

Zhigang Yuan

List of Publications by Year in descending order

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116
papers

2,780
citations

159585

30
h-index

214800

47
g-index

116
all docs

116
docs citations

116
times ranked

1325
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations of Pitch Angle Changes of Electrons and High-Frequency Wave Activities in the Magnetotail Plasma Bubble. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, e2021JA029761.	2.4	5
2	Formation of Negative J_{\perp} and E_{\perp} in the Outer Electron Diffusion Region During Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	9
3	Electromagnetic Ion Cyclotron Harmonic Waves Generated via Nonlinear Wave-Wave Couplings. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
4	Fast Magnetosonic Waves in a Dipolarizing Flux Bundle Inside the Geosynchronous Orbit. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
5	Successive Dipolarization Fronts With a Stepwise Electron Acceleration During a Substorm in Saturn's Magnetotail. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
6	Substructures of the Separatrix Region During Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
7	Intermittent Dissipation at Kinetic Scales in the Turbulent Reconnection Outflow. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	19
8	EMIC Waves Observed Throughout the Inner Magnetosphere Driven by Abrupt Enhancement of the Solar Wind Pressure. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
9	Kinetic-Size Magnetic Holes in the Terrestrial Foreshock Region. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
10	Anisotropy of Magnetic Field Spectra at Kinetic Scales of Solar Wind Turbulence as Revealed by the Parker Solar Probe in the Inner Heliosphere. <i>Astrophysical Journal Letters</i> , 2022, 929, L6.	8.3	10
11	Second-Harmonic Generation of EMIC Waves in the Inner Magnetosphere: Theoretical Analyses and Hybrid Simulations. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
12	Distribution of Negative J_{\perp} and E_{\perp} in the Inflow Edge of the Inner Electron Diffusion Region During Tail Magnetic Reconnection: Simulations Vs. Observations. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
13	Direct Observation of Acceleration and Thermalization of Beam Electrons Caused by Double Layers in the Earth's Plasma Sheet. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
14	Nonlinear Interaction Between H^+ Band and He^+ Band EMIC Waves: Van Allen Probe Observations and Hybrid Simulations. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
15	Narrowband Magnetosonic Waves Near the Lower Hybrid Resonance Frequency in the Inner Magnetosphere: Wave Properties and Excitation Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	9
16	Prompt Emergence and Disappearance of EMIC Waves Driven by the Sequentially Enhanced Solar Wind Dynamic Pressure. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091479.	4.0	17
17	Characteristics of Magnetic Holes in the Solar Wind Revealed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2021, 908, 56.	4.5	15
18	Effects of the Plasmopause on the Radial Propagation of Fast Magnetosonic Waves: An Analytical Approach. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028330.	2.4	7

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19	Secondâ€Harmonic Generation of Electromagnetic Emissions in a Magnetized Plasma: Kinetic Theory Approach. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091762.	4.0	10
20	Multiâ€Spacecraft Measurement of Anisotropic Spatial Correlation Functions at Kinetic Range in the Magnetosheath Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028780.	2.4	6
21	Attenuation of plasmaspheric hiss associated with the enhanced magnetospheric electric field. <i>Annales Geophysicae</i> , 2021, 39, 461-470.	1.6	4
22	Statistical Properties of Current, Energy Conversion, and Electron Acceleration in Flux Ropes in the Terrestrial Magnetotail. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093458.	4.0	14
23	Proton Ring Evolution and Its Effect on Magnetosonic Wave Excitation: Particleâ€Cell Simulation and Linear Theory. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092747.	4.0	4
24	Radially Full Reflection of Fast Magnetosonic Waves Near the Cutâ€Off Frequency. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029508.	2.4	6
25	Electromagnetic Characteristics of Fast Magnetosonic Waves in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029759.	2.4	8
26	Characteristics of Energetic Oxygen Ions Escaping From Mars: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029507.	2.4	1
27	Simultaneous Generation of EMIC and MS Waves During the Magnetic Dip in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094842.	4.0	10
28	First Observations of O ²⁺ Band EMIC Waves in the Terrestrial Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094681.	4.0	8
29	Global Spatial Distribution of Dipolarization Fronts in the Saturn's Magnetosphere: Cassini Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092701.	4.0	11
30	Observation of Highâ€Frequency Electrostatic Waves in the Dip Region Ahead of Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029408.	2.4	6
31	Observational Evidence of Magnetic Reconnection in the Terrestrial Foreshock Region. <i>Astrophysical Journal</i> , 2021, 922, 56.	4.5	10
32	Electron-only Reconnection in an Ion-scale Current Sheet at the Magnetopause. <i>Astrophysical Journal</i> , 2021, 922, 54.	4.5	17
33	In Situ Detection of Kinetic-size Magnetic Holes in the Martian Magnetosheath. <i>Astrophysical Journal</i> , 2021, 922, 107.	4.5	9
34	Analytical Fast Magnetosonic Wave Model Based on Observations of Van Allen Probe. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028527.	2.4	4
35	Revisit the Analytical Approximation of Transitâ€Time Scattering for Fast Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088434.	4.0	18
36	Ionospheric Signatures of Ring Current Ions Scattered by Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089032.	4.0	6

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37	First Observations of Magnetosonic Waves With Nonlinear Harmonics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027724.	2.4	13
38	Excitation of Whistler Waves Through the Bidirectional Field-Aligned Electron Beams With Electron Temperature Anisotropy: MMS Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087515.	4.0	13
39	Observations of Electron Vortex at the Dipolarization Front. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088448.	4.0	18
40	Analysis of Turbulence Properties in the Mercury Plasma Environment Using MESSENGER Observations. <i>Astrophysical Journal</i> , 2020, 891, 159.	4.5	19
41	Kinetic Scale Slow Solar Wind Turbulence in the Inner Heliosphere: Coexistence of Kinetic Alfvén Waves and Alfvén Ion Cyclotron Waves. <i>Astrophysical Journal Letters</i> , 2020, 897, L3.	8.3	28
42	Evolutions of equatorial ring current ions during a magnetic storm. <i>Earth and Planetary Physics</i> , 2020, 4, 1-7.	1.1	2
43	Observations of Magnetic Field Line Curvature and Its Role in the Space Plasma Turbulence. <i>Astrophysical Journal Letters</i> , 2020, 898, L18.	8.3	16
44	Electron Jets in the Terrestrial Magnetotail: A Statistical Overview. <i>Astrophysical Journal</i> , 2020, 896, 67.	4.5	9
45	Saturation Characteristics of Parallel EMIC Waves in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2019, 46, 7902-7910.	4.0	10
46	Observations of whistler waves in two sequential flux ropes at the magnetopause. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	10
47	A Simulation of the Field-Aligned Plasma Transport in the Plasmaspheric Plume During the 2015 St. Patrick's Day Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8617-8628.	2.4	3
48	The Role of Upper Hybrid Waves in the Magnetotail Reconnection Electron Diffusion Region. <i>Astrophysical Journal Letters</i> , 2019, 881, L28.	8.3	22
49	An Automatic Detection Algorithm Applied to Fast Magnetosonic Waves With Observations of the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3501-3511.	2.4	25
50	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , 2019, 875, 113.	4.5	21
51	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 580-589.	4.0	31
52	Simultaneous Trapping of Electromagnetic Ion Cyclotron and Magnetosonic Waves by Background Plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1635-1643.	2.4	22
53	Periodical Dipolarization Processes in Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 13640-13648.	4.0	17
54	Excitation of extremely low-frequency chorus emissions: The role of background plasma density. <i>Earth and Planetary Physics</i> , 2019, 3, 1-7.	1.1	4

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55	Cold Ion Heating by Magnetosonic Waves in a Density Cavity of the Plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1242-1250.	2.4	34
56	Precipitation of Radiation Belt Electrons by EMIC Waves With Conjugated Observations of NOAA and Van Allen Satellites. <i>Geophysical Research Letters</i> , 2018, 45, 12,694.	4.0	31
57	A new method to identify flux ropes in space plasmas. <i>Annales Geophysicae</i> , 2018, 36, 1275-1283.	1.6	4
58	Global Distribution of Proton Rings and Associated Magnetosonic Wave Instability in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2018, 45, 10,160.	4.0	25
59	Response of Banded Whistler Mode Waves to the Enhancement of Solar Wind Dynamic Pressure in the Inner Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2018, 45, 8755-8763.	4.0	10
60	Excitation of O + Band EMIC Waves Through H + Ring Velocity Distributions: Van Allen Probe Observations. <i>Geophysical Research Letters</i> , 2018, 45, 1271-1276.	4.0	18
61	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , 2018, 861, 29.	4.5	46
62	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018, 862, 144.	4.5	43
63	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017, 836, L27.	8.3	85
64	On the Existence of the Kolmogorov Inertial Range in the Terrestrial Magnetosheath Turbulence. <i>Astrophysical Journal Letters</i> , 2017, 836, L10.	8.3	90
65	Subauroral polarization stream on the outer boundary of the ring current during an energetic ion injection event. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4837-4845.	2.4	4
66	In situ observations of magnetosonic waves modulated by background plasma density. <i>Geophysical Research Letters</i> , 2017, 44, 7628-7633.	4.0	42
67	Statistical characteristics of the polar ionospheric scale height around the peak height of F2 layer with observations of the ESR radar: Disturbed days. <i>Advances in Space Research</i> , 2017, 60, 1516-1523.	2.6	1
68	EMIC waves covering wide L shells: MMS and Van Allen Probes observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7387-7395.	2.4	15
69	Occurrence rate of whistler waves in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7188-7196.	2.4	30
70	Oxygen cyclotron harmonic waves observed using Van Allen Probes. <i>Science China Earth Sciences</i> , 2017, 60, 1310-1316.	5.2	14
71	A statistical study of kinetic-size magnetic holes in turbulent magnetosheath: MMS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8577-8588.	2.4	64
72	Energetic ions scattered into the loss cone with observations of the Cluster satellite. <i>Annales Geophysicae</i> , 2016, 34, 249-257.	1.6	7

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73	Compression-amplified EMIC waves and their effects on relativistic electrons. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	24
74	Geomagnetic storms and EMIC waves: Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6444-6457.	2.4	24
75	Excitation of oblique O ⁺ band EMIC waves in the inner magnetosphere driven by hot H ⁺ with ring velocity distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,101.	2.4	29
76	In situ observations of flux rope at the separatrix region of magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 205-213.	2.4	30
77	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858.	4.0	53
78	In situ evidence of the modification of the parallel propagation of EMIC waves by heated He ⁺ ions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6711-6717.	2.4	18
79	Two types of whistler waves in the hall reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6639-6646.	2.4	57
80	Statistical characteristics of potentially chorus-driven energetic electron precipitation from POES observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9531-9546.	2.4	8
81	A subauroral polarization stream driven by field-aligned currents associated with precipitating energetic ions caused by EMIC waves: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1696-1705.	2.4	9
82	Kinetic simulations of secondary reconnection in the reconnection jet. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6188-6198.	2.4	30
83	Statistical characteristics of EMIC waves: Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4400-4408.	2.4	72
84	Electromagnetic energy conversion at dipolarization fronts: Multispacecraft results. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4496-4502.	2.4	86
85	The enhancement of cosmic radio noise absorption due to hiss-driven energetic electron precipitation during substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5393-5407.	2.4	16
86	In situ observations of EMIC waves in O ⁺ band by the Van Allen Probe A. <i>Geophysical Research Letters</i> , 2015, 42, 1312-1317.	4.0	52
87	A statistical study on the whistler waves behind dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1086-1095.	2.4	25
88	Dawn-dusk scale of dipolarization front in the Earth's magnetotail: multi-cases study. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	1.4	23
89	Statistical characteristics of the polar ionospheric scale height around the peak height of F2 layer with observations of the ESR radar: Quiet days. <i>Science China Technological Sciences</i> , 2015, 58, 687-694.	4.0	4
90	Kinetic simulations of electric field structure within magnetic island during magnetic reconnection and their applications to the satellite observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7402-7412.	2.4	26

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91	Influence of precipitating energetic ions caused by EMIC waves on the subauroral ionospheric E region during a geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8462-8471.	2.4	16
92	KINETIC TURBULENCE IN THE TERRESTRIAL MAGNETOSHEATH: CLUSTER OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L28.	8.3	74
93	Compression-related EMIC waves drive relativistic electron precipitation. <i>Science China Technological Sciences</i> , 2014, 57, 2418-2425.	4.0	15
94	Cold electron heating by EMIC waves in the plasmaspheric plume with observations of the Cluster satellite. <i>Geophysical Research Letters</i> , 2014, 41, 1830-1837.	4.0	57
95	Statistical characteristics of EMIC wave-driven relativistic electron precipitation with observations of POES satellites: Revisit. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5509-5519.	2.4	29
96	Observation of directional change of core field inside flux ropes within one reconnection diffusion region in the Earth's magnetotail. <i>Science Bulletin</i> , 2014, 59, 4797-4803.	1.7	13
97	Observation of large-amplitude magnetosonic waves at dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4335-4347.	2.4	53
98	Evidence of deflected super-Alfvénic electron jet in a reconnection region with weak guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1541-1548.	2.4	23
99	Characteristic distribution and possible roles of waves around the lower hybrid frequency in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8228-8242.	2.4	34
100	Ionospheric characteristics associated with wave-particle interactions in a SED plume during a super geomagnetic storm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 95-96, 96-101.	1.6	2
101	Simultaneous observations of precipitating radiation belt electrons and ring current ions associated with the plasmaspheric plume. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4391-4399.	2.4	43
102	Cluster observations of kinetic structures and electron acceleration within a dynamic plasma bubble. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 674-684.	2.4	66
103	Kinetic structure and wave properties associated with sharp dipolarization front observed by Cluster. <i>Annales Geophysicae</i> , 2012, 30, 97-107.	1.6	124
104	Electron acceleration in the reconnection diffusion region: Cluster observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	95
105	Characteristics of precipitating energetic ions/electrons associated with the wave-particle interaction in the plasmaspheric plume. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
106	Wave-particle interaction in a plasmaspheric plume observed by a Cluster satellite. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
107	Observations of turbulence within reconnection jet in the presence of guide field. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	78
108	Energetic particle precipitation and the influence on the sub-ionosphere in the SED plume during a super geomagnetic storm. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	15

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109	Link between EMIC waves in a plasmaspheric plume and a detached subauroral proton arc with observations of Cluster and IMAGE satellites. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	61
110	Wave properties in the magnetic reconnection diffusion region with high k^2 : Application of the k -filtering method to Cluster multispacecraft data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
111	Effects of TADs on the F region of the mid-latitude ionosphere during an intense geomagnetic storm. <i>Advances in Space Research</i> , 2009, 44, 1013-1018.	2.6	6
112	Dynamics and waves near multiple magnetic null points in reconnection diffusion region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
113	Observation of waves near lower hybrid frequency in the reconnection region with thin current sheet. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
114	Statistical height-dependent relative importance of the Lorentz force and Joule heating in generating atmospheric gravity waves in the auroral electrojets. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	7
115	A new method for determining the meridional wind velocity during an ionospheric storm. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	11
116	Simulation of Cold Ion Transport Originating from the SED Plume into Dayside Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 0, , .	2.4	0