

# Jie Zhang

## List of Publications by Year in descending order

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113  
papers

6,133  
citations

76196

40  
h-index

71532

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116  
all docs

116  
docs citations

116  
times ranked

2353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Helium Abundance between ICMEs and Solar Wind near 1 au. <i>Astrophysical Journal</i> , 2022, 925, 137.	1.6	5
2	Resolving Two Distinct Thermal X-Ray Components in a Compound Solar Flare. <i>Astrophysical Journal</i> , 2022, 925, 132.	1.6	0
3	Eruption of the EUV Hot Channel from the Solar Limb and Associated Moving Type IV Radio Burst. <i>Astrophysical Journal</i> , 2022, 927, 108.	1.6	4
4	A Comparison of the CIR and CME-Induced Geomagnetic Activity Effects on Mesosphere and Lower Thermospheric Temperature. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029029.	0.8	11
5	Geosynchronous Magnetopause Crossings and Their Relationships With Magnetic Storms and Substorms. <i>Space Weather</i> , 2021, 19, e2020SW002704.	1.3	1
6	The Inhomogeneity of Composition Along the Magnetic Cloud Axis. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	4
7	Modeling the Observed Distortion of Multiple (Ghost) CME Fronts in STEREO Heliospheric Imagers. <i>Astrophysical Journal Letters</i> , 2021, 917, L16.	3.0	9
8	Earth-affecting solar transients: a review of progresses in solar cycle 24. <i>Progress in Earth and Planetary Science</i> , 2021, 8, 56.	1.1	56
9	When do solar erupting hot magnetic flux ropes form?. <i>Astronomy and Astrophysics</i> , 2020, 642, A109.	2.1	17
10	Decoding the Pre-Eruptive Magnetic Field Configurations of Coronal Mass Ejections. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	77
11	Initiation and Early Kinematic Evolution of Solar Eruptions. <i>Astrophysical Journal</i> , 2020, 894, 85.	1.6	59
12	Probing the Thermodynamic State of a Coronal Mass Ejection (CME) Up to 1 AU. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	8
13	WISPR Imaging of a Pristine CME. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 25.	3.0	31
14	External reconnection and resultant reconfiguration of overlying magnetic fields during sympathetic eruptions of two filaments. <i>Astronomy and Astrophysics</i> , 2020, 640, A101.	2.1	17
15	Using the "Ghost Front" to Predict the Arrival Time and Speed of CMEs at Venus and Earth. <i>Astrophysical Journal</i> , 2020, 899, 143.	1.6	9
16	Recurring Homologous Solar Eruptions in NOAA AR 11429. <i>Astrophysical Journal</i> , 2020, 901, 40.	1.6	14
17	Activity Complexes and a Prominent Poleward Surge during Solar Cycle 24. <i>Astrophysical Journal</i> , 2020, 904, 62.	1.6	10
18	Eruption of Solar Magnetic Flux Ropes Caused by Flux Feeding. <i>Astrophysical Journal Letters</i> , 2020, 898, L12.	3.0	12

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19	Do All Interplanetary Coronal Mass Ejections Have a Magnetic Flux Rope Structure Near 1 au?. Astrophysical Journal Letters, 2020, 901, L21.	3.0	9
20	Why Do Torus-unstable Solar Filaments Experience Failed Eruptions?. Astrophysical Journal Letters, 2019, 877, L28.	3.0	35
21	On the Nature of the Bright Core of Solar Coronal Mass Ejections. Astrophysical Journal, 2019, 883, 43.	1.6	19
22	The Origin of Major Solar Activity: Collisional Shearing between Nonconjugated Polarities of Multiple Bipoles Emerging within Active Regions. Astrophysical Journal, 2019, 871, 67.	1.6	47
23	Modeling solar energetic particle transport in 3D background solar wind: Influences of the compression regions. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 182, 155-164.	0.6	12
24	Mass loss via solar wind and coronal mass ejections during solar cycles 23 and 24. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4671-4685.	1.6	21
25	The Structure of Solar Coronal Mass Ejections in the Extreme-ultraviolet Passbands. Astrophysical Journal, 2019, 887, 124.	1.6	15
26	Correlation Between the Magnetic Field and Plasma Parameters at 1 AU. Solar Physics, 2018, 293, 1.	1.0	7
27	Properties of a Small-scale Short-duration Solar Eruption with a Driven Shock. Astrophysical Journal, 2018, 856, 24.	1.6	12
28	Eruption of a multi-flux-rope system in solar active region 12673 leading to the two largest flares in Solar Cycle 24. Astronomy and Astrophysics, 2018, 619, A100.	2.1	59
29	Three-dimensional MHD Simulation of Solar Wind Using a New Boundary Treatment: Comparison with In Situ Data at Earth. Astrophysical Journal, 2018, 866, 18.	1.6	38
30	The Reversal of a Solar Prominence Rotation about Its Ascending Direction during a Failed Eruption. Astrophysical Journal Letters, 2018, 864, L37.	3.0	14
31	A Study of a Compound Solar Eruption with Two Consecutive Erupting Magnetic Structures. Astrophysical Journal, 2018, 860, 35.	1.6	19
32	Editorial: Earth-affecting Solar Transients. Solar Physics, 2018, 293, 1.	1.0	6
33	Observational Study of an Earth-affecting Problematic ICME from STEREO. Astrophysical Journal, 2018, 863, 108.	1.6	15
34	Editorial: Earth-affecting Solar Transients. , 2018, , 1-6.		0
35	Correlation Between the Magnetic Field and Plasma Parameters at 1 AU. , 2018, , 621-633.		0
36	The Formation and Maintenance of the Dominant Southern Polar Crown Cavity of Cycle 24. Astrophysical Journal, 2017, 835, 135.	1.6	7

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37	A Study of the Earth-Affecting CMEs of Solar Cycle 24. <i>Solar Physics</i> , 2017, 292, 1.	1.0	36
38	The Three-part Structure of a Filament-unrelated Solar Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2017, 848, 21.	1.6	17
39	In Situ Analysis of Heliospheric Current Sheet Propagation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9803-9814.	0.8	5
40	The Origin of Solar Filament Plasma Inferred from In Situ Observations of Elemental Abundances. <i>Astrophysical Journal Letters</i> , 2017, 836, L11.	3.0	28
41	Toward Understanding the 3D Structure and Evolution of Magnetic Flux Ropes in an Extremely Long Duration Eruptive Flare. <i>Astrophysical Journal</i> , 2017, 851, 133.	1.6	22
42	A Study of External Magnetic Reconnection that Triggers a Solar Eruption. <i>Astrophysical Journal Letters</i> , 2017, 851, L1.	3.0	10
43	A Study of the Earth-Affecting CMEs of Solar Cycle 24. , 2017, , 7-26.		0
44	OBSERVATIONS OF MAGNETIC FLUX-ROPE OSCILLATION DURING THE PRECURSOR PHASE OF A SOLAR ERUPTION. <i>Astrophysical Journal Letters</i> , 2016, 823, L19.	3.0	32
45	THERMODYNAMIC SPECTRUM OF SOLAR FLARES BASED ON SDO/EVE OBSERVATIONS: TECHNIQUES AND FIRST RESULTS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 4.	3.0	23
46	Flux rope proxies and fan-spine structures in active region NOAA 11897. <i>Astronomy and Astrophysics</i> , 2016, 592, A138.	2.1	32
47	A STATISTICAL STUDY OF THE AVERAGE IRON CHARGE STATE DISTRIBUTIONS INSIDE MAGNETIC CLOUDS FOR SOLAR CYCLE 23. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 27.	3.0	32
48	OBSERVATION OF MAGNETIC RECONNECTION AT A 3D NULL POINT ASSOCIATED WITH A SOLAR ERUPTION. <i>Astrophysical Journal Letters</i> , 2016, 830, L4.	3.0	7
49	Scientific objectives and capabilities of the Coronal Solar Magnetism Observatory. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7470-7487.	0.8	40
50	On the propagation of a geoeffective coronal mass ejection during 15â€“17 March 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7423-7434.	0.8	36
51	OSCILLATION OF CURRENT SHEETS IN THE WAKE OF A FLUX ROPE ERUPTION OBSERVED BY THE SOLAR DYNAMICS OBSERVATORY. <i>Astrophysical Journal Letters</i> , 2016, 829, L33.	3.0	40
52	An Observational Study of the Recurring Formation and Dissipation of a Dynamic Filament. <i>Solar Physics</i> , 2016, 291, 2373-2390.	1.0	7
53	STUDY OF THE 3D GEOMETRIC STRUCTURE AND TEMPERATURE OF A CORONAL CAVITY USING THE LIMB SYNOPTIC MAP METHOD. <i>Astrophysical Journal</i> , 2015, 810, 124.	1.6	12
54	PREDICTING CME EJECTA AND SHEATH FRONT ARRIVAL AT L1 WITH A DATA-CONSTRAINED PHYSICAL MODEL. <i>Astrophysical Journal</i> , 2015, 812, 144.	1.6	37

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55	Flux rope proxies during 2013 detected by the Solar Dynamics Observatory. <i>Astronomy and Astrophysics</i> , 2015, 580, A2.	2.1	20
56	MODELING SUPERSONIC-JET DEFLECTION IN THE HERBIGâ€“HARO 110-270 SYSTEM WITH HIGH-POWER LASERS. <i>Astrophysical Journal</i> , 2015, 815, 46.	1.6	11
57	EVIDENCE OF THE SOLAR EUV HOT CHANNEL AS A MAGNETIC FLUX ROPE FROM REMOTE-SENSING AND IN SITU OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2015, 808, L15.	3.0	32
58	APPEARANCES AND STATISTICS OF CORONAL CAVITIES DURING THE ASCENDING PHASE OF SOLAR CYCLE 24. <i>Astrophysical Journal</i> , 2015, 810, 123.	1.6	15
59	ARE HALO-LIKE SOLAR CORONAL MASS EJECTIONS MERELY A MATTER OF GEOMETRIC PROJECTION EFFECTS?. <i>Astrophysical Journal Letters</i> , 2015, 799, L29.	3.0	44
60	THE FIRST TASTE OF A HOT CHANNEL IN INTERPLANETARY SPACE. <i>Astrophysical Journal</i> , 2015, 803, 96.	1.6	12
61	ACCELERATION PHASES OF A SOLAR FILAMENT DURING ITS ERUPTION. <i>Astrophysical Journal Letters</i> , 2015, 804, L38.	3.0	23
62	Extreme ultraviolet imaging of three-dimensional magnetic reconnection in a solar eruption. <i>Nature Communications</i> , 2015, 6, 7598.	5.8	49
63	EXTREMELY LARGE EUV LATE PHASE OF SOLAR FLARES. <i>Astrophysical Journal</i> , 2015, 802, 35.	1.6	22
64	PREDICTING THE ARRIVAL TIME OF CORONAL MASS EJECTIONS WITH THE GRADUATED CYLINDRICAL SHELL AND DRAG FORCE MODEL. <i>Astrophysical Journal</i> , 2015, 806, 271.	1.6	46
65	TRACKING THE EVOLUTION OF A COHERENT MAGNETIC FLUX ROPE CONTINUOUSLY FROM THE INNER TO THE OUTER CORONA. <i>Astrophysical Journal</i> , 2014, 780, 28.	1.6	74
66	THE SOLAR ENERGETIC PARTICLE EVENT ON 2013 APRIL 11: AN INVESTIGATION OF ITS SOLAR ORIGIN AND LONGITUDINAL SPREAD. <i>Astrophysical Journal</i> , 2014, 797, 8.	1.6	76
67	INITIATION AND ERUPTION PROCESS OF MAGNETIC FLUX ROPE FROM SOLAR ACTIVE REGION NOAA 11719 TO EARTH-DIRECTED CME. <i>Astrophysical Journal</i> , 2014, 797, 80.	1.6	32
68	ON THE RELATIONSHIP BETWEEN A HOT-CHANNEL-LIKE SOLAR MAGNETIC FLUX ROPE AND ITS EMBEDDED PROMINENCE. <i>Astrophysical Journal Letters</i> , 2014, 789, L35.	3.0	74
69	FORMATION OF A DOUBLE-DECKER MAGNETIC FLUX ROPE IN THE SIGMOIDAL SOLAR ACTIVE REGION 11520. <i>Astrophysical Journal</i> , 2014, 789, 93.	1.6	111
70	TEMPERATURE EVOLUTION OF A MAGNETIC FLUX ROPE IN A FAILED SOLAR ERUPTION. <i>Astrophysical Journal</i> , 2014, 784, 48.	1.6	47
71	DIRECT OBSERVATIONS OF MAGNETIC FLUX ROPE FORMATION DURING A SOLAR CORONAL MASS EJECTION. <i>Astrophysical Journal Letters</i> , 2014, 792, L40.	3.0	56
72	Evolution of the 12 July 2012 CME from the Sun to the Earth: Dataâ€“constrained threeâ€“dimensional MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7128-7141.	0.8	70

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73	NEW INSIGHTS INTO THE PHYSICAL NATURE OF CORONAL MASS EJECTIONS AND ASSOCIATED SHOCK WAVES WITHIN THE FRAMEWORK OF THE THREE-DIMENSIONAL STRUCTURE. <i>Astrophysical Journal</i> , 2014, 794, 148.	1.6	75
74	STEREOSCOPIC STUDY OF THE KINEMATIC EVOLUTION OF A CORONAL MASS EJECTION AND ITS DRIVEN SHOCK FROM THE SUN TO THE EARTH AND THE PREDICTION OF THEIR ARRIVAL TIMES. <i>Astrophysical Journal</i> , 2014, 792, 49.	1.6	60
75	A Comparative Study of Coronal Mass Ejections with and Without Magnetic Cloud Structure near the Earth: Are All Interplanetary CMEs Flux Ropes?. <i>Solar Physics</i> , 2013, 284, 89-104.	1.0	27
76	GLOBAL CORONAL SEISMOLOGY IN THE EXTENDED SOLAR CORONA THROUGH FAST MAGNETOSONIC WAVES OBSERVED BY <i>STEREO</i> /SECCHI COR1. <i>Astrophysical Journal</i> , 2013, 776, 55.	1.6	24
77	RECONSTRUCTING THE SUBSURFACE THREE-DIMENSIONAL MAGNETIC STRUCTURE OF A SOLAR ACTIVE REGION USING <i>SDO</i> /HMI OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2013, 764, L3.	3.0	28
78	INVESTIGATING TWO SUCCESSIVE FLUX ROPE ERUPTIONS IN A SOLAR ACTIVE REGION. <i>Astrophysical Journal Letters</i> , 2013, 769, L25.	3.0	75
79	A STUDY OF FAST FLARELESS CORONAL MASS EJECTIONS. <i>Astrophysical Journal</i> , 2013, 773, 129.	1.6	28
80	ON THE ORIGIN OF THE EXTREME-ULTRAVIOLET LATE PHASE OF SOLAR FLARES. <i>Astrophysical Journal</i> , 2013, 768, 150.	1.6	39
81	THE DRIVER OF CORONAL MASS EJECTIONS IN THE LOW CORONA: A FLUX ROPE. <i>Astrophysical Journal</i> , 2013, 763, 43.	1.6	115
82	Eruptions of two flux ropes observed by <i>SDO</i> and <i>STEREO</i> . <i>Astronomy and Astrophysics</i> , 2013, 552, L11.	2.1	49
83	INVESTIGATION OF THE FORMATION AND SEPARATION OF AN EXTREME-ULTRAVIOLET WAVE FROM THE EXPANSION OF A CORONAL MASS EJECTION. <i>Astrophysical Journal Letters</i> , 2012, 745, L5.	3.0	100
84	THREE-DIMENSIONAL STRUCTURE AND EVOLUTION OF EXTREME-ULTRAVIOLET BRIGHT POINTS OBSERVED BY <i>STEREO</i> /SECCHI/EUVI. <i>Astrophysical Journal</i> , 2012, 757, 167.	1.6	15
85	DIFFERENTIAL EMISSION MEASURE ANALYSIS OF MULTIPLE STRUCTURAL COMPONENTS OF CORONAL MASS EJECTIONS IN THE INNER CORONA. <i>Astrophysical Journal</i> , 2012, 761, 62.	1.6	229
86	Observation of an evolving magnetic flux rope before and during a solar eruption. <i>Nature Communications</i> , 2012, 3, 747.	5.8	247
87	Energy transfer during intense geomagnetic storms driven by interplanetary coronal mass ejections and their sheath regions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	48
88	A COMPARATIVE STUDY OF CONFINED AND ERUPTIVE FLARES IN NOAA AR 10720. <i>Astrophysical Journal</i> , 2011, 732, 87.	1.6	86
89	Interplanetary drivers of ionospheric prompt penetration electric fields. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 130-136.	0.6	14
90	OBSERVING FLUX ROPE FORMATION DURING THE IMPULSIVE PHASE OF A SOLAR ERUPTION. <i>Astrophysical Journal Letters</i> , 2011, 732, L25.	3.0	186

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91	STEREOSCOPIC DETERMINATION OF HEIGHTS OF EXTREME ULTRAVIOLET BRIGHT POINTS USING DATA TAKEN BY SECCHI/EUVI ABOARD STEREO. <i>Astrophysical Journal</i> , 2010, 714, 130-137.	1.6	18
92	STATISTICAL PROPERTIES OF SOLAR ACTIVE REGIONS OBTAINED FROM AN AUTOMATIC DETECTION SYSTEM AND THE COMPUTATIONAL BIASES. <i>Astrophysical Journal</i> , 2010, 723, 1006-1018.	1.6	45
93	CORONAL MASS EJECTION PROPAGATION AND EXPANSION IN THREE-DIMENSIONAL SPACE IN THE HELIOSPHERE BASED ON STEREO/SECCHI OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2010, 717, L159-L163.	3.0	40
94	PARTIAL TORUS INSTABILITY. <i>Astrophysical Journal</i> , 2010, 718, 433-440.	1.6	110
95	RE-FLARING OF A POST-FLARE LOOP SYSTEM DRIVEN BY FLUX ROPE EMERGENCE AND TWISTING. <i>Astrophysical Journal Letters</i> , 2010, 716, L68-L73.	3.0	29
96	Statistical properties and geoefficiency of interplanetary coronal mass ejections and their sheaths during intense geomagnetic storms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
97	On the relationship between thermosphere density and solar wind parameters during intense geomagnetic storms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
98	The Chinese Spectral Radioheliograph "CSRH. <i>Earth, Moon and Planets</i> , 2009, 104, 97-100.	0.3	107
99	An analytical model probing the internal state of coronal mass ejections based on observations of their expansions and propagations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	30
100	Automatic Detection and Tracking of Coronal Mass Ejections in Coronagraph Time Series. <i>Solar Physics</i> , 2008, 248, 485-499.	1.0	116
101	Multiple-step geomagnetic storms and their interplanetary drivers. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	21
102	Sizes and relative geoeffectiveness of interplanetary coronal mass ejections and the preceding shock sheaths during intense storms in 1996-2005. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	27
103	Interplanetary origin of multiple-dip geomagnetic storms. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	21
104	A Comparative Study between Eruptive X-Class Flares Associated with Coronal Mass Ejections and Confined X-Class Flares. <i>Astrophysical Journal</i> , 2007, 665, 1428-1438.	1.6	155
105	Solar and interplanetary sources of major geomagnetic storms ( $Dst \sim 100$ nT) during 1996-2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	485
106	Correction to "Solar and interplanetary sources of major geomagnetic storms ( $Dst \sim 100$ nT) during 1996-2005". <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
107	Major geomagnetic storms ( $Dst \sim 100$ nT) generated by corotating interaction regions. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	159
108	A Statistical Study of Main and Residual Accelerations of Coronal Mass Ejections. <i>Astrophysical Journal</i> , 2006, 649, 1100-1109.	1.6	218

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109	Impact of Major Coronal Mass Ejections on Geospace during 2005 September 7–13. <i>Astrophysical Journal</i> , 2006, 646, 625-633.	1.6	51
110	Two Successive Coronal Mass Ejections Driven by the Kink and Drainage Instabilities of an Eruptive Prominence. <i>Astrophysical Journal</i> , 2006, 651, 1238-1244.	1.6	47
111	A Study of the Kinematic Evolution of Coronal Mass Ejections. <i>Astrophysical Journal</i> , 2004, 604, 420-432.	1.6	224
112	Identification of Solar Sources of Major Geomagnetic Storms between 1996 and 2000. <i>Astrophysical Journal</i> , 2003, 582, 520-533.	1.6	202
113	On the Temporal Relationship between Coronal Mass Ejections and Flares. <i>Astrophysical Journal</i> , 2001, 559, 452-462.	1.6	589