# Kunihiro Keika

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 91 papers | 2,474 citations | 236612 25 h-index | 214527 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. | 3.7 | 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. | 3.7 | 155 |
| 4 | Pulsating aurora from electron scattering by chorus waves. Nature, 2018, 554, 337-340. | 13.7 | 149 |
| 5 | The ERG Science Center. Earth, Planets and Space, 2018, 70, . | 0.9 | 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. | 0.8 | 120 |
| 7 | Pileup accident hypothesis of magnetic storm on 17 March 2015. Geophysical Research Letters, 2015, 42, 5155-5161. | 1.5 | 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. | 0.8 | 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. | 0.8 | 49 |
| 10 | Magnetic field dipolarization in the deep inner magnetosphere and its role in development of O<sup>+</sup>â€rich 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. | 0.8 | 46 |
| 12 | Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. Scientific Reports, 2021, 11, 13724. | 1.6 | 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. | 0.8 | 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. | 3.7 | 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. | 1.5 | 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 |

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|---|---|---|---|
| 19 | Nighttime enhancement of the amplitude of geomagnetic sudden commencements and its dependence on IMF-Bz. Earth, Planets and Space, 2006, 58, 45-50. | 0.9 | 30 |
| 20 | Substorm expansion triggered by a sudden impulse front propagating from the dayside magnetopause. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2012, 117, . | 3.3 | 30 |
| 22 | Observations of plasma vortices in the vicinity of flow-braking: a case study. Annales Geophysicae, 2009, 27, 3009-3017. | 0.6 | 28 |
| 23 | Van Allen Probes observations of magnetic field dipolarization and its associated O<sup>+</sup> flux variations in the inner magnetosphere at Lâ€‰<â€‰6.6. Journal of Geophysical Research: Space Physics, 2016, 121, 7572-7589. | 0.8 | 28 |
| 24 | Superfast precipitation of energetic electrons in the radiation belts of the Earth. Nature Communications, 2022, 13, 1611. | 5.8 | 27 |
| 25 | On the origin of the energetic ion events measured upstream of the Earth's bow shock by STEREO, Cluster, and Geotail. Journal of Geophysical Research, 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. Journal of Geophysical Research: Space Physics, 2014, 119, 4639-4655. | 0.8 | 26 |
| 27 | Massâ€dependent evolution of energetic neutral atoms energy spectra during storm time substorms: Implication for O<sup>+</sup> nonadiabatic acceleration. Journal of Geophysical Research, 2010, 115, . | 3.3 | 24 |
| 28 | Van Allen Probes Observations of Driftâ€Bounce Resonance and Energy Transfer Between Energetic Ring Current Protons and Poloidal Pc4 Wave. Journal of Geophysical Research: Space Physics, 2018, 123, 3421-3435. | 0.8 | 22 |
| 29 | Comprehensive Observations of Substormâ€Enhanced Plasmaspheric Hiss Generation, Propagation, and Dissipation. Geophysical Research Letters, 2020, 47, e2019GL086040. | 1.5 | 21 |
| 30 | Eastward Propagating Second Harmonic Poloidal Waves Triggered by Temporary Outward Gradient of Proton Phase Space Density: Van Allen Probe A Observation. Journal of Geophysical Research: Space Physics, 2019, 124, 9904-9923. | 0.8 | 19 |
| 31 | Ion hole formation and nonlinear generation of electromagnetic ion cyclotron waves: THEMIS observations. Geophysical Research Letters, 2017, 44, 8730-8738. | 1.5 | 18 |
| 32 | A method for estimating the ring current structure and the electric potential distribution using energetic neutral atom data assimilation. Journal of Geophysical Research, 2008, 113, . | 3.3 | 17 |
| 33 | What caused the rapid recovery of the Carrington storm?. Earth, Planets and Space, 2015, 67, . | 0.9 | 17 |
| 34 | Role of Ducting in Relativistic Electron Loss by Whistlerâ€Mode Wave Scattering. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029851. | 0.8 | 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. Journal of Geophysical Research, 2004, 109, . | 3.3 | 16 |
| 36 | â€˜Cosmic-ray-mediatedâ€™ interplanetary shocks in 1994 and 2003. Advances in Space Research, 2006, 37, 1408-1412. | 1.2 | 16 |

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|---|---|---|---|
| 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. | 0.8 | 15 |
| 39 | Ion Energies Dominating Energy Density in the Inner Magnetosphere: Spatial Distributions and Composition, Observed by Arase/MEPâ€i. Geophysical Research Letters, 2018, 45, 12,153-12,162. | 1.5 | 15 |
| 40 | First application of a Petschekâ€type reconnection model with timeâ€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 Oâ€ion and Heâ€ion decay rates observed from the Van Allen probes RBSPICE instrument. Journal of Geophysical Research: Space Physics, 2014, 119, 8813-8819. | 0.8 | 14 |
| 43 | Driftâ€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 |
| 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, . | 0.9 | 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 | Threeâ€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. | 0.8 | 13 |
| 47 | Evening Side EMIC Waves and Related Proton Precipitation Induced by a Substorm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029091. | 0.8 | 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 CMEâ€and CIRâ€Driven Ion Upflows in the Polar Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 3637-3649. | 0.8 | 12 |
| 50 | Escape of high-energy oxygen ions through magnetopause reconnection under northward IMF. Annales Geophysicae, 2008, 26, 3955-3966. | 0.6 | 12 |
| 51 | Theory, modeling, and integrated studies in the Arase (ERG) project. Earth, Planets and Space, 2018, 70, . | 0.9 | 11 |
| 52 | Radiation Belt Storm Probes Ion Composition Experiment (RBSPICE). , 2013, , 263-308. | | 11 |
| 53 | Convective amplification of electromagnetic ion cyclotron waves from ringâ€distribution protons in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 7538-7544. | 0.8 | 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. | 0.8 | 10 |

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|---|---|---|---|
| 55 | Investigation of Smallâ€Scale Electron Density Irregularities Observed by the Arase and Van Allen Probes Satellites Inside and Outside the Plasmasphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA027917. | 0.8 | 10 |
| 56 | Chorus wave generation near the dawnside magnetopause due to drift shell splitting of substormâ€injected electrons. Journal of Geophysical Research, 2010, 115, . | 3.3 | 9 |
| 57 | 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 |
| 58 | Radial Transport of Higherâ€Energy Oxygen Ions Into the Deep Inner Magnetosphere Observed by Van Allen Probes. Geophysical Research Letters, 2018, 45, 4534-4541. | 1.5 | 8 |
| 59 | Statistical Properties of Molecular Ions in the Ring Current Observed by the Arase (ERG) Satellite. Geophysical Research Letters, 2019, 46, 8643-8651. | 1.5 | 8 |
| 60 | Strong Diffusion of Energetic Electrons by Equatorial Chorus Waves in the Midnightâ€toâ€Dawn Sector. Geophysical Research Letters, 2019, 46, 12685-12692. | 1.5 | 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. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028068. | 0.8 | 8 |
| 62 | Preliminary Statistical Comparisons of Spinâ€Averaged Electron Data From Arase and Van Allen Probes Instruments. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028929. | 0.8 | 8 |
| 63 | Magnetosphereâ€Ionosphere Connection of Stormâ€Time Regionâ€2 Fieldâ€Aligned Current and Ring Current: Arase and AMPERE Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 9545-9559. | 0.8 | 7 |
| 64 | Statistical Study of Selective Oxygen Increase in Highâ€Energy Ring Current Ions During Magnetic Storms. Journal of Geophysical Research: Space Physics, 2019, 124, 3193-3209. | 0.8 | 7 |
| 65 | Arase Observation of the Source Region of Auroral Arcs and Diffuse Auroras in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027310. | 0.8 | 7 |
| 66 | Multiâ€Event Analysis of Plasma and Field Variations in Source of Stable Auroral Red (SAR) Arcs in Inner Magnetosphere During Nonâ€Stormâ€Time Substorms. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029081. | 0.8 | 7 |
| 67 | Simultaneous FAST and Double Star TC1 observations of broadband electrons during a storm time substorm. Journal of Geophysical Research, 2010, 115, . | 3.3 | 6 |
| 68 | Visualization tool for three-dimensional plasma velocity distributions (ISEE_3D) as a plug-in for SPEDAS. Earth, Planets and Space, 2017, 69, . | 0.9 | 6 |
| 69 | Dataâ€Driven Simulation of Rapid Flux Enhancement of Energetic Electrons With an Upperâ€Band Whistler Burst. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028979. | 0.8 | 6 |
| 70 | Meridional Distribution of Middleâ€Energy Protons and Pressureâ€Driven Currents in the Nightside Inner Magnetosphere: Arase Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 5719-5733. | 0.8 | 5 |
| 71 | On the relationship between energy input to the ionosphere and the ion outflow flux under different solar zenith angles. Earth, Planets and Space, 2021, 73, 202. | 0.9 | 5 |
| 72 | Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. Astrophysical Journal, 2021, 923, 151. | 1.6 | 5 |

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|---|---|---|---|
| 73 | Contribution of Electron Pressure to Ring Current and Ground Magnetic Depression Using RAMâ€SCB Simulations and Arase Observations During 7â€“8 November 2017 Magnetic Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029109. | 0.8 | 4 |
| 74 | Study of an equatorward detachment of auroral arc from the oval using groundâ€space observations and the BATSâ€Râ€US â€“ CIMI model. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029080. | 0.8 | 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. | 1.2 | 3 |
| 76 | First Simultaneous Observation of a Night Time Mediumâ€Scale Traveling Ionospheric Disturbance From the Ground and a Magnetospheric Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029086. | 0.8 | 3 |
| 77 | Preferential Energization of Lowerâ€Chargeâ€State Heavier Ions in the Nearâ€Earth Magnetotail. Journal of Geophysical Research: Space Physics, 2022, 127, . | 0.8 | 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. | 1.5 | 2 |
| 79 | Energyâ€Resolved Detection of Precipitating Electrons of 30â€“100ÂkeV by a Sounding Rocket Associated With Dayside Chorus Waves. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028477. | 0.8 | 2 |
| 80 | Lowâ€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. | 0.8 | 2 |
| 81 | Characterization and Calibration of Highâ€Energy Electron Instruments Onboard the Arase Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029110. | 0.8 | 2 |
| 82 | Magnetic Field and Energetic Particle Flux Oscillations and Highâ€Frequency Waves Deep in the Inner Magnetosphere During Substorm Dipolarization: ERG Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029095. | 0.8 | 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 Whistlerâ€mode Chorus to the Radiation Belt Variation during the May 2017 Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028972. | 0.8 | 1 |
| 85 | Statistical Survey of Arase Satellite Data Sets in Conjunction With the Finnish Riometer Network. Journal of Geophysical Research: Space Physics, 2022, 127, . | 0.8 | 1 |
| 86 | Signatures of Auroral Potential Structure Extending Through the Nearâ€Equatorial Inner Magnetosphere. Geophysical Research Letters, 2022, 49, . | 1.5 | 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 coneâ€“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 Nearâ€Earth Reconnection and Magnetic Pileup Regions. Geophysical Research Letters, 2019, 46, 14223-14229. | 1.5 | 0 |

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|---|---|---|---|
| 91 | Global characteristics of cold protons around midnight in the magnetotail: Implication for efficient heating and origin. Journal of Geophysical Research: Space Physics, 0, , . | 0.8 | 0 |