

Ryuhō Kataoka

List of Publications by Year in descending order

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132
papers

3,433
citations

172457

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182427

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139
all docs

139
docs citations

139
times ranked

2502
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Diffuse Auroral Emission at Mars: Contribution of MeV Protons. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	10
2	EMICâ€Wave Driven Electron Precipitation Observed by CALET on the International Space Station. Geophysical Research Letters, 2022, 49, .	4.0	5
3	Slow Contraction of Flash Aurora Induced by an Isolated Chorus Element Ranging From Lowerâ€Band to Upperâ€Band Frequencies in the Source Region. Geophysical Research Letters, 2022, 49, .	4.0	3
4	CALET Search for Electromagnetic Counterparts of Gravitational Waves during the LIGO/Virgo O3 Run. Astrophysical Journal, 2022, 933, 85.	4.5	3
5	New cosmic ray observations at Syowa Station in the Antarctic for space weather study. Journal of Space Weather and Space Climate, 2021, 11, 31.	3.3	4
6	Formation and Release of the Harang Reversal Relating With the Substorm Onset Process. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	6
7	Editorial: Topical Collection on Auroral Physics. Space Science Reviews, 2021, 217, 1.	8.1	4
8	Small-Scale Dynamic Aurora. Space Science Reviews, 2021, 217, 17.	8.1	10
9	A Peculiar ICME Event in August 2018 Observed With the Global Muon Detector Network. Space Weather, 2021, 19, e2020SW002531.	3.7	7
10	Space weather benchmarks on Japanese society. Earth, Planets and Space, 2021, 73, .	2.5	12
11	Global Simulation of the Jovian Magnetosphere: Transitional Structure From the Io Plasma Disk to the Plasma Sheet. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029232.	2.4	4
12	Spatial Evolution of Waveâ€Particle Interaction Region Deduced From Flashâ€Type Auroras and Chorusâ€Ray Tracing. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029254.	2.4	3
13	PSTEP: project for solarâ€terrestrial environment prediction. Earth, Planets and Space, 2021, 73, .	2.5	10
14	Development of the substorm as a manifestation of convection transient. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028942.	2.4	3
15	Periodicities and Colors of Pulsating Auroras: DSLR Camera Observations From the International Space Station. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029564.	2.4	4
16	Auroral zone over the last 3000 years. Journal of Space Weather and Space Climate, 2021, 11, 46.	3.3	3
17	Reconstructing Solar Wind Profiles Associated With Extreme Magnetic Storms: A Machine Learning Approach. Geophysical Research Letters, 2021, 48, e2021GL096275.	4.0	6
18	Roles of the Mâ€Coupling and Plasma Sheet Dissipation on the Growthâ€Phase Thinning and Subsequent Transition to the Onset. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	6

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19	Radiation Dose During Relativistic Electron Precipitation Events at the International Space Station. <i>Space Weather</i> , 2020, 18, e2019SW002280.	3.7	3
20	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.	2.4	5
21	Asymmetric Development of Auroral Surges in the Northern and Southern Hemispheres. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088750.	4.0	2
22	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.	2.4	3
23	Multiple time-scale beats in aurora: precise orchestration via magnetospheric chorus waves. <i>Scientific Reports</i> , 2020, 10, 3380.	3.3	33
24	Reproduction of Ground Magnetic Variations During the SC and the Substorm From the Global Simulation and Biot-Savart's Law. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027172.	2.4	13
25	Diffuse and Pulsating Aurora. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	69
26	Extreme geomagnetic activities: a statistical study. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	13
27	Magnetosphere-Ionosphere Convection Under the Due Northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6812-6832.	2.4	8
28	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.	2.4	7
29	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, .	2.5	9
30	A Dynamical Model of the Heliosphere with the Adaptive Mesh Refinement. <i>Journal of Physics: Conference Series</i> , 2019, 1225, 012008.	0.4	2
31	The CALorimetric Electron Telescope (CALET) on the International Space Station: Results from the First Two Years of Operation. <i>EPJ Web of Conferences</i> , 2019, 208, 13001.	0.3	0
32	Fan-shaped aurora as seen from Japan during a great magnetic storm on February 11, 1958. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A16.	3.3	8
33	A watercolor painting of northern lights seen above Japan on 11 February 1958. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A28.	3.3	6
34	Visualization of rapid electron precipitation via chorus element wave-particle interactions. <i>Nature Communications</i> , 2019, 10, 257.	12.8	35
35	Nowcast and forecast of galactic cosmic ray (GCR) and solar energetic particle (SEP) fluxes in magnetosphere and ionosphere - Extension of WASAVIES to Earth orbit. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A9.	3.3	6
36	Development of Magnetic Topology During the Growth Phase of the Substorm Inducing the Onset of the Near-Earth Neutral Line. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5158-5183.	2.4	12

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37	The CALorimetric Electron Telescope (CALET) on the International Space Station: Results from the First Two Years On Orbit. <i>Journal of Physics: Conference Series</i> , 2019, 1181, 012003.	0.4	6
38	On-orbit operations and offline data processing of CALET onboard the ISS. <i>Astroparticle Physics</i> , 2018, 100, 29-37.	4.3	26
39	Discovery of 1ÂHz Range Modulation of Isolated Proton Aurora at Subauroral Latitudes. <i>Geophysical Research Letters</i> , 2018, 45, 1209-1217.	4.0	18
40	COMPARISON OF COSMIC-RAY ENVIRONMENTS ON EARTH, MOON, MARS AND IN SPACECRAFT USING PHITS. <i>Radiation Protection Dosimetry</i> , 2018, 180, 146-149.	0.8	17
41	Cooperatives Roles of Dynamics and Topology in Generating the Magnetosphereâ€šlonosphere Disturbances: Case of the Theta Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9991.	2.4	13
42	Microscopic Observations of Pulsating Aurora Associated With Chorus Element Structures: Coordinated Arase Satelliteâ€šPWING Observations. <i>Geophysical Research Letters</i> , 2018, 45, 12,125.	4.0	24
43	Characteristics and Performance of the CALorimetric Electron Telescope (CALET) Calorimeter for Gamma-Ray Observations. <i>Astrophysical Journal, Supplement Series</i> , 2018, 238, 5.	7.7	16
44	Dawnside Wedge Current System Formed During Intense Geomagnetic Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9093-9109.	2.4	14
45	Radiation Dose Nowcast for the Ground Level Enhancement on 10â€“11 September 2017. <i>Space Weather</i> , 2018, 16, 917-923.	3.7	21
46	Real Time and Automatic Analysis Program for WASAVIES: Warning System for Aviation Exposure to Solar Energetic Particles. <i>Space Weather</i> , 2018, 16, 924-936.	3.7	20
47	Solar rotational cycle in lightning activity in Japan during the 18â€“19th centuries. <i>Annales Geophysicae</i> , 2018, 36, 633-640.	1.6	7
48	Search for GeV Gamma-Ray Counterparts of Gravitational Wave Events by CALET. <i>Astrophysical Journal</i> , 2018, 863, 160.	4.5	10
49	Historical space weather monitoring of prolonged aurora activities in Japan and in China. <i>Space Weather</i> , 2017, 15, 392-402.	3.7	14
50	Geomagnetically induced currents: Science, engineering, and applications readiness. <i>Space Weather</i> , 2017, 15, 828-856.	3.7	149
51	First evidence of patchy flickering aurora modulated by multiâ€šion electromagnetic ion cyclotron waves. <i>Geophysical Research Letters</i> , 2017, 44, 3963-3970.	4.0	8
52	Global simulation study for the time sequence of events leading to the substorm onset. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6210-6239.	2.4	26
53	Cosmic ray modulation and radiation dose of aircrews during the solar cycle 24/25. <i>Space Weather</i> , 2017, 15, 589-605.	3.7	20
54	Inclined Zenith Aurora over Kyoto on 17 September 1770: Graphical Evidence of Extreme Magnetic Storm. <i>Space Weather</i> , 2017, 15, 1314-1320.	3.7	18

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55	The earliest drawings of datable auroras and a two-tail comet from the Syriac Chronicle of Zāqnān. Publication of the Astronomical Society of Japan, 2017, 69, .	2.5	18
56	Formation of the Sun-aligned arc region and the void (polar slot) under the null-separator structure. Journal of Geophysical Research: Space Physics, 2017, 122, 4102-4116.	2.4	23
57	Ionization of protoplanetary disks by galactic cosmic rays, solar protons, and supernova remnants. Geoscience Frontiers, 2017, 8, 247-252.	8.4	6
58	Solar 27-day rotational period detected in wide-area lightning activity in Japan. Annales Geophysicae, 2017, 35, 583-588.	1.6	8
59	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. Earth, Planets and Space, 2017, 69, .	2.5	74
60	Searching for the 27-day solar rotational cycle in lightning events recorded in old diaries in Kyoto from the 17th to 18th century. Annales Geophysicae, 2017, 35, 1195-1200.	1.6	4
61	High-speed stereoscopy of aurora. Annales Geophysicae, 2016, 34, 41-44.	1.6	11
62	Magnetohydrodynamic simulation of interplanetary propagation of multiple coronal mass ejections with internal magnetic flux rope (SUSANOO-CME). Space Weather, 2016, 14, 56-75.	3.7	133
63	Fast modulations of pulsating proton aurora related to subpacket structures of Pc1 geomagnetic pulsations at subauroral latitudes. Geophysical Research Letters, 2016, 43, 7859-7866.	4.0	13
64	Generation of field-aligned current (FAC) and convection through the formation of pressure regimes: Correction for the concept of Dungey's convection. Journal of Geophysical Research: Space Physics, 2016, 121, 8695-8711.	2.4	27
65	Substructures with luminosity modulation and horizontal oscillation in pulsating patch: Principal component analysis application to pulsating aurora. Journal of Geophysical Research: Space Physics, 2016, 121, 2360-2373.	2.4	9
66	Extreme geomagnetically induced currents. Progress in Earth and Planetary Science, 2016, 3, .	3.0	27
67	Quasi-periodic rapid motion of pulsating auroras. Polar Science, 2016, 10, 183-191.	1.2	7
68	Unusual rainbow and white rainbow: A new auroral candidate in oriental historical sources. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	12
69	Relativistic electron precipitation at International Space Station: Space weather monitoring by Calorimetric Electron Telescope. Geophysical Research Letters, 2016, 43, 4119-4125.	4.0	16
70	Pileup accident hypothesis of magnetic storm on 17 March 2015. Geophysical Research Letters, 2015, 42, 5155-5161.	4.0	100
71	Interplanetary particle transport simulation for warning system for aviation exposure to solar energetic particles. Earth, Planets and Space, 2015, 67, .	2.5	16
72	Global MHD simulation of magnetospheric response of preliminary impulse to large and sudden enhancement of the solar wind dynamic pressure. Earth, Planets and Space, 2015, 67, .	2.5	13

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73	What caused the rapid recovery of the Carrington storm?. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	17
74	Estimating the solar wind conditions during an extreme geomagnetic storm: a case study of the event that occurred on March 13 th , 1989. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	18
75	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.	2.4	73
76	A direct link between chorus emissions and pulsating aurora on timescales from milliseconds to minutes: A case study at subauroral latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9617-9631.	2.4	14
77	Radiation dose of aircrews during a solar proton event without ground-level enhancement. <i>Annales Geophysicae</i> , 2015, 33, 75-78.	1.6	13
78	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.	2.4	133
79	STATISTICAL STUDY OF STRONG AND EXTREME GEOMAGNETIC DISTURBANCES AND SOLAR CYCLE CHARACTERISTICS. <i>Astrophysical Journal</i> , 2015, 806, 272.	4.5	46
80	Compound auroral micromorphology: ground-based high-speed imaging. <i>Earth, Planets and Space</i> , 2015, 67, 23.	2.5	13
81	Variations of nitric oxide in the mesosphere and lower thermosphere over Antarctica associated with a magnetic storm in April 2012. <i>Geophysical Research Letters</i> , 2014, 41, 2568-2574.	4.0	12
82	Multiscale temporal variations of pulsating auroras: On ^{off} pulsation and a few Hz modulation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3514-3527.	2.4	30
83	Extreme ion heating in the dayside ionosphere in response to the arrival of a coronal mass ejection on 12 March 2012. <i>Annales Geophysicae</i> , 2014, 32, 831-839.	1.6	3
84	Ground-based ELF/MLF chorus observations at subauroral latitudes ^{VLF} CHAIN Campaign. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7363-7379.	2.4	16
85	Air shower simulation for WASAVIES: warning system for aviation exposure to solar energetic particles. <i>Radiation Protection Dosimetry</i> , 2014, 161, 274-278.	0.8	21
86	The Nebula Winter: The united view of the snowball Earth, mass extinctions, and explosive evolution in the late Neoproterozoic and Cambrian periods. <i>Gondwana Research</i> , 2014, 25, 1153-1163.	6.0	31
87	Ground-based observations of nitric oxide in the mesosphere and lower thermosphere over Antarctica in 2012 ²⁰¹³ . <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7745-7761.	2.4	8
88	Radiation dose forecast of WASAVIES during ground-level enhancement. <i>Space Weather</i> , 2014, 12, 380-386.	3.7	21
89	Inner heliosphere MHD modeling system applicable to space weather forecasting for the other planets. <i>Space Weather</i> , 2014, 12, 187-204.	3.7	68
90	Snowball Earth events driven by starbursts of the Milky Way Galaxy. <i>New Astronomy</i> , 2013, 21, 50-62.	1.8	14

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91	Saturation of Stellar Winds from Young Suns. Publication of the Astronomical Society of Japan, 2013, 65, .	2.5	67
92	Probability of occurrence of extreme magnetic storms. Space Weather, 2013, 11, 214-218.	3.7	39
93	High-speed solar wind with southward interplanetary magnetic field causes relativistic electron flux enhancement of the outer radiation belt via enhanced condition of whistler waves. Geophysical Research Letters, 2013, 40, 4520-4525.	4.0	117
94	Stereoscopic determination of all-sky altitude map of aurora using two ground-based Nikon DSLR cameras. Annales Geophysicae, 2013, 31, 1543-1548.	1.6	22
95	Observed correlation between pulsating aurora and chorus waves at Syowa Station in Antarctica: A case study. Journal of Geophysical Research, 2012, 117, .	3.3	13
96	Fine scale structures of pulsating auroras in the early recovery phase of substorm using ground-based EMCCD camera. Journal of Geophysical Research, 2012, 117, .	3.3	13
97	Anomalous ^{10}Be spikes during the Maunder Minimum: Possible evidence for extreme space weather in the heliosphere. Space Weather, 2012, 10, .	3.7	12
98	Pulsating aurora beyond the ultra-low-frequency range. Journal of Geophysical Research, 2012, 117, .	3.3	30
99	EVOLUTION OF CORONAL MASS EJECTION MORPHOLOGY WITH INCREASING HELIOCENTRIC DISTANCE. II. IN SITU OBSERVATIONS. Astrophysical Journal, 2011, 732, 117.	4.5	34
100	Spatial-temporal characteristics of flickering aurora as seen by high-speed EMCCD imaging observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	11
101	Turbulent microstructures and formation of folds in auroral breakup arc. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	14
102	Ground-based multispectral high-speed imaging of flickering aurora. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	13
103	Predicting Radiation Dose on Aircraft From Solar Energetic Particles. Space Weather, 2011, 9, .	3.7	9
104	Explosive volcanic eruptions triggered by cosmic rays: Volcano as a bubble chamber. Gondwana Research, 2011, 19, 1054-1061.	6.0	6
105	Solar cycle variations of outer radiation belt and its relationship to solar wind structure dependences. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 77-87.	1.6	39
106	HELICAL LENGTHS OF MAGNETIC CLOUDS FROM THE MAGNETIC FLUX CONSERVATION. Astrophysical Journal, 2010, 710, 456-461.	4.5	9
107	Magnetic field investigation of Mercury's magnetosphere and the inner heliosphere by MMO/MGF. Planetary and Space Science, 2010, 58, 279-286.	1.7	29
108	Modeling geomagnetically induced currents in Hokkaido, Japan. Advances in Space Research, 2010, 46, 1087-1093.	2.6	35

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109	SuperDARN Hokkaido radar observation of westward flow enhancement in subauroral latitudes. <i>Annales Geophysicae</i> , 2009, 27, 1695-1699.	1.6	12
110	Three-dimensional MHD modeling of the solar wind structures associated with 13 December 2006 coronal mass ejection. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	62
111	Hilbert-Huang Transform of geomagnetic pulsations at auroral expansion onset. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
112	Measurements of geomagnetically induced current in a power grid in Hokkaido, Japan. <i>Space Weather</i> , 2009, 7, .	3.7	65
113	Magnetosphere inflation during the recovery phase of geomagnetic storms as an excellent magnetic confinement of killer electrons. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	24
114	Geomagnetically induced currents during intense storms driven by coronal mass ejections and corotating interacting regions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	35
115	Flux enhancement of the outer radiation belt electrons after the arrival of stream interaction regions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	107
116	Average profiles of the solar wind and outer radiation belt during the extreme flux enhancement of relativistic electrons at geosynchronous orbit. <i>Annales Geophysicae</i> , 2008, 26, 1335-1339.	1.6	24
117	Evolution of the outer radiation belt during the November 1993 storms driven by corotating interaction regions. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	59
118	Dynamic variations of a convection flow reversal in the subauroral postmidnight sector as seen by the SuperDARN Hokkaido HF radar. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	17
119	Electromagnetic energy deposition rate in the polar upper thermosphere derived from the EISCAT Svalbard radar and CUTLASS Finland radar observations. <i>Annales Geophysicae</i> , 2007, 25, 2393-2403.	1.6	7
120	Major geomagnetic storms ($Dst \approx 100$ nT) generated by corotating interaction regions. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	159
121	Flux enhancement of radiation belt electrons during geomagnetic storms driven by coronal mass ejections and corotating interaction regions. <i>Space Weather</i> , 2006, 4, n/a-n/a.	3.7	110
122	S-transform view of geomagnetically induced currents during geomagnetic superstorms. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	30
123	Evidence for the resonator of inertial Alfvén waves in the cusp topside ionosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	13
124	Downstream structures of interplanetary fast shocks associated with coronal mass ejections. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	47
125	Magnetosheath variations during the storm main phase on 20 November 2003: Evidence for solar wind density control of energy transfer to the magnetosphere. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	20
126	Ring current ions and radiation belt electrons during geomagnetic storms driven by coronal mass ejections and corotating interaction regions. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	153

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127	Transient response of the Earth's magnetosphere to a localized density pulse in the solar wind: Simulation of traveling convection vortices. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
128	Statistical identification of solar wind origins of magnetic impulse events. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	27
129	Transient production of F-region irregularities associated with TCV passage. <i>Annales Geophysicae</i> , 2003, 21, 1531-1541.	1.6	6
130	Magnetic impulse events and related PC 1 waves in the cusp and libl region observed by a ground magnetometer network. <i>COSPAR Colloquia Series</i> , 2002, 12, 237-241.	0.2	0
131	Traveling convection vortices induced by solar wind tangential discontinuities. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 22-1-SMP 22-12.	3.3	19
132	East Asian observations of low-latitude aurora during the Carrington magnetic storm. <i>Publication of the Astronomical Society of Japan</i> , 0, , .	2.5	44