

# Kaijun Liu

## List of Publications by Year in descending order

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62  
papers

1,570  
citations

257357

24  
h-index

315616

38  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1099  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010, 206, 139-151.	1.1	108
2	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.	0.8	101
3	Excitation of magnetosonic waves in the terrestrial magnetosphere: Particle-in-cell simulations. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	94
4	Ion Bernstein instability in the terrestrial magnetosphere: Linear dispersion theory. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	74
5	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.	1.5	63
6	Oxygen ion escape at Mars in a hybrid model: High energy and low energy ions. <i>Icarus</i> , 2010, 206, 152-163.	1.1	59
7	Relativistic electron scattering by electromagnetic ion cyclotron fluctuations: Test particle simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
8	Whistler anisotropy instability at low electron $\beta^2$ : Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	56
9	ANALYTIC MODEL OF THE IBEX RIBBON WITH NEUTRAL SOLAR WIND BASED ION PICKUP BEYOND THE HELIOPAUSE. <i>Astrophysical Journal</i> , 2013, 766, 129.	1.6	51
10	Particle energization by oblique inertial Alfvén waves in the auroral region. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	50
11	Excitation of banded whistler waves in the magnetosphere. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	48
12	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.	0.8	47
13	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, .	3.3	42
14	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.	0.8	41
15	Study of EMIC wave excitation using direct ion measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2702-2719.	0.8	38
16	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.	0.8	32
17	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.	0.8	31
18	Pickup proton instabilities and scattering in the distant solar wind and the outer heliosheath: Hybrid simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29

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19	Proton velocity ring-driven instabilities in the inner magnetosphere: Linear theory and particle-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 475-491.	0.8	29
20	Alfvén-cyclotron instability with singly ionized helium: Linear theory. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
21	Fast magnetosonic waves driven by shell velocity distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2739-2753.	0.8	26
22	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	5.8	26
23	SIERRA observations of Alfvénic processes in the topside auroral ionosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	25
24	Hybrid simulations of the termination shock: Suprathermal ion velocity distributions in the heliosheath. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
25	Bernstein instability driven by suprathermal protons in the ring current. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	24
26	Signatures of electron Landau resonant interactions with chorus waves from THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5551-5560.	0.8	22
27	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.	0.8	22
28	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.	0.8	20
29	Whistler anisotropy instability with a cold electron component: Linear theory. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
30	Contributions of Mirror and Ion Bernstein Instabilities to the Scattering of Pickup Ions in the Outer Heliosheath. <i>Astrophysical Journal</i> , 2018, 852, 39.	1.6	18
31	Regime transition of ion Bernstein instability driven by ion shell velocity distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8448-8454.	0.8	17
32	Hybrid simulations of the O <sup>+</sup> 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.	1.2	16
33	Statistical Distributions of Dayside ECH Waves Observed by MMS. <i>Geophysical Research Letters</i> , 2018, 45, 12,730.	1.5	16
34	Ring/Shell Ion Distributions at Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,055.	0.8	14
35	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> , 2022, 69, 35-47.	1.2	13
36	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.	1.5	13

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37	Stochastic analysis of pitch angle scattering of charged particles by transverse magnetic waves. <i>Physics of Plasmas</i> , 2009, 16, 112306.	0.7	12
38	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.	0.8	12
39	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.	0.8	11
40	Particle-in-Cell Simulation of Electron Cyclotron Harmonic Waves Driven by a Loss Cone Distribution. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087649.	1.5	11
41	Mirror Instability Driven by Pickup Ions in the Outer Heliosheath. <i>Astrophysical Journal</i> , 2020, 901, 167.	1.6	11
42	Particle-in-cell simulations of current shear-driven instabilities and the generation of broadband ELF fluctuations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
43	Excitation of Oxygen Ion Cyclotron Harmonic Waves in the Inner Magnetosphere: Hybrid Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090575.	1.5	10
44	Equatorial Propagation of the Magnetosonic Mode Across the Plasmopause: 2D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4424-4444.	0.8	9
45	Particle-in-cell simulations of velocity scattering of an anisotropic electron beam by electrostatic and electromagnetic instabilities. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	8
46	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.	0.8	8
47	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.	0.8	8
48	Spectral properties of the Alfvén cyclotron instability: Applications to relativistic electron scattering. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	7
49	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.	0.8	7
50	Test-Particle Simulations of Linear and Nonlinear Interactions Between a 2D Whistler-Mode Wave Packet and Radiation Belt Electrons. <i>Geophysical Research Letters</i> , 2018, 45, 5234-5245.	1.5	7
51	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> , 2021, 510, 1031-1042.	1.6	6
52	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.	0.8	5
53	Particle-in-Cell Simulations of the Fast Magnetosonic Mode in a Dipole Magnetic Field: 1D Along the Radial Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7424-7440.	0.8	5
54	Two-Dimensional Hybrid Particle-in-Cell Simulations of Magnetosonic Waves in the Dipole Magnetic Field: On a Constant $\langle i \rangle$ Shell. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028414.	0.8	5

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55	Stability analysis of the pickup ion ring-beam distributions in the outer heliosheath. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3662-3668.	1.6	5
56	Van Allen Probes Observations of Oxygen Ion Cyclotron Harmonic Waves: Statistical Study. Geophysical Research Letters, 2022, 49, .	1.5	4
57	Particle-in-cell simulations of high-frequency waves driven by pickup ion ring-beam distributions in the outer heliosheath. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4291-4297.	1.6	4
58	Heliosheath fluctuations near the perpendicular termination shock: Two-dimensional hybrid simulations. Journal of Geophysical Research, 2010, 115, .	3.3	3
59	Gyrokinetic electron and fully kinetic ion simulations of fast magnetosonic waves in the magnetosphere. Physics of Plasmas, 2017, 24, .	0.7	3
60	Investigation on unexpected variations of differential phase delay of Chang'e-3. Advances in Space Research, 2021, 68, 4088-4099.	1.2	3
61	Simulation of the Scattering of Continuously Injected Pickup Ions outside the Heliopause. Astrophysical Journal, 2021, 922, 271.	1.6	3
62	Quasilinear Diffusion of Protons by Equatorial Magnetosonic Waves at Quasi-perpendicular Propagation: Comparison With the Test-Particle Approach. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029767.	0.8	1