# Chris J Scott

List of Publications by Year
in descending order



| 107 | 5,347 | 136950 | 85541 |
|---|---|---|---|
| papers | citations | 32 h-index | 71 g-index |

| 113 | 113 | 113 | 3306 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sun Earth Connection Coronal and Heliospheric Investigation (SECCHI). Space Science Reviews, 2008, 136, 67. | 8.1 | 1,422 |
| 2 | From motivation to behaviour: A model of reward sensitivity, overeating, and food preferences in the risk profile for obesity. Appetite, 2007, 48, 12-19. | 3.7 | 314 |
| 3 | The Heliospheric Imagers Onboard the STEREO Mission. Solar Physics, 2009, 254, 387-445. | 2.5 | 312 |
| 4 | First imaging of corotating interaction regions using the STEREO spacecraft. Geophysical Research Letters, 2008, 35, . | 4.0 | 165 |
| 5 | A synoptic view of solar transient evolution in the inner heliosphere using the Heliospheric Imagers on STEREO. Geophysical Research Letters, 2009, 36, . | 4.0 | 164 |
| 6 | The Maunder minimum (1645â€“1715) was indeed a grand minimum: A reassessment of multiple datasets. Astronomy and Astrophysics, 2015, 581, A95. | 5.1 | 158 |
| 7 | 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. | 4.5 | 137 |
| 8 | DETERMINING THE AZIMUTHAL PROPERTIES OF CORONAL MASS EJECTIONS FROM MULTI-SPACECRAFT REMOTE-SENSING OBSERVATIONS WITHSTEREOSECCHI. Astrophysical Journal, 2010, 715, 493-499. | 4.5 | 126 |
| 9 | A SELF-SIMILAR EXPANSION MODEL FOR USE IN SOLAR WIND TRANSIENT PROPAGATION STUDIES. Astrophysical Journal, 2012, 750, 23. | 4.5 | 120 |
| 10 | Stereoscopic imaging of an Earthâ€impacting solar coronal mass ejection: A major milestone for the STEREO mission. Geophysical Research Letters, 2009, 36, . | 4.0 | 110 |
| 11 | A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. Solar Physics, 2009, 256, 307-326. | 2.5 | 93 |
| 12 | First Imaging of Coronal Mass Ejections in the Heliosphere Viewed from Outside the Sunâ€‰â€“â€‰Earth Line. Solar Physics, 2008, 247, 171-193. | 2.5 | 92 |
| 13 | Intermittent release of transients in the slow solar wind: 1. Remote sensing observations. Journal of Geophysical Research, 2010, 115, . | 3.3 | 80 |
| 14 | 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 |
| 15 | Predicting space climate change. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 65 |
| 16 | On the origins and timescales of geoeffective IMF. Space Weather, 2016, 14, 406-432. | 3.7 | 65 |
| 17 | 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. | 1.6 | 60 |
| 18 | High-latitude pump-induced optical emissions for frequencies close to the third electron gyro-harmonic. Geophysical Research Letters, 2002, 29, 27-1-27-4. | 4.0 | 59 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Lightning-induced intensification of the ionospheric sporadic E layer. Nature, 2005, 435, 799-801. | 27.8 | 55 |
| 20 | 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. | 4.5 | 55 |
| 21 | Intermittent release of transients in the slow solar wind: 2. In situ evidence. Journal of Geophysical Research, 2010, 115, . | 3.3 | 52 |
| 22 | Evidence for solar wind modulation of lightning. Environmental Research Letters, 2014, 9, 055004. | 5.2 | 49 |
| 23 | Discovery of the Atomic Iron Tail of Comet M c Naught Using the Heliospheric Imager on STEREO. Astrophysical Journal, 2007, 661, L93-L96. | 4.5 | 48 |
| 24 | Two Years of the STEREO Heliospheric Imagers. Solar Physics, 2009, 256, 219-237. | 2.5 | 47 |
| 25 | 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. | 4.0 | 45 |
| 26 | Solar cycle 24: Implications for energetic particles and long-term space climate change. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 44 |
| 27 | 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. | 2.5 | 44 |
| 28 | 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. | 3.3 | 42 |
| 29 | Modelling signatures of pulsed magnetopause reconnection in cusp ion dispersion signatures seen at middle altitudes. Geophysical Research Letters, 1998, 25, 591-594. | 4.0 | 40 |
| 30 | Atmospheric changes from solar eclipses. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150217. | 3.4 | 39 |
| 31 | The STEREO heliospheric imager: how to detect CMEs in the heliosphere. Advances in Space Research, 2005, 36, 1512-1523. | 2.6 | 38 |
| 32 | 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. | 1.6 | 38 |
| 33 | 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. | 3.7 | 35 |
| 34 | 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. | 1.6 | 32 |
| 35 | 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, . | 4.0 | 31 |
| 36 | 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, . | 3.7 | 30 |

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|---|---|---|---|
| 37 | Galactic Cosmic Ray Modulation near the Heliospheric Current Sheet. Solar Physics, 2014, 289, 2653-2668. | 2.5 | 29 |
| 38 | 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. | 3.3 | 29 |
| 39 | The characteristics of the magnetopause reconnection X-line deduced from low-altitude satellite observations of cusp ions. Geophysical Research Letters, 1994, 21, 2757-2760. | 4.0 | 28 |
| 40 | Modulation of UK lightning by heliospheric magnetic field polarity. Environmental Research Letters, 2014, 9, 115009. | 5.2 | 28 |
| 41 | An enhancement of the ionospheric sporadicâ€E layer in response to negative polarity cloudâ€toâ€ground lightning. Geophysical Research Letters, 2008, 35, . | 4.0 | 27 |
| 42 | Assessing the Accuracy of CME Speed and Trajectory Estimates from STEREO Observations Through aÂComparison of Independent Methods. Solar Physics, 2010, 263, 209-222. | 2.5 | 27 |
| 43 | Validation of a priori CME arrival predictions made using realâ€time heliospheric imager observations. Space Weather, 2015, 13, 35-48. | 3.7 | 27 |
| 44 | 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. | 3.3 | 27 |
| 45 | The Solar Stormwatch CME catalogue: Results from the first space weather citizen science project. Space Weather, 2014, 12, 657-674. | 3.7 | 25 |
| 46 | Derivation of global ionospheric Sporadic E critical frequency ( f <sub> o </sub> Es) data from the amplitude variations in GPS/GNSS radio occultations. Royal Society Open Science, 2020, 7, 200320. | 2.4 | 24 |
| 47 | 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. | 4.9 | 24 |
| 48 | 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. | 3.3 | 24 |
| 49 | Solar cycle 24: what is the Sun up to?. Astronomy and Geophysics, 2012, 53, 3.09-3.15. | 0.2 | 23 |
| 50 | Observational Tracking of the 2D Structure of Coronal Mass Ejections Between the Sun and 1 AU. Solar Physics, 2012, 279, 517-535. | 2.5 | 23 |
| 51 | 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. | 4.0 | 23 |
| 52 | Extreme Space-Weather Events and the Solar Cycle. Solar Physics, 2021, 296, 1. | 2.5 | 23 |
| 53 | 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. | 1.6 | 22 |
| 54 | Testing the current paradigm for space weather prediction with heliospheric imagers. Space Weather, 2017, 15, 782-803. | 3.7 | 22 |

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| 55 | Tests of Sunspot Number Sequences: 2. Using Geomagnetic and Auroral Data. Solar Physics, 2016, 291, 2811-2828. | 2.5 | 21 |
| 56 | An optimised method for calculating the O<sup>+</sup>-O collision parameter from aeronomical measurements. Annales Geophysicae, 1995, 13, 541-550. | 1.6 | 20 |
| 57 | 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 |
| 58 | The location of lightning affecting the ionospheric sporadic-E layer as evidence for multiple enhancement mechanisms. Geophysical Research Letters, 2006, 33, . | 4.0 | 20 |
| 59 | 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. | 2.5 | 20 |
| 60 | Tests of Sunspot Number Sequences: 1. Using Ionosonde Data. Solar Physics, 2016, 291, 2785-2809. | 2.5 | 20 |
| 61 | Ensemble CME Modeling Constrained by Heliospheric Imager Observations. AGU Advances, 2020, 1, e2020AV000214. | 5.4 | 20 |
| 62 | 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 |
| 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. | 4.4 | 17 |
| 64 | 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. | 3.7 | 17 |
| 65 | 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. | 2.5 | 16 |
| 66 | 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. | 3.3 | 16 |
| 67 | 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. | 3.3 | 15 |
| 68 | Predicting the arrival of highâ€speed solar wind streams at Earth using the STEREO Heliospheric Imagers. Space Weather, 2012, 10, . | 3.7 | 14 |
| 69 | Differences between the CME fronts tracked by an expert, an automated algorithm, and the Solar Stormwatch project. Space Weather, 2015, 13, 709-725. | 3.7 | 14 |
| 70 | 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. | 3.7 | 12 |
| 71 | A Signature of 27 day Solar Rotation in the Concentration of Metallic Ions within the Terrestrial Ionosphere. Astrophysical Journal, 2021, 916, 106. | 4.5 | 12 |
| 72 | An analysis of the accuracy of magnetopause reconnection rate variations deduced from cusp ion dispersion characteristics. Annales Geophysicae, 1996, 14, 149-161. | 1.6 | 11 |

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|---|---|---|---|
| 73 | NEAR-EARTH COSMIC RAY DECREASES ASSOCIATED WITH REMOTE CORONAL MASS EJECTIONS. Astrophysical Journal, 2015, 801, 5. | 4.5 | 11 |
| 74 | Extracting Innerâ€Heliosphere Solar Wind Speed Information From Heliospheric Imager Observations. Space Weather, 2019, 17, 925-938. | 3.7 | 11 |
| 75 | 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. | 3.7 | 11 |
| 76 | 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. | 4.5 | 10 |
| 77 | 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. | 3.4 | 10 |
| 78 | The intensification of metallic layered phenomena above thunderstorms through the modulation of atmospheric tides. Scientific Reports, 2019, 9, 17907. | 3.3 | 10 |
| 79 | Straylight-Rejection Performance of the STEREO HI Instruments. Solar Physics, 2011, 271, 197-218. | 2.5 | 9 |
| 80 | Using GNSS radio occultation data to derive critical frequencies of the ionospheric sporadic E layer in real time. GPS Solutions, 2021, 25, 1. | 4.3 | 9 |
| 81 | Modeling the Observed Distortion of Multiple (Ghost) CME Fronts in STEREO Heliospheric Imagers. Astrophysical Journal Letters, 2021, 917, L16. | 8.3 | 9 |
| 82 | Using the â€œGhost Frontâ€•to Predict the Arrival Time and Speed of CMEs at Venus and Earth. Astrophysical Journal, 2020, 899, 143. | 4.5 | 9 |
| 83 | 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. | 2.5 | 8 |
| 84 | Tracking CMEs using data from the Solar Stormwatch project; observing deflections and other properties. Space Weather, 2017, 15, 1125-1140. | 3.7 | 8 |
| 85 | Sunspot Observations on 10 and 11 February 1917: A Case Study in Collating Known and Previously Undocumented Records. Space Weather, 2018, 16, 1740-1752. | 3.7 | 8 |
| 86 | The Celestial Sign in the Anglo-Saxon Chronicle in the 770s: Insights on Contemporary Solar Activity. Solar Physics, 2019, 294, 1. | 2.5 | 8 |
| 87 | 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. | 1.6 | 7 |
| 88 | STEREO/HI â€“ from near-Earth objects to 3D comets. Advances in Space Research, 2005, 36, 1524-1529. | 2.6 | 7 |
| 89 | Coronal mass ejections in the heliosphere. Advances in Space Research, 2010, 45, 1-9. | 2.6 | 7 |
| 90 | Long-term changes in thermospheric composition inferred from a spectral analysis of ionospheric F-region data. Annales Geophysicae, 2014, 32, 113-119. | 1.6 | 7 |

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| 91 | Global variation in the long-term seasonal changes observed in ionospheric F region data. Annales Geophysicae, 2015, 33, 449-455. | 1.6 | 6 |
| 92 | Quantifying the Uncertainty in CME Kinematics Derived From Geometric Modeling of Heliospheric Imager Data. Space Weather, 2022, 20, . | 3.7 | 6 |
| 93 | 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. | 3.4 | 5 |
| 94 | The ionospheric response over the UK to major bombing raids during World WarÂII. Annales Geophysicae, 2018, 36, 1243-1254. | 1.6 | 5 |
| 95 | The 70th anniversary of ionospheric sounding. Engineering Science and Education Journal, 2001, 10, 139-144. | 0.1 | 4 |
| 96 | Pre-CME Onset Fuses â€“ Do the STEREO Heliospheric Imagers Hold the Clues to the CME Onset Process?. Solar Physics, 2009, 259, 277-296. | 2.5 | 4 |
| 97 | Thunderstorm occurrence at ten sites across Great Britain over 1884â€“1993. Geoscience Data Journal, 2019, 6, 222-233. | 4.4 | 4 |
| 98 | The Visual Complexity of Coronal Mass Ejections Follows the Solar Cycle. Space Weather, 2020, 18, e2020SW002556. | 3.7 | 4 |
| 99 | Predicted signatures of pulsed reconnection in ESR data. Annales Geophysicae, 1996, 14, 1246. | 1.6 | 4 |
| 100 | In-orbit verification, calibration, and performance of the Heliospheric Imager on the STEREO mission. Proceedings of SPIE, 2007, , . | 0.8 | 4 |
| 101 | Predictive Capabilities of Corotating Interaction Regions Using STEREO and Wind Inâ€Situ Observations. Space Weather, 2022, 20, . | 3.7 | 4 |
| 102 | Dynasonde observations of electron concentration gradients above TromsÃ¸. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1385-1391. | 1.6 | 3 |
| 103 | Observations of Rapid Velocity Variations in the Slow Solar Wind. Solar Physics, 2013, 285, 111-126. | 2.5 | 2 |
| 104 | Going with the floe. Astronomy and Geophysics, 2016, 57, 2.37-2.42. | 0.2 | 2 |
| 105 | The correct application of Poynting's theorem to the time-dependent magnetosphere: reply to Heikkila. Annales Geophysicae, 1999, 17, 178. | 1.6 | 1 |
| 106 | Magnetic coupling in the solar system. Astronomy and Geophysics, 2009, 50, 2.31-2.35. | 0.2 | 0 |
| 107 | Inferring thermospheric composition from ionogram profiles: a calibration with the TIMED spacecraft. Annales Geophysicae, 2021, 39, 309-319. | 1.6 | 0 |