

# Rajkumar Hajra

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

877

citations

18

h-index

27

g-index

71

ext. papers

1,149

ext. citations

3

avg, IF

5

L-index

#	Paper	IF	Citations
62	Solar cycle dependence of High-Intensity Long-Duration Continuous AE Activity (HILDCAA) events, relativistic electron predictors?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 5626-5638	2.6	68
61	Extremely intense (SML $\geq 500$ nT) substorms: isolated events that are externally triggered?. <i>Annales Geophysicae</i> , <b>2015</b> , 33, 519-524	2	47
60	Diamagnetic region(s): structure of the unmagnetized plasma around Comet 67P/CG. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, S372-S379	4.3	44
59	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> , <b>2014</b> , 119, 2675-2690	2.6	41
58	Relativistic electron acceleration during high-intensity, long-duration, continuous AE activity (HILDCAA) events: Solar cycle phase dependences. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 1876-1881	4.9	40
57	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> , <b>2016</b> , 121, 10,130-10,156	2.6	39
56	Supersubstorms (SML). <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 7805-7816	2.6	36
55	RELATIVISTIC ( $E > 0.6$ , $> 2.0$ , AND $> 4.0$ MeV) ELECTRON ACCELERATION AT GEOSYNCHRONOUS ORBIT DURING HIGH-INTENSITY, LONG-DURATION, CONTINUOUS AE ACTIVITY (HILDCAA) EVENTS. <i>Astrophysical Journal</i> , <b>2015</b> , 799, 39	4.7	35
54	Plasma source and loss at comet 67P during the Rosetta mission. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 618, A77	5.1	30
53	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> , <b>2015</b> , 120, 7536-7551	2.6	28
52	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> , <b>2020</b> , 27, 75-119	2.9	24
51	Superposed epoch analyses of HILDCAAs and their interplanetary drivers: Solar cycle and seasonal dependences. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2014</b> , 121, 24-31	2	24
50	Electrojet control of ambient ionization near the crest of the equatorial anomaly in the Indian zone. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 93-105	2	23
49	Solar control of ambient ionization of the ionosphere near the crest of the equatorial anomaly in the Indian zone. <i>Annales Geophysicae</i> , <b>2008</b> , 26, 47-57	2	22
48	Relativistic electron acceleration during HILDCAA events: are precursor CIR magnetic storms important?. <i>Earth, Planets and Space</i> , <b>2015</b> , 67,	2.9	21
47	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> , <b>2016</b> , 6, A29	2.5	19
46	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> , <b>2016</b> , 149, 81-86	2	19

45	Interplanetary Shocks Inducing Magnetospheric Supersubstorms (SML Astrophysical Journal, <b>2018</b> , 858, 123	4.7	19
44	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> , <b>2018</b> , 480, 4544-4556	4.3	18
43	Medium-Range Thermosphere-Ionosphere Storm Forecasts. <i>Space Weather</i> , <b>2015</b> , 13, 125-129	3.7	17
42	Impact of a cometary outburst on its ionosphere. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 607, A34	5.1	17
41	Dynamic unmagnetized plasma in the diamagnetic cavity around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 475, 4140-4147	4.3	16
40	The Complex Space Weather Events of 2017 September. <i>Astrophysical Journal</i> , <b>2020</b> , 899, 3	4.7	16
39	Weakest Solar Cycle of the Space Age: A Study on Solar Wind-Magnetosphere Energy Coupling and Geomagnetic Activity. <i>Solar Physics</i> , <b>2021</b> , 296, 1	2.6	13
38	Plasmaspheric Hiss: Coherent and Intense. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 10,009-10,029	2.6	13
37	Cross-correlation and cross-wavelet analyses of the solar wind IMF &lt;i>B</i> and auroral electrojet index AE coupling during HILDCAAs. <i>Annales Geophysicae</i> , <b>2018</b> , 36, 205-211	2	13
36	Characterization of high-intensity, long-duration continuous auroral activity (HILDCAA) events using recurrence quantification analysis. <i>Nonlinear Processes in Geophysics</i> , <b>2017</b> , 24, 407-417	2.9	12
35	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> , <b>2018</b> , 123, 1388-1392	2.6	12
34	Lower-Band Monochromatic Chorus Riser Subelement/Wave Packet Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028090	2.6	12
33	Magnetospheric Killer Relativistic Electron Dropouts (REDs) and Repopulation: A Cyclical Process <b>2018</b> , 373-400		10
32	High-speed solar wind stream effects on the topside ionosphere over Arecibo: A case study during solar minimum. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7607-7617	4.9	10
31	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> , <b>2018</b> , 25, 67-76	2.9	10
30	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> , <b>2010</b> , 72, 900-911	2	9
29	Properties of the singing comet waves in the 67P/Churyumov-Gerasimenko plasma environment as observed by the Rosetta mission. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 630, A39	5.1	9
28	Plasma density structures at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 477, 1296-1307	4.3	9

27	Evolution of equatorial irregularities under varying electrodynamical conditions: A multitechnique case study from Indian longitude zone. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		8
26	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> , <b>2016</b> , 6, A20	2.5	8
25	The Interplanetary and Magnetospheric causes of Geomagnetically Induced Currents (GICs) > 10 A in the MØtsjØ Finland Pipeline: 1999 through 2019. <i>Journal of Space Weather and Space Climate</i> , <b>2021</b> , 11, 23	2.5	8
24	Electrodynamical control of the ambient ionization near the equatorial anomaly crest in the Indian zone during counter electrojet days. <i>Radio Science</i> , <b>2009</b> , 44, n/a-n/a	1.4	6
23	Low Frequency (f) Journal of Geophysical Research: Space Physics, <b>2019</b> , 124, 10063-10084	2.6	6
22	Ionospheric scintillation near the anomaly crest in relation to the variability of ambient ionization. <i>Radio Science</i> , <b>2012</b> , 47, n/a-n/a	1.4	5
21	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> , <b>2010</b> , 72, 1299-1308	2	5
20	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> , <b>2021</b> , 126, e2020JA028695	2.6	4
19	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> , <b>2011</b> , 73, 760-770	2	3
18	Seasonal features of geomagnetic activity: a study on the solar activity dependence. <i>Annales Geophysicae</i> , <b>2021</b> , 39, 929-943	2	3
17	September 2017 Space-Weather Events: A Study on Magnetic Reconnection and Geoeffectiveness. <i>Solar Physics</i> , <b>2021</b> , 296, 1	2.6	3
16	Variation of the Interplanetary Shocks in the Inner Heliosphere. <i>Astrophysical Journal</i> , <b>2021</b> , 917, 91	4.7	3
15	Comparison of geophysical patterns in the southern hemisphere mid-latitude region. <i>Advances in Space Research</i> , <b>2016</b> , 58, 2090-2103	2.4	2
14	Solar flares observed by Rosetta at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 630, A49	5.1	2
13	Intense, long-duration geomagnetically induced currents (GICs) caused by intense substorm clusters. <i>Space Weather</i> , e2021SW002937	3.7	2
12	Space Weather Forecasting: What We Know Now and What Are the Current and Future Challenges?		2
11	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> , <b>2019</b> , 124, 8165-8168	2.6	2
10	Seasonal dependence of the Earth's radiation belt New insights. <i>Annales Geophysicae</i> , <b>2021</b> , 39, 181-187		2

9	The Interplanetary and Magnetospheric causes of Geomagnetically Induced Currents (GICs) > 10 A in the MätsäFinland Pipeline: 1999 through 2019 [Erratum]. <i>Journal of Space Weather and Space Climate</i> , <b>2021</b> , 11, 32	2.5	2
8	The Complex Space Weather Events of September 2017		1
7	Corotating Interaction Regions during Solar Cycle 24: A Study on Characteristics and Geoeffectiveness. <i>Solar Physics</i> , <b>2022</b> , 297, 1	2.6	1
6	Ionospheric total electron content of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 635, A51	5.1	0
5	Intense Geomagnetically Induced Currents (GICs): Association with Solar and Geomagnetic Activities. <i>Solar Physics</i> , <b>2022</b> , 297, 1	2.6	0
4	Cometary plasma science. <i>Experimental Astronomy</i> , 1	1.3	0
3	Near-Earth Sub-Alfvénic Solar Winds: Interplanetary Origins and Geomagnetic Impacts. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 135	4.7	0
2	Plasma distribution around Comet 67P in the last month of the Rosetta mission. <i>Icarus</i> , <b>2020</b> , 350, 1139248		5
1	Identification of the planetary magnetosphere boundaries with the wavelet multi-resolution analysis. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2022</b> , 230, 105842		2