

Satoshi Kurita

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,392
citations

394286

19
h-index

345118

36
g-index

66
all docs

66
docs citations

66
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsating aurora from electron scattering by chorus waves. <i>Nature</i> , 2018, 554, 337-340.	13.7	149
2	Energetic electron precipitation associated with pulsating aurora: EISCAT and Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2754-2766.	0.8	133
3	The ERG Science Center. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	124
4	Ground-based instruments of the PWING project to investigate dynamics of the inner magnetosphere at subauroral latitudes as a part of the ERG-ground coordinated observation network. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	74
5	Relation between fine structure of energy spectra for pulsating aurora electrons and frequency spectra of whistler mode chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7728-7736.	0.8	73
6	Diffuse and Pulsating Aurora. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	69
7	Relativistic Electron Microbursts as High-Energy Tail of Pulsating Aurora Electrons. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090360.	1.5	66
8	Onboard software of Plasma Wave Experiment aboard Arase: instrument management and signal processing of Waveform Capture/Onboard Frequency Analyzer. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	64
9	THEMIS observation of chorus elements without a gap at half the gyrofrequency. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	52
10	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
11	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	1.6	37
12	Visualization of rapid electron precipitation via chorus element wave-particle interactions. <i>Nature Communications</i> , 2019, 10, 257.	5.8	35
13	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
14	Multiple time-scale beats in aurora: precise orchestration via magnetospheric chorus waves. <i>Scientific Reports</i> , 2020, 10, 3380.	1.6	33
15	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
16	Statistical characterization of the forenoon particle and wave morphology: ARTEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4907-4921.	0.8	29
17	Electrostatic Electron Cyclotron Harmonic Waves as a Candidate to Cause Pulsating Auroras. <i>Geophysical Research Letters</i> , 2018, 45, 12,661.	1.5	29
18	Rapid Loss of Relativistic Electrons by EMIC Waves in the Outer Radiation Belt Observed by Arase, Van Allen Probes, and the PWING Ground Stations. <i>Geophysical Research Letters</i> , 2018, 45, 12,720.	1.5	25

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19	Microscopic Observations of Pulsating Aurora Associated With Chorus Element Structures: Coordinated Arase Satellite and P-WING Observations. <i>Geophysical Research Letters</i> , 2018, 45, 12,125.	1.5	24
20	Relativistic electron microbursts and variations in trapped MeV electron fluxes during the 8 th October 2012 storm: SAMPEX and Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2016, 43, 3017-3025.	1.5	17
21	Deformation of Electron Pitch Angle Distributions Caused by Upper Band Chorus Observed by the Arase Satellite. <i>Geophysical Research Letters</i> , 2018, 45, 7996-8004.	1.5	17
22	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
23	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
24	Extended lunar precursor regions: Electron-wave interaction. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9160-9173.	0.8	15
25	Waves in the innermost open boundary layer formed by dayside magnetopause reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3291-3307.	0.8	14
26	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
27	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
28	PSTEP: project for solar-terrestrial environment prediction. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	10
29	Collaborative Research Activities of the Arase and Van Allen Probes. <i>Space Science Reviews</i> , 2022, 218, .	3.7	10
30	Transient ionization of the mesosphere during auroral breakup: Arase satellite and ground-based conjugate observations at Syowa Station. <i>Earth, Planets and Space</i> , 2019, 71, .	0.9	9
31	Relativistic electron precipitations in association with diffuse aurora: Conjugate observation of SAMPEX and the all-sky TV camera at Syowa Station. <i>Geophysical Research Letters</i> , 2015, 42, 4702-4708.	1.5	8
32	Strong Diffusion of Energetic Electrons by Equatorial Chorus Waves in the Midnight-to-Dawn Sector. <i>Geophysical Research Letters</i> , 2019, 46, 12685-12692.	1.5	8
33	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
34	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
35	Observational evidence of electron pitch angle scattering driven by ECH waves. <i>Geophysical Research Letters</i> , 2014, 41, 8076-8080.	1.5	6
36	Active auroral arc powered by accelerated electrons from very high altitudes. <i>Scientific Reports</i> , 2021, 11, 1610.	1.6	6

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37	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
38	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
39	Tracking the Region of High Correlation Between Pulsating Aurora and Chorus: Simultaneous Observations With Arase Satellite and Ground-Based All-Sky Imager in Russia. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2769-2778.	0.8	5
40	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.	0.8	5
41	Purple Auroral Rays and Global Pc1 Pulsations Observed at the CIR-Associated Solar Wind Density Enhancement on 21 March 2017. <i>Geophysical Research Letters</i> , 2018, 45, 10,819.	1.5	4
42	Periodicities and Colors of Pulsating Auroras: DSLR Camera Observations From the International Space Station. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029564.	0.8	4
43	Inner Magnetospheric Response to the Interplanetary Magnetic Field B_y Component: Van Allen Probes and Arase Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028765.	0.8	4
44	Statistical Study of Approaching Strong Diffusion of Low-Energy Electrons by Chorus and ECH Waves Based on <i>In Situ</i> Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
45	Fine-Scale Visualization of Aurora in a Wide Area Using Color Digital Camera Images From the International Space Station. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027729.	0.8	3
46	Estimation of the emission altitude of pulsating aurora using the five-wavelength photometer. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	3
47	Altitude of pulsating arcs as inferred from tomographic measurements. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	3
48	Asymmetric Development of Auroral Surges in the Northern and Southern Hemispheres. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088750.	1.5	2
49	Overdarkening of Pulsating Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028838.	0.8	2
50	ISEE_Wave: interactive plasma wave analysis tool. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	2
51	Characterization and Calibration of High-Energy Electron Instruments Onboard the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029110.	0.8	2
52	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.	0.8	2
53	Discrete Rising Tone Elements of Whistler-Mode Waves in the Vicinity of the Moon: ARTEMIS Observations. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	2
54	Response of Relativistic Electron Microbursts to the Arrival of High-Speed Solar Wind Streams and its Relation to Flux Variation of Trapped Radiation Belt Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7452-7461.	0.8	1

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55	Global Maps of Solar Wind Electron Modification by Electrostatic Waves Above the Lunar Day Side: Kaguya Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095260.	1.5	1
56	Variations in Cosmic Noise Absorption in Association With Equatorward Development of the Pulsating Auroral Patch: A Case Study to Estimate the Energy Spectra of Auroral Precipitating Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029309.	0.8	0
57	Long-Term Monitoring of Energetic Protons at the Bottom of Earth's Radiation Belt. <i>Space Weather</i> , 2021, 19, e2020SW002611.	1.3	0