

Rajkumar Hajra

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,328
citations

279778

23
h-index

395678

33
g-index

71
all docs

71
docs citations

71
times ranked

946
citing authors

#	ARTICLE	IF	CITATIONS
1	Cometary plasma science. <i>Experimental Astronomy</i> , 2022, 54, 1129-1167.	3.7	3
2	Intense, Long-Duration Geomagnetically Induced Currents (GICs) Caused by Intense Substorm Clusters. <i>Space Weather</i> , 2022, 20, e2021SW002937.	3.7	10
3	Intense Geomagnetically Induced Currents (GICs): Association with Solar and Geomagnetic Activities. <i>Solar Physics</i> , 2022, 297, 1.	2.5	7
4	Near-Earth Sub-Alfvénic Solar Winds: Interplanetary Origins and Geomagnetic Impacts. <i>Astrophysical Journal</i> , 2022, 926, 135.	4.5	8
5	Corotating Interaction Regions during Solar Cycle 24: A Study on Characteristics and Geoeffectiveness. <i>Solar Physics</i> , 2022, 297, 1.	2.5	14
6	Identification of the planetary magnetosphere boundaries with the wavelet multi-resolution analysis. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2022, 230, 105842.	1.6	2
7	Geomagnetically Induced Currents. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 523-527.	0.1	3
8	The Interplanetary and Magnetospheric causes of Geomagnetically Induced Currents (GICs) > 10 ¹⁰ A in the MÅntÅsÅlÅ Finland Pipeline: 1999 through 2019. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 23.	3.3	29
9	Seasonal dependence of the Earth's radiation belt – new insights. <i>Annales Geophysicae</i> , 2021, 39, 181-187.	1.6	3
10	Weakest Solar Cycle of the Space Age: A Study on Solar Wind – Magnetosphere Energy Coupling and Geomagnetic Activity. <i>Solar Physics</i> , 2021, 296, 1.	2.5	25
11	September 2017 Space-Weather Events: A Study on Magnetic Reconnection and Geoeffectiveness. <i>Solar Physics</i> , 2021, 296, 1.	2.5	7
12	Long-Term Variations of the Geomagnetic Activity: A Comparison Between the Strong and Weak Solar Activity Cycles and Implications for the Space Climate. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028695.	2.4	15
13	Variation of the Interplanetary Shocks in the Inner Heliosphere. <i>Astrophysical Journal</i> , 2021, 917, 91.	4.5	8
14	The Interplanetary and Magnetospheric causes of Geomagnetically Induced Currents (GICs) > 10 ¹⁰ A in the MÅntÅsÅlÅ Finland Pipeline: 1999 through 2019 – Erratum. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 32.	3.3	3
15	Seasonal features of geomagnetic activity: a study on the solar activity dependence. <i>Annales Geophysicae</i> , 2021, 39, 929-943.	1.6	9
16	Lower-Band – Monochromatic – Chorus Riser Subelement/Wave Packet Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028090.	2.4	28
17	Plasma distribution around Comet 67P in the last month of the Rosetta mission. <i>Icarus</i> , 2020, 350, 113924.	2.5	0
18	The physics of space weather/solar-terrestrial physics (STP): what we know now and what the current and future challenges are. <i>Nonlinear Processes in Geophysics</i> , 2020, 27, 75-119.	1.3	49

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19	Ionospheric total electron content of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2020, 635, A51.	5.1	3
20	Geomagnetically Induced Currents. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-4.	0.1	6
21	The Complex Space Weather Events of 2017 September. <i>Astrophysical Journal</i> , 2020, 899, 3.	4.5	28
22	Solar flares observed by Rosetta at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A49.	5.1	4
23	Comment on "First Observation of Mesosphere Response to the Solar Wind High-Speed Streams" by W. Yi et al.. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8165-8168.	2.4	5
24	Properties of the singing comet waves in the 67P/Churyumov-Gerasimenko plasma environment as observed by the Rosetta mission. <i>Astronomy and Astrophysics</i> , 2019, 630, A39.	5.1	14
25	Low Frequency ($f < 200$ Hz) Polar Plasmaspheric Hiss: Coherent and Intense. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10063-10084.	2.4	11
26	Magnetospheric "Killer" Relativistic Electron Dropouts (REDs) and Repopulation: A Cyclical Process. , 2018, , 373-400.		18
27	Comment on "Modeling Extreme Carrington-Type Space Weather Events Using Three-Dimensional Global MHD Simulations" by C. M. Ngwira, A. Pulkkinen, M. M. Kuznetsova, and A. Gloecker. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1388-1392.	2.4	15
28	Dynamic unmagnetized plasma in the diamagnetic cavity around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4140-4147.	4.4	19
29	Plasma density structures at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1296-1307.	4.4	11
30	Plasmaspheric Hiss: Coherent and Intense. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,009.	2.4	20
31	Plasma source and loss at comet 67P during the Rosetta mission. <i>Astronomy and Astrophysics</i> , 2018, 618, A77.	5.1	38
32	Cometary plasma response to interplanetary corotating interaction regions during 2016 June-September: a quantitative study by the Rosetta Plasma Consortium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 4544-4556.	4.4	26
33	Interplanetary Shocks Inducing Magnetospheric Supersubstorms (SML ~ 2500 nT): Unusual Auroral Morphologies and Energy Flow. <i>Astrophysical Journal</i> , 2018, 858, 123.	4.5	38
34	A correlation study regarding the AE index and ACE solar wind data for Alfvénic intervals using wavelet decomposition and reconstruction. <i>Nonlinear Processes in Geophysics</i> , 2018, 25, 67-76.	1.3	21
35	Cross-correlation and cross-wavelet analyses of the solar wind IMF B_z and auroral electrojet index AE coupling during HILDCAAs. <i>Annales Geophysicae</i> , 2018, 36, 205-211.	1.6	23
36	Diamagnetic region(s): structure of the unmagnetized plasma around Comet 67P/CG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S372-S379.	4.4	51

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37	High-speed solar wind stream effects on the topside ionosphere over Arecibo: A case study during solar minimum. <i>Geophysical Research Letters</i> , 2017, 44, 7607-7617.	4.0	13
38	Characterization of high-intensity, long-duration continuous auroral activity (HILDCAA) events using recurrence quantification analysis. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 407-417.	1.3	15
39	Impact of a cometary outburst on its ionosphere. <i>Astronomy and Astrophysics</i> , 2017, 607, A34.	5.1	21
40	An empirical model of ionospheric total electron content (TEC) near the crest of the equatorial ionization anomaly (EIA). <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A29.	3.3	33
41	Estimation of energy budget of ionosphere-thermosphere system during two CIR-HSS events: observations and modeling. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A20.	3.3	12
42	Heliospheric plasma sheet (HPS) impingement onto the magnetosphere as a cause of relativistic electron dropouts (REDs) via coherent EMIC wave scattering with possible consequences for climate change mechanisms. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,130.	2.4	59
43	Supersubstorms (SML \sim 2500 nT): Magnetic storm and solar cycle dependences. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7805-7816.	2.4	47
44	A study on the main periodicities in interplanetary magnetic field Bz component and geomagnetic AE index during HILDCAA events using wavelet analysis. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 149, 81-86.	1.6	29
45	Comparison of geophysical patterns in the southern hemisphere mid-latitude region. <i>Advances in Space Research</i> , 2016, 58, 2090-2103.	2.6	3
46	Electromagnetic cyclotron waves in the dayside subsolar outer magnetosphere generated by enhanced solar wind pressure: EMIC wave coherency. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7536-7551.	2.4	35
47	Relativistic electron acceleration during HILDCAA events: are precursor CIR magnetic storms important?. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	26
48	RELATIVISTIC (<i>E</i> > 0.6, > 2.0, AND > 4.0 MeV) ELECTRON ACCELERATION AT GEOSYNCHRONOUS ORBIT DURING HIGH-INTENSITY, LONG-DURATION, CONTINUOUS AE ACTIVITY (HILDCAA) EVENTS. <i>Astrophysical Journal</i> , 2015, 799, 39.	4.5	56
49	Medium-Range Thermosphere-Ionosphere Storm Forecasts. <i>Space Weather</i> , 2015, 13, 125-129.	3.7	18
50	Extremely intense (SML \sim 2500 nT) substorms: isolated events that are externally triggered?. <i>Annales Geophysicae</i> , 2015, 33, 519-524.	1.6	64
51	Interplanetary Alfvén Waves, HILDCAAs, Acceleration of Magnetospheric Relativistic Electrons and Auroral Zone Heating. , 2015, , .		0
52	Relativistic electron acceleration during high-intensity, long-duration, continuous AE activity (HILDCAA) events: Solar cycle phase dependences. <i>Geophysical Research Letters</i> , 2014, 41, 1876-1881.	4.0	54
53	Superposed epoch analyses of HILDCAAs and their interplanetary drivers: Solar cycle and seasonal dependences. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 121, 24-31.	1.6	27
54	Solar wind-magnetosphere energy coupling efficiency and partitioning: HILDCAAs and preceding CIR storms during solar cycle 23. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2675-2690.	2.4	48

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55	Solar cycle dependence of High-Intensity Long-Duration Continuous AE Activity (HILDCAA) events, relativistic electron predictors?. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5626-5638.	2.4	91
56	Evolution of equatorial irregularities under varying electrodynamical conditions: A multitechnique case study from Indian longitude zone. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
57	Ionospheric scintillation near the anomaly crest in relation to the variability of ambient ionization. <i>Radio Science</i> , 2012, 47, .	1.6	8
58	Equatorial ionospheric responses in relation to the occurrence of main phase of intense geomagnetic storms in the local dusk sector. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 760-770.	1.6	4
59	Variability of total electron content near the crest of the equatorial anomaly during moderate geomagnetic storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 900-911.	1.6	9
60	Ionospheric effects near the magnetic equator and the anomaly crest of the Indian longitude zone during a large number of intense geomagnetic storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 1299-1308.	1.6	6
61	Electrojet control of ambient ionization near the crest of the equatorial anomaly in the Indian zone. <i>Annales Geophysicae</i> , 2009, 27, 93-105.	1.6	25
62	Electrodynamical control of the ambient ionization near the equatorial anomaly crest in the Indian zone during counter electrojet days. <i>Radio Science</i> , 2009, 44, .	1.6	9
63	Solar control of ambient ionization of the ionosphere near the crest of the equatorial anomaly in the Indian zone. <i>Annales Geophysicae</i> , 2008, 26, 47-57.	1.6	30