

Colin J Joyce

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

978
citations

361413
20
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501196
28
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51
all docs

51
docs citations

51
times ranked

775
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	27.8	103
2	Does the worsening galactic cosmic radiation environment observed by CReTER preclude future manned deep space exploration?. <i>Space Weather</i> , 2014, 12, 622-632.	3.7	55
3	Update on the Worsening Particle Radiation Environment Observed by CReTER and Implications for Future Human Deep Space Exploration. <i>Space Weather</i> , 2018, 16, 289-303.	3.7	44
4	EXCITATION OF LOW-FREQUENCY WAVES IN THE SOLAR WIND BY NEWBORN INTERSTELLAR PICKUP IONS H ⁺ AND He ⁺ AS SEEN BY VOYAGER AT 4.5 AU. <i>Astrophysical Journal</i> , 2010, 724, 1256-1261.	4.5	33
5	ULYSSES OBSERVATIONS OF MAGNETIC WAVES DUE TO NEWBORN INTERSTELLAR PICKUP IONS. II. APPLICATION OF TURBULENCE CONCEPTS TO LIMITING WAVE ENERGY AND OBSERVABILITY. <i>Astrophysical Journal</i> , 2014, 787, 133.	4.5	33
6	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	7.7	31
7	VOYAGER OBSERVATIONS OF MAGNETIC WAVES DUE TO NEWBORN INTERSTELLAR PICKUP IONS: 2-6 au. <i>Astrophysical Journal</i> , 2016, 822, 94.	4.5	29
8	Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. <i>Astrophysical Journal</i> , 2018, 856, 139.	4.5	27
9	³ He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42.	7.7	27
10	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 35.	7.7	27
11	OBSERVATION OF BERNSTEIN WAVES EXCITED BY NEWBORN INTERSTELLAR PICKUP IONS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2012, 745, 112.	4.5	25
12	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 61.	7.7	25
13	Small, Low-energy, Dispersive Solar Energetic Particle Events Observed by Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 65.	7.7	23
14	A SURVEY OF MAGNETIC WAVES EXCITED BY NEWBORN INTERSTELLAR He ⁺ OBSERVED BY THE ACE SPACECRAFT AT 1 au. <i>Astrophysical Journal</i> , 2016, 830, 47.	4.5	22
15	Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. II. Instability and Turbulence Analyses. <i>Astrophysical Journal</i> , 2018, 863, 76.	4.5	22
16	Solar Wind Turbulence from 1 to 45 au. IV. Turbulent Transport and Heating of the Solar Wind Using Voyager Observations. <i>Astrophysical Journal</i> , 2020, 900, 94.	4.5	22
17	Validation of PREDICCS using LRO/CReTER observations during three major solar events in 2012. <i>Space Weather</i> , 2013, 11, 350-360.	3.7	21
18	Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. I. Wave Properties. <i>Astrophysical Journal</i> , 2018, 863, 75.	4.5	21

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19	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 33.	7.7	21
20	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , 2021, 650, A26.	5.1	20
21	Solar Wind Turbulence from 1 to 45 au. III. Anisotropy of Magnetic Fluctuations in the Inertial Range Using Voyager and ACE Observations. <i>Astrophysical Journal</i> , 2020, 900, 93.	4.5	20
22	Solar Wind Turbulence from 1 to 45 au. I. Evidence for Dissipation of Magnetic Fluctuations Using Voyager and ACE Observations. <i>Astrophysical Journal</i> , 2020, 900, 91.	4.5	18
23	Energetic Particle Observations from the Parker Solar Probe Using Combined Energy Spectra from the ISÅŠ™IS Instrument Suite. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 41.	7.7	17
24	A living catalog of stream interaction regions in the Parker Solar Probe era. <i>Astronomy and Astrophysics</i> , 2021, 650, A25.	5.1	17
25	Energetic Electron Observations by Parker Solar Probe/ISÅŠ™IS during the First Widespread SEP Event of Solar Cycle 25 on 2020 November 29. <i>Astrophysical Journal</i> , 2021, 919, 119.	4.5	17
26	ACE observations of magnetic waves arising from newborn interstellar pickup helium ions. <i>Geophysical Research Letters</i> , 2015, 42, 9617-9623.	4.0	16
27	Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the <i>Voyager</i> Spacecraft from 1 to 45 au. III. Observation Times. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 34.	7.7	16
28	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREOâ€A. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091376.	4.0	16
29	Observation of Magnetic Waves Excited by Newborn Interstellar Pickup He+ Observed by the Voyager 2 Spacecraft at 30 au. <i>Astrophysical Journal</i> , 2017, 849, 61.	4.5	15
30	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A24.	5.1	15
31	Time evolution of stream interaction region energetic particle spectra in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L5.	5.1	14
32	Solar Wind Turbulence from 1 to 45 au. II. Analysis of Inertial-range Fluctuations Using Voyager and ACE Observations. <i>Astrophysical Journal</i> , 2020, 900, 92.	4.5	14
33	Listing of 502 Times When the Ulysses Magnetic Fields Instrument Observed Waves Due to Newborn Interstellar Pickup Protons. <i>Astrophysical Journal</i> , 2017, 840, 13.	4.5	13
34	Observations of Low-Frequency Magnetic Waves due to Newborn Interstellar Pickup Ions Using ACE, Ulysses, and Voyager Data. <i>Journal of Physics: Conference Series</i> , 2017, 900, 012018.	0.4	13
35	Parker Solar Probe observations of He/H abundance variations in SEP events inside 0.5 au. <i>Astronomy and Astrophysics</i> , 2021, 650, A23.	5.1	13
36	Energetic particle behavior in near-Sun magnetic field switchbacks from PSP. <i>Astronomy and Astrophysics</i> , 2021, 650, L4.	5.1	12

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37	Anomalous Cosmic-Ray Oxygen Observations into 0.1 au. <i>Astrophysical Journal</i> , 2022, 925, 9.	4.5	12
38	First Observations of Anomalous Cosmic Rays in to 36 Solar Radii. <i>Astrophysical Journal</i> , 2021, 912, 139.	4.5	10
39	Energetic Particles Associated with a Coronal Mass Ejection Shock Interacting with a Convected Magnetic Structure. <i>Astrophysical Journal</i> , 2021, 921, 102.	4.5	10
40	Small Electron Events Observed by Parker Solar Probe/ISÅ™IS during Encounter 2. <i>Astrophysical Journal</i> , 2020, 902, 20.	4.5	9
41	Radiation modeling in the Earth and Mars atmospheres using LRO/CRaTER with the EMMREM Module. <i>Space Weather</i> , 2014, 12, 112-119.	3.7	8
42	Analysis of the potential radiation hazard of the 23 July 2012 SEP event observed by STEREO A using the EMMREM model and LRO/CRaTER. <i>Space Weather</i> , 2015, 13, 560-567.	3.7	8
43	Solar modulation of the deep space galactic cosmic ray lineal energy spectrum measured by CRaTER, 2009â€“2014. <i>Space Weather</i> , 2016, 14, 247-258.	3.7	7
44	Galactic Cosmic Radiation in the Interplanetary Space Through a Modern Secular Minimum. <i>Space Weather</i> , 2020, 18, e2019SW002428.	3.7	6
45	Atmospheric radiation modeling of galactic cosmic rays using LRO/CRaTER and the EMMREM model with comparisons to balloon and airline based measurements. <i>Space Weather</i> , 2016, 14, 659-667.	3.7	5
46	Modeling the effectiveness of shielding in the earth-moon-mars radiation environment using PREDICCS: five solar events in 2012. <i>Journal of Space Weather and Space Climate</i> , 2017, 7, A16.	3.3	5
47	High-latitude Observations of Inertial-range Turbulence by the Ulysses Spacecraft During the Solar Minimum of 1993â€“96. <i>Astrophysical Journal</i> , 2022, 927, 43.	4.5	4
48	Low-frequency Waves due to Newborn Interstellar Pickup He ⁺ Observed by the Ulysses Spacecraft. <i>Astrophysical Journal</i> , 2021, 923, 185.	4.5	4
49	PSP/ISÅ™IS Observation of a Solar Energetic Particle Event Associated with a Streamer Blowout Coronal Mass Ejection during Encounter 6. <i>Astrophysical Journal</i> , 2022, 925, 212.	4.5	3
50	Solar Wind Turbulence from 1 to 45 au. V. Data Intervals from the Voyager Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 250, 14.	7.7	2