Huinan Zheng

List of Publications by Year in descending order

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159358 214527 2,279 60 30 47 citations h-index g-index papers 60 60 60 930 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Modeling of outer radiation belt electrons by multidimensional diffusion process. Journal of Geophysical Research, 2009, 114 , .	3.3	181
2	Threeâ€dimensional simulations of outer radiation belt electron dynamics including crossâ€diffusion terms. Journal of Geophysical Research, 2010, 115, .	3.3	121
3	Energetic electron distributions fitted with a relativistic kappaâ€type function at geosynchronous orbit. Journal of Geophysical Research, 2008, 113, .	3.3	111
4	STEERB: A threeâ€dimensional code for stormâ€time evolution of electron radiation belt. Journal of Geophysical Research, 2010, 115, .	3.3	105
5	CRRES observation and STEERB simulation of the 9 October 1990 electron radiation belt dropout event. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	85
6	Radiation belt electron dynamics driven by adiabatic transport, radial diffusion, and wave-particle interactions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	73
7	Ultra-low-frequency wave-driven diffusion of radiation belt relativistic electrons. Nature Communications, 2015, 6, 10096.	5.8	71
8	Evolution of electron pitch angle distribution due to interactions with whistler mode chorus following substorm injections. Journal of Geophysical Research, 2009, 114, .	3.3	69
9	Largeâ€Amplitude Extremely Low Frequency Hiss Waves in Plasmaspheric Plumes. Geophysical Research Letters, 2018, 45, 565-577.	1.5	69
10	Nonstorm time dynamics of electron radiation belts observed by the Van Allen Probes. Geophysical Research Letters, 2014, 41, 229-235.	1.5	60
11	Electromagnetic ion cyclotron waves instability threshold condition of suprathermal protons by kappa distribution. Journal of Geophysical Research, 2007, 112, .	3.3	57
12	Magnetohydrodynamic simulation of the interaction between two interplanetary magnetic clouds and its consequent geoeffectiveness. Journal of Geophysical Research, 2007, 112, .	3.3	55
13	Whistler instability threshold condition of energetic electrons by kappa distribution in space plasmas. Journal of Geophysical Research, 2006, 111, .	3.3	53
14	A parametric ray tracing study of superluminous auroral kilometric radiation wave modes. Journal of Geophysical Research, 2007, 112 , .	3.3	50
15	Bounceâ€averaged advection and diffusion coefficients for monochromatic electromagnetic ion cyclotron wave: Comparison between testâ€particle and quasiâ€inear models. Journal of Geophysical Research, 2012, 117, .	3.3	49
16	Intense duskside lower band chorus waves observed by Van Allen Probes: Generation and potential acceleration effect on radiation belt electrons. Journal of Geophysical Research: Space Physics, 2014, 119, 4266-4273.	0.8	49
17	Nonstorm time dropout of radiation belt electron fluxes on 24 September 2013. Journal of Geophysical Research: Space Physics, 2016, 121, 6400-6416.	0.8	49
18	A parametric study on the diffuse auroral precipitation by resonant interaction with whistler mode chorus. Journal of Geophysical Research, 2010, 115, .	3.3	43

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19	Combined radial diffusion and adiabatic transport of radiation belt electrons with arbitrary pitch angles. Journal of Geophysical Research, 2010, 115, .	3.3	43
20	Prompt Disappearance and Emergence of Radiation Belt Magnetosonic Waves Induced by Solar Wind Dynamic Pressure Variations. Geophysical Research Letters, 2018, 45, 585-594.	1.5	42
21	Numerical simulations of storm-time outer radiation belt dynamics by wave–particle interactions including cross diffusion. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 95-105.	0.6	41
22	Plasmatrough exohiss waves observed by Van Allen Probes: Evidence for leakage from plasmasphere and resonant scattering of radiation belt electrons. Geophysical Research Letters, 2015, 42, 1012-1019.	1.5	40
23	Magnetohydrodynamic simulation of the interaction between two interplanetary magnetic clouds and its consequent geoeffectiveness: 2. Oblique collision. Journal of Geophysical Research, 2009, 114, .	3.3	39
24	Magnetohydrodynamic simulation of the interaction between interplanetary strong shock and magnetic cloud and its consequent geoeffectiveness. Journal of Geophysical Research, 2006, 111 , .	3.3	38
25	Rapid Loss of Radiation Belt Relativistic Electrons by EMIC Waves. Journal of Geophysical Research: Space Physics, 2017, 122, 9880-9897.	0.8	38
26	Quantifying the relative contributions of substorm injections and chorus waves to the rapid outward extension of electron radiation belt. Journal of Geophysical Research: Space Physics, 2014, 119, 10,023.	0.8	37
27	Disappearance of plasmaspheric hiss following interplanetary shock. Geophysical Research Letters, 2015, 42, 3129-3140.	1.5	34
28	Multipoint Observations of Nightside Plasmaspheric Hiss Generated by Substormâ€Injected Electrons. Geophysical Research Letters, 2018, 45, 10,921.	1.5	34
29	Magnetohydrodynamic simulation of the interaction between interplanetary strong shock and magnetic cloud and its consequent geoeffectiveness: 2. Oblique collision. Journal of Geophysical Research, 2006, 111, .	3.3	32
30	Threeâ€dimensional simulation of energetic outer zone electron dynamics due to waveâ€particle interaction and azimuthal advection. Journal of Geophysical Research, 2010, 115, .	3.3	31
31	Simultaneous disappearances of plasmaspheric hiss, exohiss, and chorus waves triggered by a sudden decrease in solar wind dynamic pressure. Geophysical Research Letters, 2017, 44, 52-61.	1.5	31
32	Dynamic evolution of energetic outer zone electrons due to whistler mode chorus based on a realistic density model. Journal of Geophysical Research, 2009, 114, .	3.3	30
33	Intense lowâ€frequency chorus waves observed by Van Allen Probes: Fine structures and potential effect on radiation belt electrons. Geophysical Research Letters, 2016, 43, 967-977.	1.5	30
34	Direct observation of generation and propagation of magnetosonic waves following substorm injection. Geophysical Research Letters, 2017, 44, 7587-7597.	1.5	30
35	Latitudinal dependence of nonlinear interaction between electromagnetic ion cyclotron wave and radiation belt relativistic electrons. Journal of Geophysical Research: Space Physics, 2013, 118, 3188-3202.	0.8	28
36	A positive correlation between energetic electron butterfly distributions and magnetosonic waves in the radiation belt slot region. Geophysical Research Letters, 2017, 44, 3980-3990.	1.5	27

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37	A parametric study on outer radiation belt electron evolution by superluminous Râ€X mode waves. Journal of Geophysical Research, 2010, 115, .	3.3	26
38	Nonlinear interaction between ring current protons and electromagnetic ion cyclotron waves. Journal of Geophysical Research, 2012, 117, .	3.3	25
39	Latitudinal dependence of nonlinear interaction between electromagnetic ion cyclotron wave and terrestrial ring current ions. Physics of Plasmas, 2014, 21, .	0.7	25
40	Rapid flattening of butterfly pitch angle distributions of radiation belt electrons by whistlerâ€mode chorus. Geophysical Research Letters, 2016, 43, 8339-8347.	1.5	23
41	Magnetosonic Harmonic Falling and Rising Frequency Emissions Potentially Generated by Nonlinear Waveâ€Wave Interactions in the Van Allen Radiation Belts. Geophysical Research Letters, 2018, 45, 7985-7995.	1.5	22
42	Comprehensive Observations of Substormâ€Enhanced Plasmaspheric Hiss Generation, Propagation, and Dissipation. Geophysical Research Letters, 2020, 47, e2019GL086040.	1.5	21
43	Nonlinear fundamental and harmonic cyclotron resonant scattering of radiation belt ultrarelativistic electrons by oblique monochromatic EMIC waves. Journal of Geophysical Research: Space Physics, 2017, 122, 1928-1945.	0.8	19
44	Shockâ€Induced Disappearance and Subsequent Recovery of Plasmaspheric Hiss: Coordinated Observations of RBSP, THEMIS, and POES Satellites. Journal of Geophysical Research: Space Physics, 2017, 122, 10,421.	0.8	19
45	Nonlinear Coupling Between Whistlerâ€Mode Chorus and Electron Cyclotron Harmonic Waves in the Magnetosphere. Geophysical Research Letters, 2018, 45, 12,685.	1.5	15
46	A three-dimensional analysis of global propagation of magnetohydrodynamic (MHD) waves in a structured solar atmosphere. Journal of Geophysical Research, 2005, 110 , .	3.3	14
47	Offâ€Equatorial Source of Magnetosonic Waves Extending Above the Lower Hybrid Resonance Frequency in the Inner Magnetosphere. Geophysical Research Letters, 2021, 48, e2020GL091830.	1.5	14
48	Can Solar Wind Decompressive Discontinuities Suppress Magnetospheric Electromagnetic Ion Cyclotron Waves Associated With Fresh Proton Injections?. Geophysical Research Letters, 2020, 47, e2020GL090296.	1.5	12
49	Quenching of Equatorial Magnetosonic Waves by Substorm Proton Injections. Geophysical Research Letters, 2019, 46, 6156-6167.	1.5	10
50	Suprathermal Electron Evolution Under the Competition Between Plasmaspheric Plume Hiss Wave Heating and Collisional Cooling. Geophysical Research Letters, 2020, 47, e2020GL089649.	1.5	10
51	Exohiss wave enhancement following substorm electron injection in the dayside magnetosphere. Earth and Planetary Physics, 2018, 2, 1-12.	0.4	9
52	Magnetospheric Chorus, Exohiss, and Magnetosonic Emissions Simultaneously Modulated by Fundamental Toroidal Standing Alfvén Waves Following Solar Wind Dynamic Pressure Fluctuations. Geophysical Research Letters, 2019, 46, 1900-1910.	1.5	9
53	Proton auroral intensification induced by interplanetary shock on 7 November 2004. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	8
54	Van Allen Probes observations of whistlerâ€mode chorus with longâ€lived oscillating tones. Geophysical Research Letters, 2017, 44, 5909-5919.	1.5	8

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55	Rapid Landau Heating of Martian Topside Ionospheric Electrons by Largeâ€Amplitude Magnetosonic Waves. Geophysical Research Letters, 2020, 47, e2020GL090190.	1.5	5
56	Immediate Impact of Solar Wind Dynamic Pressure Pulses on Whistlerâ€Mode Chorus Waves in the Inner Magnetosphere. Geophysical Research Letters, 2022, 49, .	1.5	5
57	Generation of Lower <i>L</i> Shell Dayside Chorus by Energetic Electrons From the Plasma Sheet. Journal of Geophysical Research: Space Physics, 2018, 123, 8109-8121.	0.8	4
58	A Rapid Localized Deceleration of Earth's Radiation Belt Relativistic Electrons Driven by Storm Proton Injection. Geophysical Research Letters, 2022, 49, .	1.5	1
59	Eigenmodes of quasi-static magnetic islands in current sheet. Physics of Plasmas, 2011, 18, 122110.	0.7	0
60	Three-dimensional ray-tracing simulation of fast magnetoacoustic waves in a stratified solar atmosphere. Science China Technological Sciences, 2017, 60, 1570-1576.	2.0	0