ALPHA PLASMA. <i>Astrophysical Journal</i> , 2014, 780, 56.	4.5	13
41	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
42	Generation of harmonic Alfvén waves and its implications to heavy ion heating in the solar corona: Hybrid simulations. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12
43	Gap Formation Around $0.5\omega_{pe}$ 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
44	Effects of alpha beam on the parametric decay of a parallel propagating circularly polarized Alfvén wave: Hybrid simulations. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	11
45	ELECTROMAGNETIC PROTON/PROTON INSTABILITY AND ITS IMPLICATIONS FOR ION HEATING IN THE EXTENDED FAST SOLAR WIND. <i>Astrophysical Journal</i> , 2013, 764, 71.	4.5	11
46	Observational Evidence for Whistler Mode Waves Guided/Ducted by the Inner and Outer Edges of the Plasmapause. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092652.	4.0	11
47	Magnetic ramp scale at supercritical perpendicular collisionless shocks: Full particle electromagnetic simulations. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	10
48	Heating of the background plasma by obliquely propagating Alfvén waves excited in the electromagnetic alpha/proton instability. <i>Physics of Plasmas</i> , 2012, 19, 032901.	1.9	9
49	The Effects of Thermal Electrons on Whistler Mode Waves Excited by Anisotropic Hot Electrons: Linear Theory and 2D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5234-5245.	2.4	9
50	MMS Observations of Broadband Electrostatic Waves in Electron Diffusion Region of Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028882.	2.4	9
51	One-Dimensional gcPIC Simulation of Hooked Chorus Waves in the Earth's Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
52	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
53	Particle-in-Cell Simulations of Electrostatic Solitary Waves in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029290.	2.4	8
54	Simultaneous Observation of Whistler Waves and Electron Cyclotron Harmonic Waves in the Separatrix Region of Magnetopause Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029609.	2.4	8

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55	PIC Simulations of Microinstabilities and Waves at Near-Sun Solar Wind Perpendicular Shocks: Predictions for Parker Solar Probe and Solar Orbiter. <i>Astrophysical Journal Letters</i> , 2020, 900, L24.	8.3	8
56	Theoretical analysis on lower band cascade as a mechanism for multiband chorus in the Earth's magnetosphere. <i>AIP Advances</i> , 2018, 8, .	1.3	7
57	Two-band whistler-mode waves excited by an electron bi-Maxwellian distribution plus parallel beams. <i>AIP Advances</i> , 2020, 10, 125010.	1.3	7
58	Heating via parametric instabilities of parallel propagating Alfvén waves with an incoherent spectrum. <i>Astrophysical Journal</i> , 2016, 827, 64.	4.5	6
59	Nonlinear Evolution of Counter-propagating Whistler Mode Waves Excited by Anisotropic Electrons Within the Equatorial Source Region: 1D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1200-1207.	2.4	6
60	Two-dimensional Hybrid Simulations of Filamentary Structures and Kinetic Slow Waves Downstream of a Quasi-parallel Shock. <i>Astrophysical Journal</i> , 2018, 861, 57.	4.5	6
61	Expansion of Solar Coronal Hot Electrons in an Inhomogeneous Magnetic Field: 1D PIC Simulation. <i>Astrophysical Journal</i> , 2019, 887, 96.	4.5	6
62	The Efficiency of Ion Stochastic Heating by a Monochromatic Obliquely Propagating Low-Frequency Alfvén Wave. <i>Plasma Science and Technology</i> , 2014, 16, 919-923.	1.5	5
63	Nonlinear Wave-Wave Coupling Related to Whistler-mode and Electron Bernstein Waves Observed by the Parker Solar Probe. <i>Astrophysical Journal</i> , 2021, 918, 26.	4.5	5
64	The Correlation between Whistler Mode Waves and Electron Beam-like Distribution: Test particle simulations and THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029834.	2.4	5
65	Parametric decay of oblique whistler waves in the Earth's magnetosphere: 2-D PIC simulations. <i>Physics of Plasmas</i> , 2018, 25, 072901.	1.9	4
66	Dissipation and reformation of thermal fronts in solar flares. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	4
67	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
68	Dynamics of charged particles and perpendicular diffusion in turbulent magnetic field. <i>Astrophysics and Space Science</i> , 2011, 335, 399-403.	1.4	3
69	Comparison between magnetic coplanarity and MVA methods in determining the normal of Venusian bow shock. <i>Science Bulletin</i> , 2013, 58, 2469-2472.	1.7	3
70	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
71	Ion stochastic heating by obliquely propagating magnetosonic waves. <i>Physics of Plasmas</i> , 2012, 19, 062111.	1.9	2
72	In situ evidence of resonant interactions between energetic electrons and whistler waves in magnetopause reconnection. <i>Earth and Planetary Physics</i> , 2019, 3, 1-7.	1.1	2

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73	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
74	Deformation of Electron Distributions Due to Landau Trapping by the Whistler-Mode Wave. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
75	Electrostatic Solitary Waves and Electron-beam Instabilities in the Separatrix Region of Magnetic Reconnection. <i>Astrophysical Journal</i> , 2022, 933, 67.	4.5	2
76	The effects of beam proportion on electromagnetic proton/proton instability and associated ion heating: 2D hybrid simulation. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	1
77	Electron Acceleration by Moderate-Mach-number Low- β^2 Shocks: Particle-in-Cell Simulations. <i>Astrophysical Journal</i> , 2022, 930, 155.	4.5	1