

# Satoshi Kasahara

## List of Publications by Year in descending order

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87  
papers

1,792  
citations

331538

21  
h-index

302012

39  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1458  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preferential Energization of Lower-Charge-State Heavier Ions in the Near-Earth Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
2	Superfast precipitation of energetic electrons in the radiation belts of the Earth. <i>Nature Communications</i> , 2022, 13, 1611.	5.8	27
3	Statistical Survey of Arase Satellite Data Sets in Conjunction With the Finnish Riometer Network. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	1
4	Signatures of Auroral Potential Structure Extending Through the Near-Equatorial Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1
5	Collaborative Research Activities of the Arase and Van Allen Probes. <i>Space Science Reviews</i> , 2022, 218, .	3.7	10
6	Investigation of Small-Scale Electron Density Irregularities Observed by the Arase and Van Allen Probes Satellites Inside and Outside the Plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA027917.	0.8	10
7	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
8	Energy-Resolved Detection of Precipitating Electrons of 30–100 keV by a Sounding Rocket Associated With Dayside Chorus Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028477.	0.8	2
9	Extremely Collimated Electron Beams in the High Latitude Magnetosphere Observed by Arase. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090522.	1.5	0
10	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
11	Low-Altitude Ion Upflow Observed by EISCAT and its Effects on Supply of Molecular Ions in the Ring Current Detected by Arase (ERG). <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028951.	0.8	2
12	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
13	Contribution of Electron Pressure to Ring Current and Ground Magnetic Depression Using RAM-SCB Simulations and Arase Observations During 7–8 November 2017 Magnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029109.	0.8	4
14	Arase Observation of Simultaneous Electron Scatterings by Upper-Band and Lower-Band Chorus Emissions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093708.	1.5	2
15	Rocket Observation of Sub-Relativistic Electrons in the Quiet Dayside Auroral Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028633.	0.8	2
16	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
17	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	1.6	37
18	Preliminary Statistical Comparisons of Spin-Averaged Electron Data From Arase and Van Allen Probes Instruments. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028929.	0.8	8

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19	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
20	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.	0.8	3
21	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.	0.8	1
22	Role of Ducting in Relativistic Electron Loss by Whistler-Mode Wave Scattering. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029851.	0.8	17
23	Study of an equatorward detachment of auroral arc from the oval using ground-space observations and the BATS-U.S. CIMI model. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029080.	0.8	4
24	In situ observations of ions and magnetic field around Phobos: the mass spectrum analyzer (MSA) for the Martian Moons eXploration (MMX) mission. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	14
25	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. <i>Astrophysical Journal</i> , 2021, 923, 151.	1.6	5
26	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
27	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
28	Comprehensive Observations of Substorm-Enhanced Plasmaspheric Hiss Generation, Propagation, and Dissipation. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086040.	1.5	21
29	Statistical Properties of Molecular Ions in the Ring Current Observed by the Arase (ERG) Satellite. <i>Geophysical Research Letters</i> , 2019, 46, 8643-8651.	1.5	8
30	Acceleration of Ions in Jovian Plasmoids: Does Turbulence Play a Role?. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5056-5069.	0.8	7
31	Meridional Distribution of Middle-Energy Protons and Pressure-Driven Currents in the Nightside Inner Magnetosphere: Arase Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5719-5733.	0.8	5
32	Cusp and Nightside Auroral Sources of $O^{+}$ in the Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10036-10047.	0.8	10
33	Electron Intensity Measurements by the Cluster/RAPID/IES Instrument in Earth's Radiation Belts and Ring Current. <i>Space Weather</i> , 2019, 17, 553-566.	1.3	13
34	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
35	Pulsating aurora from electron scattering by chorus waves. <i>Nature</i> , 2018, 554, 337-340.	13.7	149
36	Data processing in Software-type Wave-Particle Interaction Analyzer onboard the Arase satellite. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	12

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37	Geospace exploration project ERG. Earth, Planets and Space, 2018, 70, .	0.9	201
38	The ERG Science Center. Earth, Planets and Space, 2018, 70, .	0.9	124
39	Ion Energies Dominating Energy Density in the Inner Magnetosphere: Spatial Distributions and Composition, Observed by Arase/MEP. Geophysical Research Letters, 2018, 45, 12,153-12,162.	1.5	15
40	Magnetosphere-Ionosphere Connection of Storm-Time Region 2 Field-Aligned Current and Ring Current: Arase and AMPERE Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 9545-9559.	0.8	7
41	Deformation of Electron Pitch Angle Distributions Caused by Upper Band Chorus Observed by the Arase Satellite. Geophysical Research Letters, 2018, 45, 7996-8004.	1.5	17
42	Magnetic Field Dipolarization and Its Associated Ion Flux Variations in the Dawnside Deep Inner Magnetosphere: Arase Observations. Geophysical Research Letters, 2018, 45, 7942-7950.	1.5	2
43	Substorm-Associated Ionospheric Flow Fluctuations During the 27 March 2017 Magnetic Storm: SuperDARN-Arase Conjunction. Geophysical Research Letters, 2018, 45, 9441-9449.	1.5	9
44	Giant Pulsations Excited by a Steep Earthward Gradient of Proton Phase Space Density: Arase Observation. Geophysical Research Letters, 2018, 45, 6773-6781.	1.5	9
45	Drift-Bounce Resonance Between Pc5 Pulsations and Ions at Multiple Energies in the Nightside Magnetosphere: Arase and MMS Observations. Geophysical Research Letters, 2018, 45, 7277-7286.	1.5	14
46	Software-type Wave-Particle Interaction Analyzer on board the Arase satellite. Earth, Planets and Space, 2018, 70, .	0.9	21
47	Low-energy particle experiments-ion mass analyzer (LEPi) onboard the ERG (Arase) satellite. Earth, Planets and Space, 2018, 70, .	0.9	39
48	Medium-energy particle experiments-electron analyzer (MEP-e) for the exploration of energization and radiation in geospace (ERG) mission. Earth, Planets and Space, 2018, 70, .	0.9	57
49	High-energy electron experiments (HEP) aboard the ERG (Arase) satellite. Earth, Planets and Space, 2018, 70, .	0.9	29
50	Small satellites with MEMS x-ray telescopes for x-ray astronomy and solar system exploration. , 2018, , .		0
51	Ultralightweight x-ray telescope missions: ORBIS and GEO-X. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.0	8
52	Ion hole formation and nonlinear generation of electromagnetic ion cyclotron waves: THEMIS observations. Geophysical Research Letters, 2017, 44, 8730-8738.	1.5	18
53	Medium-energy particle experiments-ion mass analyzer (MEP-i) onboard ERG (Arase). Earth, Planets and Space, 2017, 69, .	0.9	47
54	Geospace exploration project: Arase (ERG). Journal of Physics: Conference Series, 2017, 869, 012095.	0.3	17

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55	Conceptual Design of an In Situ K-Ar Isochron Dating Instrument for Future Mars Rover Missions. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pk_89-Pk_94.	0.1	2
56	Weakening of Jupiter's main auroral emission during January 2014. Geophysical Research Letters, 2016, 43, 988-997.	1.5	50
57	Magnetic Reconnection and Associated Transient Phenomena Within the Magnetospheres of Jupiter and Saturn. Space Sciences Series of ISSI, 2016, , 181-227.	0.0	1
58	Transient internally driven aurora at Jupiter discovered by Hisaki and the Hubble Space Telescope. Geophysical Research Letters, 2015, 42, 1662-1668.	1.5	53
59	Properties of Jupiter's magnetospheric turbulence observed by the Galileo spacecraft. Journal of Geophysical Research: Space Physics, 2015, 120, 2477-2493.	0.8	35
60	Magnetic Reconnection and Associated Transient Phenomena Within the Magnetospheres of Jupiter and Saturn. Space Science Reviews, 2015, 187, 181-227.	3.7	16
61	Thin current sheets in the Jovian magnetotail. Planetary and Space Science, 2014, 96, 133-145.	0.9	32
62	JUXTA: A new probe of X-ray emission from the Jupiter system. Advances in Space Research, 2013, 51, 1605-1621.	1.2	14
63	Radiation background and dose estimates for future X-ray observations in the Jovian magnetosphere. Planetary and Space Science, 2013, 75, 129-135.	0.9	3
64	Acceleration of ions in the Jupiter magnetotail: Particle resonant interaction with dipolarization fronts. Planetary and Space Science, 2013, 82-83, 134-148.	0.9	18
65	Long-term modulations of Saturn's auroral radio emissions by the solar wind and seasonal variations controlled by the solar ultraviolet flux. Journal of Geophysical Research: Space Physics, 2013, 118, 7019-7035.	0.8	28
66	Asymmetric distribution of reconnection jet fronts in the Jovian nightside magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 375-384.	0.8	45
67	Significance of Wave-Particle Interaction Analyzer for direct measurements of nonlinear wave-particle interactions. Annales Geophysicae, 2013, 31, 503-512.	0.6	25
68	Rotational modulation and local time dependence of Saturn's infrared H <sub>3</sub> <sup>+</sup> auroral intensity. Journal of Geophysical Research, 2012, 117, .	3.3	33
69	Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs. Journal of Geophysical Research, 2012, 117, .	3.3	47
70	Correction to "Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs". Journal of Geophysical Research, 2012, 117, .	3.3	0
71	Field-aligned beams and reconnection in the jovian magnetotail. Icarus, 2012, 217, 55-65.	1.1	21
72	Variability of the minimum detectable energy of an APD as an electron detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 664, 282-288.	0.7	12

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73	Magnetic reconnection in the Jovian tail: X-line evolution and consequent plasma sheet structures. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	34
74	Cassini VIMS observations of latitudinal and hemispheric variations in Saturn's infrared auroral intensity. <i>Icarus</i> , 2011, 216, 367-375.	1.1	23
75	Development of an APD With Large Area and Thick Depletion Layer for Energetic Electron Measurements in Space. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1549-1555.	1.2	6
76	Spatial distributions of electromagnetic field variations and injection regions during the 20 November 2007 sawtooth event. <i>Annales Geophysicae</i> , 2009, 27, 3825-3840.	0.6	1
77	Next-Generation Plasma Particle Measurements in the Medium Energy Range: Development of Cusp Type Electrostatic Analyser and Ion Mass Spectrometer. , 2009, , .		0
78	A noise attenuation method for medium-energy electron measurements in the radiation belt. <i>Advances in Space Research</i> , 2009, 43, 792-801.	1.2	8
79	Application of single-sided silicon strip detector to energy and charge state measurements of medium energy ions in space. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 603, 355-360.	0.7	7
80	Simultaneous entry of oxygen ions originating from the Sun and Earth into the inner magnetosphere during magnetic storms. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	11
81	High-resolution detection of 100keV electrons using avalanche photodiodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 594, 50-55.	0.7	15
82	Cluster observations of energetic electrons and electromagnetic fields within a reconnecting thin current sheet in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
83	Medium Energy Ion Mass Spectrometer Capable of Measurements of Three-Dimensional Distribution Functions in Space. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 841-847.	0.6	4
84	Escape of high-energy oxygen ions through magnetopause reconnection under northward IMF. <i>Annales Geophysicae</i> , 2008, 26, 3955-3966.	0.6	12
85	Cusp type electrostatic analyzer for measurements of medium energy charged particles. <i>Review of Scientific Instruments</i> , 2006, 77, 123303.	0.6	18
86	The Energization and Radiation in Geospace (ERG) Project. <i>Geophysical Monograph Series</i> , 0, , 103-116.	0.1	33
87	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	1.6	11