

Masafumi Shoji

List of Publications by Citations

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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.

66

papers

1,103

citations

18

h-index

32

g-index

80

ext. papers

1,404

ext. citations

3.9

avg, IF

4.02

L-index

#	Paper	IF	Citations
66	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019 , 215, 9	7.5	205
65	The Plasma Wave Experiment (PWE) on board the Arase (ERG) satellite. <i>Earth, Planets and Space</i> , 2018 , 70,	2.9	92
64	The ERG Science Center. <i>Earth, Planets and Space</i> , 2018 , 70,	2.9	84
63	High Frequency Analyzer (HFA) of Plasma Wave Experiment (PWE) onboard the Arase spacecraft. <i>Earth, Planets and Space</i> , 2018 , 70,	2.9	66
62	Triggering process of electromagnetic ion cyclotron rising tone emissions in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5553-5561	2.6	45
61	Simulation of electromagnetic ion cyclotron triggered emissions in the Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2011 , 116,		44
60	Wire Probe Antenna (WPT) and Electric Field Detector (EFD) of Plasma Wave Experiment (PWE) aboard the Arase satellite: specifications and initial evaluation results. <i>Earth, Planets and Space</i> , 2017 , 69,	2.9	42
59	Mirror instability and L-mode electromagnetic ion cyclotron instability: Competition in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		40
58	Electromagnetic ion cyclotron waves in the Earth's magnetosphere with a kappa-Maxwellian particle distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8426-8439	2.6	38
57	Electromagnetic ion cyclotron rising tone emissions observed by THEMIS probes outside the plasmapause. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1874-1886	2.6	36
56	Akebono observations of EMIC waves in the slot region of the radiation belts. <i>Geophysical Research Letters</i> , 2013 , 40, 5587-5591	4.9	31
55	Subpacket structures in EMIC rising tone emissions observed by the THEMIS probes. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7318-7330	2.6	27
54	Electromagnetic ion cyclotron waves in the helium branch induced by multiple electromagnetic ion cyclotron triggered emissions. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	25
53	Magnetic fluctuations embedded in dipolarization inside geosynchronous orbit and their associated selective acceleration of O ⁺ ions. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4639-4655	2.6	24
52	Precipitation of highly energetic protons by helium branch electromagnetic ion cyclotron triggered emissions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		23
51	EMIC Waves Converted From Equatorial Noise Due to M/Q = 2 Ions in the Plasmasphere: Observations From Van Allen Probes and Arase. <i>Geophysical Research Letters</i> , 2019 , 46, 5662-5669	4.9	20
50	Spectrum characteristics of electromagnetic ion cyclotron triggered emissions and associated energetic proton dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3480-3489	2.6	20

49	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , 2018 , 361, 1000-1003	33.3	19
48	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021 , 11, 13724	4.9	14
47	Multidimensional nonlinear mirror-mode structures in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
46	Remote Detection of Drift Resonance Between Energetic Electrons and Ultralow Frequency Waves: Multisatellite Coordinated Observation by Arase and Van Allen Probes. <i>Geophysical Research Letters</i> , 2019 , 46, 11642-11651	4.9	11
45	Ion hole formation and nonlinear generation of electromagnetic ion cyclotron waves: THEMIS observations. <i>Geophysical Research Letters</i> , 2017 , 44, 8730-8738	4.9	11
44	Fast modulations of pulsating proton aurora related to subpacket structures of Pc1 geomagnetic pulsations at subauroral latitudes. <i>Geophysical Research Letters</i> , 2016 , 43, 7859-7866	4.9	11
43	Temporal and Spatial Correspondence of Pc1/EMIC Waves and Relativistic Electron Precipitations Observed With Ground-Based Multi-Instruments on 27 March 2017. <i>Geophysical Research Letters</i> , 2018 , 45, 13,182	4.9	11
42	Spatial Distribution of Fine-Structured and Unstructured EMIC Waves Observed by the Arase Satellite. <i>Geophysical Research Letters</i> , 2018 , 45, 11,530-11,538	4.9	11
41	Comprehensive Observations of Substorm-Enhanced Plasmaspheric Hiss Generation, Propagation, and Dissipation. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086040	4.9	10
40	Theory, modeling, and integrated studies in the Arase (ERG) project. <i>Earth, Planets and Space</i> , 2018 , 70,	2.9	10
39	Longitudinal Structure of Oxygen Torus in the Inner Magnetosphere: Simultaneous Observations by Arase and Van Allen Probe A. <i>Geophysical Research Letters</i> , 2018 , 45, 10,177-10,184	4.9	10
38	Nonlinear Generation Mechanism of EMIC Falling Tone Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9924-9933	2.6	9
37	Conjugate Observations of Dayside and Nightside VLF Chorus and QP Emissions Between Arase (ERG) and Kannuslehto, Finland. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA026663	2.6	9
36	Density Depletions Associated With Enhancements of Electron Cyclotron Harmonic Emissions: An ERG Observation. <i>Geophysical Research Letters</i> , 2018 , 45, 10,075-10,083	4.9	7
35	Oxygen torus and its coincidence with EMIC wave in the deep inner magnetosphere: Van Allen Probe B and Arase observations. <i>Earth, Planets and Space</i> , 2020 , 72, 111	2.9	6
34	A Multi-Instrument Approach to Determining the Source-Region Extent of EEP-Driving EMIC Waves. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086599	4.9	6
33	Instantaneous Frequency Analysis on Nonlinear EMIC Emissions: Arase Observation. <i>Geophysical Research Letters</i> , 2018 , 45, 13,199	4.9	6
32	Visualization tool for three-dimensional plasma velocity distributions (ISEE_3D) as a plug-in for SPEDAS. <i>Earth, Planets and Space</i> , 2017 , 69,	2.9	5

31	Arase Observation of the Source Region of Auroral Arcs and Diffuse Auroras in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027310	2.6	5
30	The Characteristics of EMIC Waves in the Magnetosphere Based on the Van Allen Probes and Arase Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029001	2.6	5
29	Plasma and Field Observations in the Magnetospheric Source Region of a Stable Auroral Red (SAR) Arc by the Arase Satellite on 28 March 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028068	2.6	4
28	Spatial Extent of Quasiperiodic Emissions Simultaneously Observed by Arase and Van Allen Probes on 29 November 2018. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028126	2.6	4
27	Energetic Electron Precipitation Associated With Pulsating Aurora Observed by VLF Radio Propagation During the Recovery Phase of a Substorm on 27 March 2017. <i>Geophysical Research Letters</i> , 2018 , 45, 12,651	4.9	4
26	Impulsively Excited Nightside Ultralow Frequency Waves Simultaneously Observed on and off the Magnetic Equator. <i>Geophysical Research Letters</i> , 2018 , 45, 7918-7926	4.9	4
25	An Ephemeral Red Arc Appeared at 68°MLat at a Pseudo Breakup During Geomagnetically Quiet Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028468	2.6	3
24	Pitch-Angle Scattering of Inner Magnetospheric Electrons Caused by ECH Waves Obtained With the Arase Satellite. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089926	4.9	3
23	Plasma Waves Causing Relativistic Electron Precipitation Events at International Space Station: Lessons From Conjunction Observations With Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027875	2.6	3
22	Evening Side EMIC Waves and Related Proton Precipitation Induced by a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029091	2.6	3
21	Active auroral arc powered by accelerated electrons from very high altitudes. <i>Scientific Reports</i> , 2021 , 11, 1610	4.9	3
20	Direct Comparison Between Magnetospheric Plasma Waves and Polar Mesosphere Winter Echoes in Both Hemispheres. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9626-9639	2.6	2
19	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028912	2.6	2
18	Data-Driven Simulation of Rapid Flux Enhancement of Energetic Electrons With an Upper-Band Whistler Burst. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028979	2.6	2
17	First Simultaneous Observation of a Night Time Medium-Scale Traveling Ionospheric Disturbance From the Ground and a Magnetospheric Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029086	2.6	2
16	Study of an Equatorward Detachment of Auroral Arc From the Oval Using Ground-Space Observations and the BATS-R-US/IMI Model. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029080	2.6	1
15	Multi-Event Analysis of Plasma and Field Variations in Source of Stable Auroral Red (SAR) Arcs in Inner Magnetosphere During Non-Storm-Time Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029081	2.6	1
14	ISEE_Wave: interactive plasma wave analysis tool. <i>Earth, Planets and Space</i> , 2021 , 73,	2.9	1

13	Discovery of proton hill in the phase space during interactions between ions and electromagnetic ion cyclotron waves. <i>Scientific Reports</i> , 2021 , 11, 13480	4.9	1
12	Multievent Study of Characteristics and Propagation of Naturally Occurring ELF/VLF Waves Using High-Latitude Ground Observations and Conjunctions With the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028682	2.6	1
11	Statistical properties of auroral kilometer radiation: based on ERG (ARASE) satellite data. <i>Solneĉno-zemna Fizika</i> , 2021 , 7, 11-16	1	1
10	Magnetic Field and Energetic Particle Flux Oscillations and High-Frequency Waves Deep in the Inner Magnetosphere During Substorm Dipolarization: ERG Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029095	2.6	1
9	Simultaneous Observations of EMIC-Induced Drifting Electron Holes (EDEHs) in the Earth's Radiation Belt by the Arase Satellite, Van Allen Probes, and THEMIS. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
8	Arase Observation of Simultaneous Electron Scatterings by Upper-Band and Lower-Band Chorus Emissions. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093708	4.9	0
7	Field-Aligned Electron Density Distribution of the Inner Magnetosphere Inferred From Coordinated Observations of Arase and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029073	2.6	0
6	Cross-Energy Couplings from Magnetosonic Waves to Electromagnetic Ion Cyclotron Waves through Cold Ion Heating inside the Plasmasphere.. <i>Physical Review Letters</i> , 2021 , 127, 245101	7.4	0
5	Relative Contribution of ULF Waves and Whistler-Mode Chorus to the Radiation Belt Variation During the May 2017 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028972	2.6	
4	Statistical properties of auroral kilometer radiation: based on ERG (ARASE) satellite data. <i>Solneĉno-zemna Fizika</i> , 2021 , 7, 13-20	0.3	
3	Extremely Collimated Electron Beams in the High Latitude Magnetosphere Observed by Arase. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090522	4.9	
2	A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029294	2.6	
1	Signatures of auroral potential structure extending through the near-equatorial inner magnetosphere. <i>Geophysical Research Letters</i> ,	4.9	