

Kaijun Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,211

citations

21

h-index

32

g-index

68

ext. papers

1,373

ext. citations

3.5

avg, IF

4.61

L-index

#	Paper	IF	Citations
62	Van Allen Probes Observations of Oxygen Ion Cyclotron Harmonic Waves: Statistical Study. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
61	Particle-in-cell simulations of high-frequency waves driven by pickup ion ring-beam distributions in the outer heliosheath. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 512, 4291-4297	4.3	0
60	Quasilinear Diffusion of Protons by Equatorial Magnetosonic Waves at Quasi-Perpendicular Propagation: Comparison With the Test-Particle Approach. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029767	2.6	
59	Stability analysis of the pickup ion ring-beam distributions in the outer heliosheath. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 506, 3662-3668	4.3	2
58	Investigation on unexpected variations of differential phase delay of ChangE-3. <i>Advances in Space Research</i> , 2021 , 68, 4088-4088	2.4	0
57	Unusual high frequency EMIC waves: Detailed analysis of EMIC wave excitation and energy coupling between EMIC and magnetosonic waves. <i>Advances in Space Research</i> , 2021 , 69, 35-35	2.4	1
56	Rock Fragments in Shallow Lunar Regolith: Constraints by the Lunar Penetrating Radar Onboard the Chang'E-4 Mission. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006917	4.1	2
55	Simulation of the Scattering of Continuously Injected Pickup Ions outside the Heliopause. <i>Astrophysical Journal</i> , 2021 , 922, 271	4.7	1
54	Particle-in-Cell Simulation of Electron Cyclotron Harmonic Waves Driven by a Loss Cone Distribution. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087649	4.9	7
53	Mirror Instability Driven by Pickup Ions in the Outer Heliosheath. <i>Astrophysical Journal</i> , 2020 , 901, 167	4.7	4
52	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020 , 11, 141	17.4	14
51	Two-Dimensional Hybrid Particle-in-Cell Simulations of Magnetosonic Waves in the Dipole Magnetic Field: On a Constant L-Shell. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028414	2.6	4
50	Excitation of Oxygen Ion Cyclotron Harmonic Waves in the Inner Magnetosphere: Hybrid Simulations. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090575	4.9	5
49	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	2.6	31
48	Equatorial Propagation of the Magnetosonic Mode Across the Plasmopause: 2-D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4424-4444	2.6	6
47	Pitch Angle Scattering of Sub-MeV Relativistic Electrons by Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5610-5626	2.6	26
46	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	2.6	24

45	Contributions of Mirror and Ion Bernstein Instabilities to the Scattering of Pickup Ions in the Outer Heliosheath. <i>Astrophysical Journal</i> , 2018 , 852, 39	4.7	12
44	Test-Particle Simulations of Linear and Nonlinear Interactions Between a 2-D Whistler-Mode Wave Packet and Radiation Belt Electrons. <i>Geophysical Research Letters</i> , 2018 , 45, 5234-5245	4.9	7
43	Statistical Distributions of Dayside ECH Waves Observed by MMS. <i>Geophysical Research Letters</i> , 2018 , 45, 12,730	4.9	8
42	Equatorial Evolution of the Fast Magnetosonic Mode in the Source Region: Observation-Simulation Comparison of the Preferential Propagation Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9532-9544	2.6	7
41	Particle-in-Cell Simulations of the Fast Magnetosonic Mode in a Dipole Magnetic Field: 1-D Along the Radial Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7424-7440	2.6	5
40	Ion Bernstein instability as a possible source for oxygen ion cyclotron harmonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5449-5465	2.6	12
39	Scalings for the Alfvén-cyclotron instability: Linear dispersion theory and hybrid particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 464-474	2.6	6
38	Gyrokinetic electron and fully kinetic ion simulations of fast magnetosonic waves in the magnetosphere. <i>Physics of Plasmas</i> , 2017 , 24, 062901	2.1	2
37	Proton velocity ring-driven instabilities and their dependence on the ring speed: Linear theory. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7891-7906	2.6	9
36	Ring/Shell Ion Distributions at Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 12,055-12,071	2.6	11
35	Scalings of Alfvén-cyclotron and ion Bernstein instabilities on temperature anisotropy of a ring-like velocity distribution in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2185-2193	2.6	27
34	Proton velocity ring-driven instabilities in the inner magnetosphere: Linear theory and particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 475-491	2.6	24
33	Understanding the growth rate patterns of ion Bernstein instabilities driven by ring-like proton velocity distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3036-3049	2.6	15
32	Ion Bernstein instability dependence on the proton-to-electron mass ratio: Linear dispersion theory. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6692-6710	2.6	7
31	Study of EMIC wave excitation using direct ion measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2702-2719	2.6	29
30	Fast magnetosonic waves driven by shell velocity distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2739-2753	2.6	22
29	Regime transition of ion Bernstein instability driven by ion shell velocity distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8448-8454	2.6	13
28	One- and two-dimensional hybrid simulations of whistler mode waves in a dipole field. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1908-1923	2.6	5

27	Signatures of electron Landau resonant interactions with chorus waves from THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5551-5560	2.6	16
26	Whistler anisotropy instabilities as the source of banded chorus: Van Allen Probes observations and particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8288-8298	2.6	77
25	Modeling the loss of inner belt protons by magnetic field line curvature scattering. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5638-5650	2.6	5
24	Particle-in-cell simulations of velocity scattering of an anisotropic electron beam by electrostatic and electromagnetic instabilities. <i>Physics of Plasmas</i> , 2014 , 21, 042108	2.1	7
23	ANALYTIC MODEL OF THE IBEX RIBBON WITH NEUTRAL SOLAR WIND BASED ION PICKUP BEYOND THE HELIOPAUSE. <i>Astrophysical Journal</i> , 2013 , 766, 129	4.7	48
22	Pickup proton instabilities and scattering in the distant solar wind and the outer heliosheath: Hybrid simulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		23
21	Whistler anisotropy instability with a cold electron component: Linear theory. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		16
20	Relativistic electron scattering by large amplitude electromagnetic ion cyclotron waves: The role of phase bunching and trapping. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
19	Alfvén-cyclotron instability with singly ionized helium: Linear theory. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
18	Excitation of magnetosonic waves in the terrestrial magnetosphere: Particle-in-cell simulations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		85
17	Comparison of quasilinear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	54
16	Excitation of banded whistler waves in the magnetosphere. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a		37
15	Bernstein instability driven by suprathermal protons in the ring current. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		20
14	Whistler anisotropy instability at low electron β : Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2011 , 18, 082902	2.1	49
13	Relativistic electron scattering by electromagnetic ion cyclotron fluctuations: Test particle simulations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		41
12	Spectral properties of the Alfvén cyclotron instability: Applications to relativistic electron scattering. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		7
11	Hybrid simulations of the termination shock: Suprathermal ion velocity distributions in the heliosheath. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		22
10	Heliosheath fluctuations near the perpendicular termination shock: Two-dimensional hybrid simulations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		2

9	Ion Bernstein instability in the terrestrial magnetosphere: Linear dispersion theory. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		68
8	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010 , 206, 139-151	3.8	92
7	Oxygen ion escape at Mars in a hybrid model: High energy and low energy ions. <i>Icarus</i> , 2010 , 206, 152-163	3.8	49
6	Hybrid simulations of the O ⁺ ion escape from Venus: Influence of the solar wind density and the IMF x component. <i>Advances in Space Research</i> , 2009 , 43, 1436-1441	2.4	14
5	Stochastic analysis of pitch angle scattering of charged particles by transverse magnetic waves. <i>Physics of Plasmas</i> , 2009 , 16, 112306	2.1	9
4	Particle energization by oblique inertial Alfvén waves in the auroral region. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		46
3	Particle-in-cell simulations of current shear-driven instabilities and the generation of broadband ELF fluctuations. <i>Journal of Geophysical Research</i> , 2006 , 111,		9
2	SIERRA observations of Alfvénic processes in the topside auroral ionosphere. <i>Journal of Geophysical Research</i> , 2005 , 110,		19
1	Hybrid simulations of the ring-beam instabilities driven by the pickup ions in the outer heliosheath. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	1