Chris J Scott

List of Publications by Year
in descending order

107	5,347	156536	97045
papers	citations	32 h-index	71 g-index

113	113	113	3537
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying the Uncertainty in CME Kinematics Derived From Geometric Modeling of Heliospheric Imager Data. Space Weather, 2022, 20, .	1.3	6
2	Predictive Capabilities of Corotating Interaction Regions Using STEREO and Wind Inâ€Situ Observations. Space Weather, 2022, 20, .	1.3	4
3	Using GNSS radio occultation data to derive critical frequencies of the ionospheric sporadic E layer in real time. GPS Solutions, 2021, 25, 1.	2.2	9
4	Interhemispheric transport of metallic ions within ionospheric sporadic <i>E</i> layers by the lower thermospheric meridional circulation. Atmospheric Chemistry and Physics, 2021, 21, 4219-4230.	1.9	24
5	Inferring thermospheric composition from ionogram profiles: a calibration with the TIMED spacecraft. Annales Geophysicae, 2021, 39, 309-319.	0.6	0
6	Extreme Space-Weather Events and the Solar Cycle. Solar Physics, 2021, 296, 1.	1.0	23
7	A Signature of 27 day Solar Rotation in the Concentration of Metallic Ions within the Terrestrial Ionosphere. Astrophysical Journal, 2021, 916, 106.	1.6	12
8	Modeling the Observed Distortion of Multiple (Ghost) CME Fronts in STEREO Heliospheric Imagers. Astrophysical Journal Letters, 2021, 917, L16.	3.0	9
9	Semi-annual, annual and Universal Time variations in the magnetosphere and in geomagnetic activity: 4. Polar Cap motions and origins of the Universal Time effect. Journal of Space Weather and Space Climate, 2021, 11, 15.	1.1	15
10	Derivation of global ionospheric Sporadic E critical frequency (f _o Es) data from the amplitude variations in GPS/GNSS radio occultations. Royal Society Open Science, 2020, 7, 200320.	1.1	24
11	Semi-annual, annual and Universal Time variations in the magnetosphere and in geomagnetic activity: 1. Geomagnetic data. Journal of Space Weather and Space Climate, 2020, 10, 23.	1.1	42
12	The Visual Complexity of Coronal Mass Ejections Follows the Solar Cycle. Space Weather, 2020, 18, e2020SW002556.	1.3	4
13	Ensemble CME Modeling Constrained by Heliospheric Imager Observations. AGU Advances, 2020, 1, e2020AV000214.	2.3	20
14	A Computationally Efficient, Time-Dependent Model of the Solar Wind for Use as a Surrogate to Three-Dimensional Numerical Magnetohydrodynamic Simulations. Solar Physics, 2020, 295, 1.	1.0	44
15	Semi-annual, annual and Universal Time variations in the magnetosphere and in geomagnetic activity: 2. Response to solar wind power input and relationships with solar wind dynamic pressure and magnetospheric flux transport. Journal of Space Weather and Space Climate, 2020, 10, 30.	1.1	24
16	Semi-annual, annual and Universal Time variations in the magnetosphere and in geomagnetic activity: 3. Modelling. Journal of Space Weather and Space Climate, 2020, 10, 61.	1.1	16
17	Using the â€œGhost Frontâ€•to Predict the Arrival Time and Speed of CMEs at Venus and Earth. Astrophysical Journal, 2020, 899, 143.	1.6	9
18	The Development of a Space Climatology: 1. Solar Wind Magnetosphere Coupling as a Function of Timescale and the Effect of Data Gaps. Space Weather, 2019, 17, 133-156.	1.3	35

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19	Thunderstorm occurrence at ten sites across Great Britain over 1884â€“1993. Geoscience Data Journal, 2019, 6, 222-233.	1.8	4
20	The Development of a Space Climatology: 2. The Distribution of Power Input Into the Magnetosphere on a 3â€Hourly Timescale. Space Weather, 2019, 17, 157-179.	1.3	12
21	Extracting Innerâ€Heliosphere Solar Wind Speed Information From Heliospheric Imager Observations. Space Weather, 2019, 17, 925-938.	1.3	11
22	Do the Chinese Astronomical Records Dated AD 776 January 12/13 Describe an Auroral Display or a Lunar Halo? A Critical Re-examination. Solar Physics, 2019, 294, 1.	1.0	16
23	The Celestial Sign in the Anglo-Saxon Chronicle in the 770s: Insights on Contemporary Solar Activity. Solar Physics, 2019, 294, 1.	1.0	8
24	Using Ghost Fronts Within STEREO Heliospheric Imager Data to Infer the Evolution in Longitudinal Structure of a Coronal Mass Ejection. Space Weather, 2019, 17, 539-552.	1.3	11
25	The intensification of metallic layered phenomena above thunderstorms through the modulation of atmospheric tides. Scientific Reports, 2019, 9, 17907.	1.6	10
26	The Development of a Space Climatology: 3. Models of the Evolution of Distributions of Space Weather Variables With Timescale. Space Weather, 2019, 17, 180-209.	1.3	17
27	The ionospheric response over the UK to major bombing raids during World WarÂII. Annales Geophysicae, 2018, 36, 1243-1254.	0.6	5
28	Sunspot Observations on 10 and 11 February 1917: A Case Study in Collating Known and Previously Undocumented Records. Space Weather, 2018, 16, 1740-1752.	1.3	8
29	Space climate and space weather over the past 400â€‰years: 2. Proxy indicators of geomagnetic storm and substorm occurrence. Journal of Space Weather and Space Climate, 2018, 8, A12.	1.1	27
30	Testing the current paradigm for space weather prediction with heliospheric imagers. Space Weather, 2017, 15, 782-803.	1.3	22
31	Tracking CMEs using data from the Solar Stormwatch project; observing deflections and other properties. Space Weather, 2017, 15, 1125-1140.	1.3	8
32	Space climate and space weather over the past 400 years: 1. The power input to the magnetosphere. Journal of Space Weather and Space Climate, 2017, 7, A25.	1.1	29
33	The National Eclipse Weather Experiment: use and evaluation of a citizen science tool for schools outreach. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150223.	1.6	10
34	Tests of Sunspot Number Sequences: 2. Using Geomagnetic and Auroral Data. Solar Physics, 2016, 291, 2811-2828.	1.0	21
35	Going with the floe. Astronomy and Geophysics, 2016, 57, 2.37-2.42.	0.1	2
36	Using the ionospheric response to the solar eclipse on 20 March 2015 to detect spatial structure in the solar corona. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150216.	1.6	5

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37	Atmospheric changes from solar eclipses. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150217.	1.6	39
38	Tests of Sunspot Number Sequences: 1. Using Ionosonde Data. Solar Physics, 2016, 291, 2785-2809.	1.0	20
39	On the origins and timescales of geoeffective IMF. Space Weather, 2016, 14, 406-432.	1.3	65
40	Differences between the CME fronts tracked by an expert, an automated algorithm, and the Solar Stormwatch project. Space Weather, 2015, 13, 709-725.	1.3	14
41	Lightning as a spaceâ€weather hazard: UK thunderstorm activity modulated by the passage of the heliospheric current sheet. Geophysical Research Letters, 2015, 42, 9624-9632.	1.5	23
42	The Maunder minimum (1645â€“1715) was indeed a grand minimum: A reassessment of multiple datasets. Astronomy and Astrophysics, 2015, 581, A95.	2.1	158
43	Validation of a priori CME arrival predictions made using realâ€time heliospheric imager observations. Space Weather, 2015, 13, 35-48.	1.3	27
44	Global variation in the long-term seasonal changes observed in ionospheric F region data. Annales Geophysicae, 2015, 33, 449-455.	0.6	6
45	NEAR-EARTH COSMIC RAY DECREASES ASSOCIATED WITH REMOTE CORONAL MASS EJECTIONS. Astrophysical Journal, 2015, 801, 5.	1.6	11
46	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr â€“ Part 4: Near-Earth solar wind speed, IMF, and open solar flux. Annales Geophysicae, 2014, 32, 383-399.	0.6	60
47	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr â€“ Part 3: Improved representation of solar cycle 11. Annales Geophysicae, 2014, 32, 367-381.	0.6	22
48	Long-term changes in thermospheric composition inferred from a spectral analysis of ionospheric F-region data. Annales Geophysicae, 2014, 32, 113-119.	0.6	7
49	Evidence for solar wind modulation of lightning. Environmental Research Letters, 2014, 9, 055004.	2.2	49
50	Modulation of UK lightning by heliospheric magnetic field polarity. Environmental Research Letters, 2014, 9, 115009.	2.2	28
51	Galactic Cosmic Ray Modulation near the Heliospheric Current Sheet. Solar Physics, 2014, 289, 2653-2668.	1.0	29
52	The Solar Stormwatch CME catalogue: Results from the first space weather citizen science project. Space Weather, 2014, 12, 657-674.	1.3	25
53	Observations of Rapid Velocity Variations in the Slow Solar Wind. Solar Physics, 2013, 285, 111-126.	1.0	2
54	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr â€“ Part 2: A new reconstruction of the interplanetary magnetic field. Annales Geophysicae, 2013, 31, 1979-1992.	0.6	32

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55	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr â€“ Part 1: A new geomagnetic data composite. Annales Geophysicae, 2013, 31, 1957-1977.	0.6	38
56	USING COORDINATED OBSERVATIONS IN POLARIZED WHITE LIGHT AND FARADAY ROTATION TO PROBE THE SPATIAL POSITION AND MAGNETIC FIELD OF AN INTERPLANETARY SHEATH. Astrophysical Journal, 2013, 777, 32.	1.6	10
57	Solar cycle 24: what is the Sun up to?. Astronomy and Geophysics, 2012, 53, 3.09-3.15.	0.1	23
58	Predicting the arrival of highâ€speed solar wind streams at Earth using the STEREO Heliospheric Imagers. Space Weather, 2012, 10, .	1.3	14
59	THE DEFLECTION OF THE TWO INTERACTING CORONAL MASS EJECTIONS OF 2010 MAY 23-24 AS REVEALED BY COMBINED IN SITU MEASUREMENTS AND HELIOSPHERIC IMAGING. Astrophysical Journal, 2012, 759, 68.	1.6	137
60	A SELF-SIMILAR EXPANSION MODEL FOR USE IN SOLAR WIND TRANSIENT PROPAGATION STUDIES. Astrophysical Journal, 2012, 750, 23.	1.6	120
61	Heliospheric Observations of STEREO-Directed Coronal Mass Ejections in 2008â€‰â€“â€‰2010: Lessons for Future Observations of Earth-Directed CMEs. Solar Physics, 2012, 279, 497-515.	1.0	20
62	Observational Tracking of the 2D Structure of Coronal Mass Ejections Between the Sun and 1 AU. Solar Physics, 2012, 279, 517-535.	1.0	23
63	The distribution of interplanetary dust between 0.96 and 1.04 au as inferred from impacts on the STEREO spacecraft observed by the heliospheric imagersâ˜… Monthly Notices of the Royal Astronomical Society, 2012, 420, 1355-1366.	1.6	17
64	A comparison of space weather analysis techniques used to predict the arrival of the Earthâ€directed CME and its shockwave launched on 8 April 2010. Space Weather, 2011, 9, .	1.3	30
65	Solar cycle 24: Implications for energetic particles and long-term space climate change. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	44
66	The persistence of solar activity indicators and the descent of the Sun into Maunder Minimum conditions. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	45
67	Predicting space climate change. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	65
68	Straylight-Rejection Performance of the STEREO HI Instruments. Solar Physics, 2011, 271, 197-218.	1.0	9
69	Assessing the Accuracy of CME Speed and Trajectory Estimates from STEREO Observations Through aÂComparison of Independent Methods. Solar Physics, 2010, 263, 209-222.	1.0	27
70	Transient Structures and Stream Interaction Regions inÂthe Solar Wind: Results from EISCAT Interplanetary Scintillation, STEREO HI and Venus Express ASPERA-4 Measurements. Solar Physics, 2010, 265, 207-231.	1.0	8
71	Coronal mass ejections in the heliosphere. Advances in Space Research, 2010, 45, 1-9.	1.2	7
72	DETERMINING THE AZIMUTHAL PROPERTIES OF CORONAL MASS EJECTIONS FROM MULTI-SPACECRAFT REMOTE-SENSING OBSERVATIONS WITHSTEREOSECCHI. Astrophysical Journal, 2010, 715, 493-499.	1.6	126

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73	Intermittent release of transients in the slow solar wind: 1. Remote sensing observations. Journal of Geophysical Research, 2010, 115, .	3.3	80
74	Intermittent release of transients in the slow solar wind: 2. In situ evidence. Journal of Geophysical Research, 2010, 115, .	3.3	52
75	The Heliospheric Imagers Onboard the STEREO Mission. Solar Physics, 2009, 254, 387-445.	1.0	312
76	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. Solar Physics, 2009, 256, 307-326.	1.0	93
77	Two Years of the STEREO Heliospheric Imagers. Solar Physics, 2009, 256, 219-237.	1.0	47
78	Pre-CME Onset Fuses â€“ Do the STEREO Heliospheric Imagers Hold the Clues to the CME Onset Process?. Solar Physics, 2009, 259, 277-296.	1.0	4
79	Magnetic coupling in the solar system. Astronomy and Geophysics, 2009, 50, 2.31-2.35.	0.1	0
80	Stereoscopic imaging of an Earthâ€impacting solar coronal mass ejection: A major milestone for the STEREO mission. Geophysical Research Letters, 2009, 36, .	1.5	110
81	A synoptic view of solar transient evolution in the inner heliosphere using the Heliospheric Imagers on STEREO. Geophysical Research Letters, 2009, 36, .	1.5	164
82	A solar storm observed from the Sun to Venus using the STEREO, Venus Express, and MESSENGER spacecraft. Journal of Geophysical Research, 2009, 114, .	3.3	65
83	First Imaging of Coronal Mass Ejections in the Heliosphere Viewed from Outside the Sunâ€‰â€“â€‰Earth Line. Solar Physics, 2008, 247, 171-193.	1.0	92
84	Sun Earth Connection Coronal and Heliospheric Investigation (SECCHI). Space Science Reviews, 2008, 136, 67.	3.7	1,422
85	An enhancement of the ionospheric sporadicâ€E layer in response to negative polarity cloudâ€toâ€ground lightning. Geophysical Research Letters, 2008, 35, .	1.5	27
86	First imaging of corotating interaction regions using the STEREO spacecraft. Geophysical Research Letters, 2008, 35, .	1.5	165
87	Discovery of the Atomic Iron Tail of Comet M c Naught Using the Heliospheric Imager on STEREO. Astrophysical Journal, 2007, 661, L93-L96.	1.6	48
88	First Direct Observation of the Interaction between a Comet and a Coronal Mass Ejection Leading to a Complete Plasma Tail Disconnection. Astrophysical Journal, 2007, 668, L79-L82.	1.6	55
89	From motivation to behaviour: A model of reward sensitivity, overeating, and food preferences in the risk profile for obesity. Appetite, 2007, 48, 12-19.	1.8	314
90	In-orbit verification, calibration, and performance of the Heliospheric Imager on the STEREO mission. Proceedings of SPIE, 2007, , .	0.8	4

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91	The location of lightning affecting the ionospheric sporadic-E layer as evidence for multiple enhancement mechanisms. Geophysical Research Letters, 2006, 33, .	1.5	20
92	The STEREO heliospheric imager: how to detect CMEs in the heliosphere. Advances in Space Research, 2005, 36, 1512-1523.	1.2	38
93	Lightning-induced intensification of the ionospheric sporadic E layer. Nature, 2005, 435, 799-801.	13.7	55
94	STEREO/HI â€“ from near-Earth objects to 3D comets. Advances in Space Research, 2005, 36, 1524-1529.	1.2	7
95	First tristatic studies of meso-scale ion-neutral dynamics and energetics in the high-latitude upper atmosphere using collocated FPIs and EISCAT radar. Geophysical Research Letters, 2004, 31, .	1.5	31
96	High-latitude pump-induced optical emissions for frequencies close to the third electron gyro-harmonic. Geophysical Research Letters, 2002, 29, 27-1-27-4.	1.5	59
97	The 70th anniversary of ionospheric sounding. Engineering Science and Education Journal, 2001, 10, 139-144.	0.1	4
98	Dynasonde observations of electron concentration gradients above TromsÃ¸. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1385-1391.	0.6	3
99	The correct application of Poynting's theorem to the time-dependent magnetosphere: reply to Heikkila. Annales Geophysicae, 1999, 17, 178.	0.6	1
100	Occurrence and characteristics of high-latitude mesospheric echoes at MF: observations by Halley and Tromso dynasondes. Journal of Atmospheric and Solar-Terrestrial Physics, 1998, 60, 595-605.	0.6	7
101	Modelling signatures of pulsed magnetopause reconnection in cusp ion dispersion signatures seen at middle altitudes. Geophysical Research Letters, 1998, 25, 591-594.	1.5	40
102	An analysis of the accuracy of magnetopause reconnection rate variations deduced from cusp ion dispersion characteristics. Annales Geophysicae, 1996, 14, 149-161.	0.6	11
103	Predicted signatures of pulsed reconnection in ESR data. Annales Geophysicae, 1996, 14, 1246.	0.6	4
104	An optimised method for calculating the O⁺-O collision parameter from aeronomical measurements. Annales Geophysicae, 1995, 13, 541-550.	0.6	20
105	Occurrence probability, width and number of steps of cusp precipitation for fully pulsed reconnection at the dayside magnetopause. Journal of Geophysical Research, 1995, 100, 7627.	3.3	19
106	Location and characteristics of the reconnection X line deduced from low-altitude satellite and ground-based observations: 2. Defense Meteorological Satellite Program and European Incoherent Scatter data. Journal of Geophysical Research, 1995, 100, 21803-21813.	3.3	20
107	The characteristics of the magnetopause reconnection X-line deduced from low-altitude satellite observations of cusp ions. Geophysical Research Letters, 1994, 21, 2757-2760.	1.5	28