Jackie A Davies

List of Publications by Year
in descending order

71 papers	3,489 citations	159585 30 h-index	133252 59 g-index
71 all docs	71 docs citations	71 times ranked	1587 citing authors

#	Article	IF	Citations
1	A journey of exploration to the polar regions of a star: probing the solar poles and the heliosphere from high helio-latitude. Experimental Astronomy, 2022, 54, 157-183.	3.7	8
2	Quantifying the Uncertainty in CME Kinematics Derived From Geometric Modeling of Heliospheric Imager Data. Space Weather, 2022, 20, .	3.7	6
3	Multipoint Interplanetary Coronal Mass Ejections Observed with Solar Orbiter, BepiColombo, Parker Solar Probe, Wind, and STEREO-A. Astrophysical Journal Letters, 2022, 924, L6.	8.3	25
4	Comparing the Heliospheric Cataloging, Analysis, and Techniques Service (HELCATS) Manual and Automatic Catalogues of Coronal Mass Ejections Using Solar Terrestrial Relations Observatory/Heliospheric Imager (STEREO/HI) Data. Solar Physics, 2022, 297, 1.	2.5	3
5	A Post-Conjunction Re-Evaluation of the Calibration and Long-term Evolution of the STEREO-A Heliospheric Imagers. Solar Physics, 2022, 297, 1.	2.5	2
6	Evaluation of CME Arrival Prediction Using Ensemble Modeling Based on Heliospheric Imaging Observations. Space Weather, 2021, 19, e2020SW002553.	3.7	21
7	Analysis of signal to noise ratio in coronagraph observations of coronal mass ejections. Journal of Space Weather and Space Climate, 2021, 11, 11.	3.3	0
8	Why are ELEvoHI CME Arrival Predictions Different if Based on STEREOâ€A or STEREOâ€B Heliospheric Imager Observations?. Space Weather, 2021, 19, e2020SW002674.	3.7	11
9	Predicting CMEs Using ELEvoHI With STEREOâ€HI Beacon Data. Space Weather, 2021, 19, e2021SW002873.	3.7	3
10	CMEs in the Heliosphere: III. A Statistical Analysis of the Kinematic Properties Derived from Stereoscopic Geometrical Modelling Techniques Applied to CMEs Detected in the Heliosphere from 2008 to 2014 by STEREO/HI-1. Solar Physics, 2020, 295, 1.	2.5	13
11	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 37.	7.7	52
12	From heliophysics to space weather forecasts. Astronomy and Geophysics, 2019, 60, 5.26-5.30.	0.2	0
13	CMEs in the Heliosphere: II. A Statistical Analysis of the Kinematic Properties Derived from Single-Spacecraft Geometrical Modelling Techniques Applied to CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1. Solar Physics, 2019, 294, 1.	2.5	25
14	SCOPE: a coronagraph for operational space weather prediction: phase A/B1 design and breadboarding. , 2019, , .		1
15	Prospective Out-of-ecliptic White-light Imaging of Coronal Mass Ejections Traveling through the Corona and Heliosphere. Astrophysical Journal, 2018, 852, 111.	4.5	5
16	CMEs in the Heliosphere: I. A Statistical Analysis of the Observational Properties of CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1. Solar Physics, 2018, 293, 1.	2.5	36
17	Prospective White-light Imaging and In Situ Measurements of Quiescent Large-scale Solar-wind Streams from the Parker Solar Probe and Solar Orbiter. Astrophysical Journal, 2018, 868, 137.	4.5	7
18	Coronal Magnetic Structure of Earthbound CMEs and In Situ Comparison. Space Weather, 2018, 16, 442-460.	3.7	51

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19	Testing the current paradigm for space weather prediction with heliospheric imagers. Space Weather, 2017, 15, 782-803.	3.7	22
20	Prospective Out-of-ecliptic White-light Imaging of Interplanetary Corotating Interaction Regions at Solar Maximum. Astrophysical Journal, 2017, 844, 76.	4.5	7
21	The application of heliospheric imaging to space weather operations: Lessons learned from published studies. Space Weather, 2017, 15, 985-1003.	3.7	23
22	Modeling observations of solar coronal mass ejections with heliospheric imagers verified with the Heliophysics System Observatory. Space Weather, 2017, 15, 955-970.	3.7	65
23	On the Long-Term Evolution of the Sensitivity of the STEREO HI-1 Cameras. Solar Physics, 2017, 292, 1.	2.5	8
24	Long-Term Tracking of Corotating Density Structures Using Heliospheric Imaging. Solar Physics, 2016, 291, 1853-1875.	2.5	25
25	AUTOMATED DETECTION OF CORONAL MASS EJECTIONS IN STEREO HELIOSPHERIC IMAGER DATA. Astrophysical Journal, 2016, 833, 80.	4.5	19
26	The utility of polarized heliospheric imaging for space weather monitoring. Space Weather, 2016, 14, 32-49.	3.7	16
27	ElEvoHI: A NOVEL CME PREDICTION TOOL FOR HELIOSPHERIC IMAGING COMBINING AN ELLIPTICAL FRONT WITH DRAG-BASED MODEL FITTING. Astrophysical Journal, 2016, 824, 131.	4.5	63
28	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
29	Determination of the Photometric Calibration and Large-Scale Flatfield of the STEREO Heliospheric Imagers: II. HI-2. Solar Physics, 2015, 290, 2143-2170.	2.5	14
30	Validation of a priori CME arrival predictions made using realâ€time heliospheric imager observations. Space Weather, 2015, 13, 35-48.	3.7	27
31	3D Reconstruction of Interplanetary Scintillation (IPS) Remote-Sensing Data: Global Solar Wind Boundaries for Driving 3D-MHD Models. Solar Physics, 2015, 290, 2519-2538.	2.5	24
32	A COMPARISON OF RECONSTRUCTION METHODS FOR THE ESTIMATION OF CORONAL MASS EJECTIONS KINEMATICS BASED ON SECCHI/HI OBSERVATIONS. Astrophysical Journal, 2014, 784, 135.	4.5	30
33	CONNECTING SPEEDS, DIRECTIONS AND ARRIVAL TIMES OF 22 CORONAL MASS EJECTIONS FROM THE SUN TO 1 AU. Astrophysical Journal, 2014, 787, 119.	4.5	145
34	COMBINED MULTIPOINT REMOTE AND IN SITU OBSERVATIONS OF THE ASYMMETRIC EVOLUTION OF A FAST SOLAR CORONAL MASS EJECTION. Astrophysical Journal Letters, 2014, 790, L6.	8.3	45
35	The Solar Stormwatch CME catalogue: Results from the first space weather citizen science project. Space Weather, 2014, 12, 657-674.	3.7	25
36	Observations of Rapid Velocity Variations in the Slow Solar Wind. Solar Physics, 2013, 285, 111-126.	2.5	2

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37	Speeds and Arrival Times of Solar Transients Approximated by Self-similar Expanding Circular Fronts. Solar Physics, 2013, 285, 411-423.	2.5	73
38	ON SUN-TO-EARTH PROPAGATION OF CORONAL MASS EJECTIONS. Astrophysical Journal, 2013, 769, 45.	4.5	120
39	ESTABLISHING A STEREOSCOPIC TECHNIQUE FOR DETERMINING THE KINEMATIC PROPERTIES OF SOLAR WIND TRANSIENTS BASED ON A GENERALIZED SELF-SIMILARLY EXPANDING CIRCULAR GEOMETRY. Astrophysical Journal, 2013, 777, 167.	4.5	88
40	AN ANALYSIS OF THE ORIGIN AND PROPAGATION OF THE MULTIPLE CORONAL MASS EJECTIONS OF 2010 AUGUST 1. Astrophysical Journal, 2012, 750, 45.	4.5	82
41	MULTI-POINT SHOCK AND FLUX ROPE ANALYSIS OF MULTIPLE INTERPLANETARY CORONAL MASS EJECTIONS AROUND 2010 AUGUST 1 IN THE INNER HELIOSPHERE. Astrophysical Journal, 2012, 758, 10.	4.5	109
42	Three-Dimensional Properties of Coronal Mass Ejections from STEREO/SECCHI Observations. Solar Physics, 2012, 281, 167.	2.5	30
43	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
44	A SELF-SIMILAR EXPANSION MODEL FOR USE IN SOLAR WIND TRANSIENT PROPAGATION STUDIES. Astrophysical Journal, 2012, 750, 23.	4.5	120
45	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
46	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
47	ARRIVAL TIME CALCULATION FOR INTERPLANETARY CORONAL MASS EJECTIONS WITH CIRCULAR FRONTS AND APPLICATION TOSTEREOOBSERVATIONS OF THE 2009 FEBRUARY 13 ERUPTION. Astrophysical Journal, 2011, 741, 34.	4.5	51
48	GEOMETRIC TRIANGULATION OF IMAGING OBSERVATIONS TO TRACK CORONAL MASS EJECTIONS CONTINUOUSLY OUT TO 1 AU. Astrophysical Journal Letters, 2010, 710, L82-L87.	8.3	170
49	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
50	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
51	DETERMINING THE AZIMUTHAL PROPERTIES OF CORONAL MASS EJECTIONS FROM MULTI-SPACECRAFT REMOTE-SENSING OBSERVATIONS WITHSTEREOSECCHI. Astrophysical Journal, 2010, 715, 493-499.	4.5	126
52	Intermittent release of transients in the slow solar wind: 1. Remote sensing observations. Journal of Geophysical Research, 2010, 115, .	3.3	80
53	Intermittent release of transients in the slow solar wind: 2. In situ evidence. Journal of Geophysical Research, 2010, 115, .	3.3	52
54	A comparison of EISCAT and SuperDARN Fâ€region measurements with consideration of the refractive index in the scattering volume. Journal of Geophysical Research, 2010, 115, .	3.3	22

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55	OBSERVATIONAL EVIDENCE OF A CORONAL MASS EJECTION DISTORTION DIRECTLY ATTRIBUTABLE TO A STRUCTURED SOLAR WIND. Astrophysical Journal Letters, 2010, 714, L128-L132.	8.3	90
56	Deriving solar transient characteristics from single spacecraft STEREO/HI elongation variations: a theoretical assessment of the technique. Annales Geophysicae, 2009, 27, 4359-4368.	1.6	25
57	The Heliospheric Imagers Onboard the STEREO Mission. Solar Physics, 2009, 254, 387-445.	2.5	312
58	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. Solar Physics, 2009, 256, 307-326.	2.5	93
59	Two Years of the STEREO Heliospheric Imagers. Solar Physics, 2009, 256, 219-237.	2.5	47
60	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
61	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
62	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
63	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
64	The radial width of a Coronal Mass Ejection between 0.1 and 0.4 AU estimated from the Heliospheric Imager on STEREO. Annales Geophysicae, 2009, 27, 4349-4358.	1.6	44
65	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
66	Formation of the lowâ€latitude boundary layer and cusp under the northward IMF: Simultaneous observations by Cluster and Double Star. Journal of Geophysical Research, 2008, 113, .	3.3	32
67	First imaging of corotating interaction regions using the STEREO spacecraft. Geophysical Research Letters, 2008, 35, .	4.0	165
68	Simultaneous interplanetary scintillation and Heliospheric Imager observations of a coronal mass ejection. Geophysical Research Letters, 2008, 35, .	4.0	8
69	A comparison of Cluster magnetic data with the Tsyganenko 2001 model. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	24
70	Global observations of energetic electrons around the time of a substorm on 27 August 2001. Journal of Geophysical Research, 2005, 110, .	3.3	12
71	On the formation of the high-altitude stagnant cusp: Cluster observations. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	24