

Masafumi Shoji

List of Publications by Year in descending order

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74
papers

1,694
citations

361296

20
h-index

302012

39
g-index

80
all docs

80
docs citations

80
times ranked

1217
citing authors

#	ARTICLE	IF	CITATIONS
1	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	3.7	332
2	The ERG Science Center. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	124
3	The Plasma Wave Experiment (PWE) on board the Arase (ERG) satellite. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	124
4	High Frequency Analyzer (HFA) of Plasma Wave Experiment (PWE) onboard the Arase spacecraft. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	93
5	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.	0.8	59
6	Simulation of electromagnetic ion cyclotron triggered emissions in the Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	50
7	Mirror instability and ω -mode electromagnetic ion cyclotron instability: Competition in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	49
8	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, .	0.9	49
9	Electromagnetic ion cyclotron waves in the Earth's magnetosphere with a κ -Maxwellian particle distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8426-8439.	0.8	48
10	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.	0.8	47
11	Akebono observations of EMIC waves in the slot region of the radiation belts. <i>Geophysical Research Letters</i> , 2013, 40, 5587-5591.	1.5	40
12	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	1.6	37
13	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , 2018, 361, 1000-1003.	6.0	36
14	Subpacket structures in EMIC rising tone emissions observed by the THEMIS probes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7318-7330.	0.8	35
15	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.	0.8	35
16	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.	1.5	31
17	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.	1.5	29
18	Precipitation of highly energetic protons by helium branch electromagnetic ion cyclotron triggered emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26

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19	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.	0.8	26
20	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.	0.8	24
21	Comprehensive Observations of Substorm-Enhanced Plasmaspheric Hiss Generation, Propagation, and Dissipation. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086040.	1.5	21
22	Ion hole formation and nonlinear generation of electromagnetic ion cyclotron waves: THEMIS observations. <i>Geophysical Research Letters</i> , 2017, 44, 8730-8738.	1.5	18
23	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.	1.5	18
24	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.	0.8	18
25	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.	0.9	17
26	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.	1.5	16
27	Multidimensional nonlinear mirror-mode structures in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
28	Spatial Distribution of Fine-Structured and Unstructured EMIC Waves Observed by the Arase Satellite. <i>Geophysical Research Letters</i> , 2018, 45, 11,530.	1.5	14
29	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.	1.5	13
30	Instantaneous Frequency Analysis on Nonlinear EMIC Emissions: Arase Observation. <i>Geophysical Research Letters</i> , 2018, 45, 13,199.	1.5	13
31	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.	1.5	13
32	Evening Side EMIC Waves and Related Proton Precipitation Induced by a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029091.	0.8	13
33	Relation of the Plasmopause to the Midlatitude Ionospheric Trough, the Sub-Auroral Temperature Enhancement and the Distribution of Small-Scale Field Aligned Currents as Observed in the Magnetosphere by THEMIS, RBSP, and Arase, and in the Topside Ionosphere by Swarm. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	12
34	Theory, modeling, and integrated studies in the Arase (ERG) project. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	11
35	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.	2.9	11
36	Nonlinear Generation Mechanism of EMIC Falling Tone Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9924-9933.	0.8	10

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37	Density Depletions Associated With Enhancements of Electron Cyclotron Harmonic Emissions: An ERC Observation. <i>Geophysical Research Letters</i> , 2018, 45, 10,075.	1.5	10
38	A Multi-Instrument Approach to Determining the Source-Region Extent of EEP-Driving EMIC Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086599.	1.5	10
39	Discovery of proton hill in the phase space during interactions between ions and electromagnetic ion cyclotron waves. <i>Scientific Reports</i> , 2021, 11, 13480.	1.6	10
40	Collaborative Research Activities of the Arase and Van Allen Probes. <i>Space Science Reviews</i> , 2022, 218, .	3.7	10
41	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.	0.8	8
42	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.	0.8	8
43	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.	0.8	7
44	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.	0.8	7
45	Pitch-Angle Scattering of Inner Magnetospheric Electrons Caused by ECH Waves Obtained With the Arase Satellite. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089926.	1.5	7
46	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.	0.8	7
47	Visualization tool for three-dimensional plasma velocity distributions (ISEE_3D) as a plug-in for SPEDAS. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	6
48	Active auroral arc powered by accelerated electrons from very high altitudes. <i>Scientific Reports</i> , 2021, 11, 1610.	1.6	6
49	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.	0.8	6
50	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.	0.8	6
51	A Statistical Study of the Solar Wind Dependence of Multi-Harmonic Toroidal ULF Waves Observed by the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
52	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.	1.5	5
53	Impulsively Excited Nightside Ultralow Frequency Waves Simultaneously Observed on and off the Magnetic Equator. <i>Geophysical Research Letters</i> , 2018, 45, 7918-7926.	1.5	5
54	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.	0.8	5

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55	Plasma Waves Causing Relativistic Electron Precipitation Events at International Space Station: Lessons From Conjunction Observations With Arase Satellite. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027875.	0.8	5
56	Statistical properties of auroral kilometer radiation: based on ERG (ARASE) satellite data. SolneĀno-zemnaĀ Fizika, 2021, 7, 11-16.	0.2	4
57	Study of an equatorward detachment of auroral arc from the oval using groundĀspace observations and the BATSĀRĀUS Ā CIMI model. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029080.	0.8	4
58	Statistical Study of Approaching Strong Diffusion of LowĀEnergy Electrons by Chorus and ECH Waves Based on <i>In Situ</i> Observations. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
59	Multievent Study of Characteristics and Propagation of Naturally Occurring ELF/VLF Waves Using HighĀLatitude Ground Observations and Conjunctions With the Arase Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028682.	0.8	3
60	FieldĀAligned Electron Density Distribution of the Inner Magnetosphere Inferred From Coordinated Observations of Arase and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029073.	0.8	3
61	First Simultaneous Observation of a Night Time MediumĀScale Traveling Ionospheric Disturbance From the Ground and a Magnetospheric Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029086.	0.8	3
62	Simultaneous Observations of EMICĀInduced Drifting Electron Holes (EDEHs) in the Earth's Radiation Belt by the Arase Satellite, Van Allen Probes, and THEMIS. Geophysical Research Letters, 2022, 49, .	1.5	3
63	ISEE_Wave: interactive plasma wave analysis tool. Earth, Planets and Space, 2021, 73, .	0.9	2
64	Arase Observation of Simultaneous Electron Scatterings by UpperĀBand and LowerĀBand Chorus Emissions. Geophysical Research Letters, 2021, 48, e2021GL093708.	1.5	2
65	Magnetic Field and Energetic Particle Flux Oscillations and HighĀFrequency Waves Deep in the Inner Magnetosphere During Substorm Dipolarization: ERG Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029095.	0.8	2
66	Statistical properties of auroral kilometer radiation: based on ERG (ARASE) satellite data. SolneĀno-zemnaĀ Fizika, 2021, 7, 13-20.	0.1	1
67	Relative Contribution of ULF Waves and WhistlerĀmode Chorus to the Radiation Belt Variation during the May 2017 Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028972.	0.8	1
68	OffĀEquatorial Pi2 Pulsations Inside and Outside the Plasmapause Observed by the Arase Satellite. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	1
69	Signatures of Auroral Potential Structure Extending Through the NearĀEquatorial Inner Magnetosphere. Geophysical Research Letters, 2022, 49, .	1.5	1
70	Pitch angle scattering by electromagnetic ion cyclotron triggered emissions in the inner magnetosphere: Hybrid simulations. , 2011, , .		0
71	Instantaneous Frequency Analysis on Nonlinear EMIC Emissions: Arase Observation. , 2018, , .		0
72	Initial Results of EMIC Observation by MGF/Arase. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Extremely Collimated Electron Beams in the High Latitude Magnetosphere Observed by Arase. Geophysical Research Letters, 2021, 48, e2020GL090522.	1.5	0
74	A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029294.	0.8	0