

# Kunihiro Keika

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7307550/publications.pdf>

Version: 2024-02-01

91  
papers

2,474  
citations

236925

25  
h-index

214800

47  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1816  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	8.1	332
2	Global distribution of EMIC waves derived from THEMIS observations. Journal of Geophysical Research, 2012, 117, .	3.3	224
3	Radiation Belt Storm Probes Ion Composition Experiment (RBSPICE). Space Science Reviews, 2013, 179, 263-308.	8.1	155
4	Pulsating aurora from electron scattering by chorus waves. Nature, 2018, 554, 337-340.	27.8	149
5	The ERG Science Center. Earth, Planets and Space, 2018, 70, .	2.5	124
6	Global characteristics of electromagnetic ion cyclotron waves: Occurrence rate and its storm dependence. Journal of Geophysical Research: Space Physics, 2013, 118, 4135-4150.	2.4	120
7	Pileup accident hypothesis of magnetic storm on 17 March 2015. Geophysical Research Letters, 2015, 42, 5155-5161.	4.0	100
8	Energization of O <sup>+</sup> ions in the Earth's inner magnetosphere and the effects on ring current buildup: A review of previous observations and possible mechanisms. Journal of Geophysical Research: Space Physics, 2013, 118, 4441-4464.	2.4	94
9	An extensive survey of dayside diffuse aurora based on optical observations at Yellow River Station. Journal of Geophysical Research: Space Physics, 2015, 120, 7447-7465.	2.4	49
10	Magnetic field dipolarization in the deep inner magnetosphere and its role in development of O <sup>+</sup> ring current. Journal of Geophysical Research, 2010, 115, .	3.3	48
11	Formation of the oxygen torus in the inner magnetosphere: Van Allen Probes observations. Journal of Geophysical Research: Space Physics, 2015, 120, 1182-1196.	2.4	46
12	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. Scientific Reports, 2021, 11, 13724.	3.3	37
13	ELF/VLF wave propagation at subauroral latitudes: Conjugate observation between the ground and Van Allen Probes A. Journal of Geophysical Research: Space Physics, 2016, 121, 5384-5393.	2.4	36
14	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). Space Science Reviews, 2021, 217, 1.	8.1	32
15	Response of the inner magnetosphere and the plasma sheet to a sudden impulse. Journal of Geophysical Research, 2008, 113, .	3.3	31
16	EMIC Waves Converted From Equatorial Noise Due to $M/Q = 2$ Ions in the Plasmasphere: Observations From Van Allen Probes and Arase. Geophysical Research Letters, 2019, 46, 5662-5669.	4.0	31
17	Outflow of energetic ions from the magnetosphere and its contribution to the decay of the storm time ring current. Journal of Geophysical Research, 2005, 110, .	3.3	30
18	Contribution of charge exchange loss to the storm time ring current decay: IMAGE/HENA observations. Journal of Geophysical Research, 2006, 111, .	3.3	30

#	ARTICLE	IF	CITATIONS
19	Nighttime enhancement of the amplitude of geomagnetic sudden commencements and its dependence on IMF-Bz. <i>Earth, Planets and Space</i> , 2006, 58, 45-50.	2.5	30
20	Substorm expansion triggered by a sudden impulse front propagating from the dayside magnetopause. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	30
21	PENGUIn/AGO and THEMIS conjugate observations of whistler mode chorus waves in the dayside uniform zone under steady solar wind and quiet geomagnetic conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
22	Observations of plasma vortices in the vicinity of flow-braking: a case study. <i>Annales Geophysicae</i> , 2009, 27, 3009-3017.	1.6	28
23	Van Allen Probes observations of magnetic field dipolarization and its associated O <sup>+</sup> flux variations in the inner magnetosphere at $L \leq 6.6$ . <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7572-7589.	2.4	28
24	Superfast precipitation of energetic electrons in the radiation belts of the Earth. <i>Nature Communications</i> , 2022, 13, 1611.	12.8	27
25	On the origin of the energetic ion events measured upstream of the Earth's bow shock by STEREO, Cluster, and Geotail. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	26
26	Magnetic fluctuations embedded in dipolarization inside geosynchronous orbit and their associated selective acceleration of O <sup>+</sup> ions. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4639-4655.	2.4	26
27	Mass-dependent evolution of energetic neutral atoms energy spectra during storm time substorms: Implication for O <sup>+</sup> nonadiabatic acceleration. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
28	Van Allen Probes Observations of Drift-Bounce Resonance and Energy Transfer Between Energetic Ring Current Protons and Poloidal Pc4 Wave. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3421-3435.	2.4	22
29	Comprehensive Observations of Substorm-Enhanced Plasmaspheric Hiss Generation, Propagation, and Dissipation. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086040.	4.0	21
30	Eastward Propagating Second Harmonic Poloidal Waves Triggered by Temporary Outward Gradient of Proton Phase Space Density: Van Allen Probe A Observation. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9904-9923.	2.4	19
31	Ion hole formation and nonlinear generation of electromagnetic ion cyclotron waves: THEMIS observations. <i>Geophysical Research Letters</i> , 2017, 44, 8730-8738.	4.0	18
32	A method for estimating the ring current structure and the electric potential distribution using energetic neutral atom data assimilation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
33	What caused the rapid recovery of the Carrington storm?. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	17
34	Role of Ducting in Relativistic Electron Loss by Whistler-Mode Wave Scattering. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029851.	2.4	17
35	Acceleration sites of energetic ions upstream of the Earth's bow shock and in the magnetosheath: Statistical study on charge states of heavy ions. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	16
36	~Cosmic-ray-mediated~ interplanetary shocks in 1994 and 2003. <i>Advances in Space Research</i> , 2006, 37, 1408-1412.	2.6	16

#	ARTICLE	IF	CITATIONS
37	Inductive electric fields in the inner magnetosphere during geomagnetically active periods. Journal of Geophysical Research, 2010, 115, .	3.3	16
38	Storm time impulsive enhancements of energetic oxygen due to adiabatic acceleration of preexisting warm oxygen in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 7739-7752.	2.4	15
39	Ion Energies Dominating Energy Density in the Inner Magnetosphere: Spatial Distributions and Composition, Observed by Arase/MEP&Circ. Geophysical Research Letters, 2018, 45, 12,153-12,162.	4.0	15
40	First application of a Petschek&Circ-type reconnection model with time&Circ-varying reconnection rate to THEMIS observations. Journal of Geophysical Research, 2009, 114, .	3.3	14
41	Evolution of ring current ion energy spectra during the storm recovery phase: Implication for dominant ion loss processes. Journal of Geophysical Research, 2011, 116, .	3.3	14
42	Initial measurements of O&Circ-ion and He&Circ-ion decay rates observed from the Van Allen probes RBSPICE instrument. Journal of Geophysical Research: Space Physics, 2014, 119, 8813-8819.	2.4	14
43	Drift&Circ-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.	4.0	14
44	In situ observations of ions and magnetic field around Phobos: the mass spectrum analyzer (MSA) for the Martian Moons eXploration (MMX) mission. Earth, Planets and Space, 2021, 73, .	2.5	14
45	Deformation and evolution of solar wind discontinuities through their interactions with the Earth's bow shock. Journal of Geophysical Research, 2009, 114, .	3.3	13
46	Three&Circ-Step Buildup of the 17 March 2015 Storm Ring Current: Implication for the Cause of the Unexpected Storm Intensification. Journal of Geophysical Research: Space Physics, 2018, 123, 414-428.	2.4	13
47	Evening Side EMIC Waves and Related Proton Precipitation Induced by a Substorm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029091.	2.4	13
48	Plasma sheet changes caused by sudden enhancements of the solar wind pressure. Journal of Geophysical Research, 2010, 115, .	3.3	12
49	Characteristics of CME&Circ-and CIR&Circ-Driven Ion Upflows in the Polar Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 3637-3649.	2.4	12
50	Escape of high-energy oxygen ions through magnetopause reconnection under northward IMF. Annales Geophysicae, 2008, 26, 3955-3966.	1.6	12
51	Theory, modeling, and integrated studies in the Arase (ERG) project. Earth, Planets and Space, 2018, 70, .	2.5	11
52	Radiation Belt Storm Probes Ion Composition Experiment (RBSPICE). , 2013, , 263-308.		11
53	Convective amplification of electromagnetic ion cyclotron waves from ring&Circ-distribution protons in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 7538-7544.	2.4	10
54	Cusp and Nightside Auroral Sources of O<sup>+</sup> in the Plasma Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 10036-10047.	2.4	10

#	ARTICLE	IF	CITATIONS
55	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.	2.4	10
56	Chorus wave generation near the dawnside magnetopause due to drift shell splitting of substorm-injected electrons. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
57	Giant Pulsations Excited by a Steep Earthward Gradient of Proton Phase Space Density: Arase Observation. <i>Geophysical Research Letters</i> , 2018, 45, 6773-6781.	4.0	9
58	Radial Transport of Higher-Energy Oxygen Ions Into the Deep Inner Magnetosphere Observed by Van Allen Probes. <i>Geophysical Research Letters</i> , 2018, 45, 4534-4541.	4.0	8
59	Statistical Properties of Molecular Ions in the Ring Current Observed by the Arase (ERG) Satellite. <i>Geophysical Research Letters</i> , 2019, 46, 8643-8651.	4.0	8
60	Strong Diffusion of Energetic Electrons by Equatorial Chorus Waves in the Midnight-to-Dawn Sector. <i>Geophysical Research Letters</i> , 2019, 46, 12685-12692.	4.0	8
61	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.	2.4	8
62	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.	2.4	8
63	Magnetosphere-Ionosphere Connection of Storm-Time Region-2 Field-Aligned Current and Ring Current: Arase and AMPERE Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9545-9559.	2.4	7
64	Statistical Study of Selective Oxygen Increase in High-Energy Ring Current Ions During Magnetic Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3193-3209.	2.4	7
65	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.	2.4	7
66	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.	2.4	7
67	Simultaneous FAST and Double Star TC1 observations of broadband electrons during a storm time substorm. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	6
68	Visualization tool for three-dimensional plasma velocity distributions (ISEE_3D) as a plug-in for SPEDAS. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	6
69	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.	2.4	6
70	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.	2.4	5
71	On the relationship between energy input to the ionosphere and the ion outflow flux under different solar zenith angles. <i>Earth, Planets and Space</i> , 2021, 73, 202.	2.5	5
72	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. <i>Astrophysical Journal</i> , 2021, 923, 151.	4.5	5

#	ARTICLE	IF	CITATIONS
73	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. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029109.	2.4	4
74	Study of an equatorward detachment of auroral arc from the oval using ground-space observations and the BATSRUS-CIMI model. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029080.	2.4	4
75	Plasma sheet oscillations and their relation to substorm development: Cluster and double star TC1 case study. Advances in Space Research, 2008, 41, 1585-1592.	2.6	3
76	First Simultaneous Observation of a Night Time Medium-Scale Traveling Ionospheric Disturbance From the Ground and a Magnetospheric Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029086.	2.4	3
77	Preferential Energization of Lower-Energy State Heavier Ions in the Near-Earth Magnetotail. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	3
78	Magnetic Field Dipolarization and Its Associated Ion Flux Variations in the Dawnside Deep Inner Magnetosphere: Arase Observations. Geophysical Research Letters, 2018, 45, 7942-7950.	4.0	2
79	Energy-Resolved Detection of Precipitating Electrons of 30–100 keV by a Sounding Rocket Associated With Dayside Chorus Waves. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028477.	2.4	2
80	Low-Altitude Ion Upflow Observed by EISCAT and its Effects on Supply of Molecular Ions in the Ring Current Detected by Arase (ERG). Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028951.	2.4	2
81	Characterization and Calibration of High-Energy Electron Instruments Onboard the Arase Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029110.	2.4	2
82	Magnetic Field and Energetic Particle Flux Oscillations and High-Frequency Waves Deep in the Inner Magnetosphere During Substorm Dipolarization: ERG Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029095.	2.4	2
83	Magnetic field depression at the Earth's surface during energetic neutral atom emission fade-out in the inner magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	1
84	Relative Contribution of ULF Waves and Whistler-mode Chorus to the Radiation Belt Variation during the May 2017 Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028972.	2.4	1
85	Statistical Survey of Arase Satellite Data Sets in Conjunction With the Finnish Riometer Network. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	1
86	Signatures of Auroral Potential Structure Extending Through the Near-Equatorial Inner Magnetosphere. Geophysical Research Letters, 2022, 49, .	4.0	1
87	Geomagnetic Activity Dependence of Occurrence Probability and Spatial Distribution of Upstream Events. COSPAR Colloquia Series, 2005, , 297-300.	0.2	0
88	Observations of loss cone-shaped back streaming energetic protons upstream of the Earth's bow shock. Journal of Geophysical Research, 2009, 114, .	3.3	0
89	Initial Results of EMIC Observation by MGF/Arase. , 2018, , .		0
90	Statistical Study on Electron and Ion Temperatures in the Near-Earth Reconnection and Magnetic Pileup Regions. Geophysical Research Letters, 2019, 46, 14223-14229.	4.0	0

#	ARTICLE	IF	CITATIONS
91	Global characteristics of cold protons around midnight in the magnetotail: Implication for efficient heating and origin. Journal of Geophysical Research: Space Physics, 0, , .	2.4	0