

Song Fu

List of Publications by Year in descending order

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49
papers

1,075
citations

394421

19
h-index

434195

31
g-index

49
all docs

49
docs citations

49
times ranked

608
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonant scattering of outer zone relativistic electrons by multiband EMIC waves and resultant electron loss time scales. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7357-7373.	2.4	172
2	Competition between outer zone electron scattering by plasmaspheric hiss and magnetosonic waves. <i>Geophysical Research Letters</i> , 2017, 44, 3465-3474.	4.0	66
3	Hot Plasma Effects on the Cyclotronâ€Resonant Pitchâ€Angle Scattering Rates of Radiation Belt Electrons Due to EMIC Waves. <i>Geophysical Research Letters</i> , 2018, 45, 21-30.	4.0	66
4	Resonant scattering of central plasma sheet protons by multiband EMIC waves and resultant proton loss timescales. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1219-1232.	2.4	44
5	Bounce resonance scattering of radiation belt electrons by H^{+} band EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1702-1713.	2.4	44
6	Parametric Sensitivity of the Formation of Reversed Electron Energy Spectrum Caused by Plasmaspheric Hiss. <i>Geophysical Research Letters</i> , 2019, 46, 4134-4143.	4.0	41
7	Very-Low-Frequency transmitters bifurcate energetic electron belt in near-earth space. <i>Nature Communications</i> , 2020, 11, 4847.	12.8	35
8	Excitation of dayside chorus waves due to magnetic field line compression in response to interplanetary shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8327-8338.	2.4	32
9	Statistical Properties of Hiss in Plasmaspheric Plumes and Associated Scattering Losses of Radiation Belt Electrons. <i>Geophysical Research Letters</i> , 2019, 46, 5670-5680.	4.0	32
10	Resonant Scattering of Radiation Belt Electrons by Offâ€Equatorial Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2018, 45, 1228-1236.	4.0	31
11	Evolution of Radiation Belt Electron Pitch Angle Distribution Due to Combined Scattering by Plasmaspheric Hiss and Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2019, 46, 3033-3042.	4.0	31
12	A statistical survey of electrostatic electron cyclotron harmonic waves based on THEMIS FFF wave data. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3342-3353.	2.4	29
13	Electron Scattering by Plasmaspheric Hiss in a Nightside Plume. <i>Geophysical Research Letters</i> , 2018, 45, 4618-4627.	4.0	29
14	Bounce Resonance Scattering of Radiation Belt Electrons by Lowâ€Frequency Hiss: Comparison With Cyclotron and Landau Resonances. <i>Geophysical Research Letters</i> , 2017, 44, 9547-9554.	4.0	28
15	Sensitivity of EMIC Waveâ€Driven Scattering Loss of Ring Current Protons to Wave Normal Angle Distribution. <i>Geophysical Research Letters</i> , 2019, 46, 590-598.	4.0	28
16	Combined Scattering of Radiation Belt Electrons Caused by Landau and Bounce Resonant Interactions With Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2019, 46, 10313-10321.	4.0	26
17	Resonant Scattering of Nearâ€Equatorially Mirroring Electrons by Landau Resonance With H^{+} Band EMIC Waves. <i>Geophysical Research Letters</i> , 2018, 45, 10,866.	4.0	20
18	Combined Scattering of Outer Radiation Belt Electrons by Simultaneously Occurring Chorus, Exohiss, and Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2018, 45, 10,057.	4.0	20

#	ARTICLE	IF	CITATIONS
19	On the loss mechanisms of radiation belt electron dropouts during the 12 September 2014 geomagnetic storm. <i>Earth and Planetary Physics</i> , 2020, 4, 1-13.	1.1	20
20	Combined Scattering of Radiation Belt Electrons by Low-Frequency Hiss: Cyclotron, Landau, and Bounce Resonances. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL086963.	4.0	20
21	Interactions between magnetosonic waves and ring current protons: Gyroaveraged test particle simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8537-8553.	2.4	19
22	Ultralow Frequency Waves Deep Inside the Inner Magnetosphere Driven by Dipolarizing Flux Bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,112.	2.4	16
23	Statistical Distributions of Dayside ECH Waves Observed by MMS. <i>Geophysical Research Letters</i> , 2018, 45, 12,730.	4.0	16
24	Wave Normal Angle Distribution of Fast Magnetosonic Waves: A Survey of Van Allen Probes EMFISIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5663-5674.	2.4	16
25	Distinct Formation and Evolution Characteristics of Outer Radiation Belt Electron Butterfly Pitch Angle Distributions Observed by Van Allen Probes. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086487.	4.0	15
26	Dynamic Responses of Radiation Belt Electron Fluxes to Magnetic Storms and their Correlations with Magnetospheric Plasma Wave Activities. <i>Astrophysical Journal</i> , 2020, 891, 127.	4.5	14
27	Diffuse Auroral Electron Scattering by Electrostatic Electron Cyclotron Harmonic Waves in the Dayside Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092208.	4.0	14
28	Interactions between H ⁺ band EMIC waves and radiation belt relativistic electrons: Comparisons of test particle simulations with quasi-linear calculations. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	12
29	Hot Plasma Effects on the Pitch-angle Scattering Rates of Radiation Belt Electrons Due to Plasmaspheric Hiss. <i>Astrophysical Journal</i> , 2020, 896, 118.	4.5	12
30	Prediction of Dynamic Plasmapause Location Using a Neural Network. <i>Space Weather</i> , 2021, 19, e2020SW002622.	3.7	12
31	Artificial modification of Earth's radiation belts by ground-based very-low-frequency (VLF) transmitters. <i>Science China Earth Sciences</i> , 2022, 65, 391.	5.2	12
32	Occurrence features of simultaneous H ⁺ - and He ⁺ -band EMIC emissions in the outer radiation belt. <i>Advances in Space Research</i> , 2018, 61, 2091-2098.	2.6	11
33	Empirical Loss Timescales of Slot Region Electrons due to Plasmaspheric Hiss Based on Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029057.	2.4	10
34	Parametric Dependence of the Formation of Electron Butterfly Pitch Angle Distribution Driven by Magnetosonic Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027967.	2.4	9
35	Acceleration of Ring Current Protons Driven by Magnetosonic Waves: Comparisons of Test Particle Simulations with Quasilinear Calculations. <i>Astrophysical Journal</i> , 2021, 908, 203.	4.5	9
36	Trapped and Accelerated Electrons Within a Magnetic Mirror Behind a Flux Rope on the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3993-4008.	2.4	8

#	ARTICLE	IF	CITATIONS
37	Statistical Distribution of Bifurcation of Earth's Inner Energetic Electron Belt at Tens of keV. Geophysical Research Letters, 2021, 48, e2020GL091242.	4.0	8
38	Quasi- π -Trapped Electron Fluxes Induced by NWC Transmitter and CRAND: Observations and Simulations. Geophysical Research Letters, 2022, 49, .	4.0	8
39	Effects of Superthermal Plasmas on the Linear Growth of Multiband EMIC Waves. Astrophysical Journal, 2020, 899, 43.	4.5	7
40	Bounce resonance scattering of ring current electrons by H+band EMIC waves. Physics of Plasmas, 2018, 25, 082903.	1.9	6
41	Bounce Resonance Scattering of Radiation Belt Energetic Electrons by Extremely Low-Frequency Chorus Waves. Geophysical Research Letters, 2021, 48, e2021GL095714.	4.0	6
42	Global Distribution of Concurrent EMIC Waves and Magnetosonic Waves: A Survey of Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	6
43	Inter-satellite calibration of FengYun 3 medium energy electron fluxes with POES electron measurements. Advances in Space Research, 2018, 61, 2290-2300.	2.6	4
44	Ion dynamics associated with substorm dipolarization fronts. Science China Earth Sciences, 2014, 57, 2543-2551.	5.2	3
45	Global Distribution of Reversed Energy Spectra of Ring Current Protons Based on Van Allen Probes Observations. Geophysical Research Letters, 2021, 48, e2020GL091559.	4.0	3
46	Whistler Wings and Reflected Particles During Solar Wind Interaction of Lunar Magnetic Anomalies. Geophysical Research Letters, 2021, 48, e2021GL092425.	4.0	3
47	Energy-dependent Boundaries of Earth's Radiation Belt Electron Slot Region. Astrophysical Journal, 2021, 922, 246.	4.5	2
48	Assessment of applicability of cold plasma dispersion relation of slot region hiss based on Van Allen Probes observations. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 051101.	0.5	0
49	Testing the Linearity of Combined Electron Scattering Effects Driven by Simultaneous H ⁺ and He ⁺ Band EMIC Waves. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	0