

# Lan Jian

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115  
papers

3,021  
citations

30  
h-index

50  
g-index

132  
ext. papers

3,520  
ext. citations

4.1  
avg, IF

5.12  
L-index

#	Paper	IF	Citations
115	The Extended Field-aligned Suprathermal Proton Beam and Long-lasting Trapped Energetic Particle Population Observed Upstream of a Transient Interplanetary Shock. <i>Astrophysical Journal</i> , <b>2022</b> , 925, 198	4.7	0
114	Modeling Ion Beams, Kinetic Instabilities, and Waves Observed by the Parker Solar Probe near Perihelia. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 185	4.7	0
113	The Solar Wind at (16) Psyche: Predictions for a Metal World. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 202	4.7	0
112	Solar Wind ~0.15–1.5 keV Electrons around Corotating Interaction Regions at 1 au. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 198	4.7	1
111	Categorization of Coronal Mass Ejection-driven Sheath Regions: Characteristics of STEREO Events. <i>Astrophysical Journal</i> , <b>2021</b> , 921, 57	4.7	2
110	Magnetic Field and Plasma Density Observations of a Pressure Front by Voyager 1 during 2020 in the Very Local Interstellar Medium. <i>Astrophysical Journal</i> , <b>2021</b> , 911, 61	4.7	8
109	CME Magnetic Structure and IMF Preconditioning Affecting SEP Transport. <i>Space Weather</i> , <b>2021</b> , 19, e2020SW002654	3.7	5
108	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> , <b>2021</b> , 126, e2020JA029029	2.6	5
107	A living catalog of stream interaction regions in the Parker Solar Probe era. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 650, A25	5.1	5
106	Magnetic Fields Observed by Voyager 2 in the Heliosheath. <i>Astrophysical Journal</i> , <b>2021</b> , 906, 119	4.7	5
105	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREO-A. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091376	4.9	6
104	The unusual widespread solar energetic particle event on 2013 August 19. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 653, A137	5.1	1
103	Proton Temperature Anisotropy Variations in Inner Heliosphere Estimated with the First Parker Solar Probe Observations. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 70	8	30
102	FIDO-SIT: The First Forward Model for the In Situ Magnetic Field of CME-Driven Sheaths. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027423	2.6	5
101	Voyager 1 and 2 Observations of a Change in the Nature of Magnetic Fluctuations in the VLISM with Increasing Distance from the Heliopause. <i>Astronomical Journal</i> , <b>2020</b> , 160, 40	4.9	6
100	Analysis of the Internal Structure of the Streamer Blowout Observed by the Parker Solar Probe During the First Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 63	8	18
99	Solar Wind Streams and Stream Interaction Regions Observed by the Parker Solar Probe with Corresponding Observations at 1 au. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 36	8	19

98	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 20	8	14
97	Predictive Capabilities and Limitations of Stream Interaction Region Observations at Different Solar Longitudes. <i>Space Weather</i> , <b>2020</b> , 18, e2019SW002437	3.7	7
96	ICME Evolution in the Inner Heliosphere. <i>Solar Physics</i> , <b>2020</b> , 295, 1	2.6	17
95	Intermittency and q-Gaussian Distributions in the Magnetic Field of the Very Local Interstellar Medium (VLISM) Observed by Voyager 1 and Voyager 2. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 901, L2	7.9	2
94	Properties of the Sheath Regions of Coronal Mass Ejections with or without Shocks from STEREO in situ Observations near 1 au. <i>Astrophysical Journal</i> , <b>2020</b> , 904, 177	4.7	6
93	The Streamer Blowout Origin of a Flux Rope and Energetic Particle Event Observed by Parker Solar Probe at 0.5 au. <i>Astrophysical Journal</i> , <b>2020</b> , 897, 134	4.7	7
92	Unexpected Behavior of the Solar Wind Mass Flux During Solar Maxima: Two Peaks at Middle Heliolatitudes. <i>Solar Physics</i> , <b>2019</b> , 294, 1	2.6	13
91	A Magnetic Pressure Front Upstream of the Heliopause and the Heliosheath Magnetic Fields and Plasma, Observed during 2017. <i>Astrophysical Journal</i> , <b>2019</b> , 877, 31	4.7	9
90	(STEREO) Observations of Stream Interaction Regions in 2007 - 2016: Relationship with Heliospheric Current Sheets, Solar Cycle Variations, and Dual Observations. <i>Solar Physics</i> , <b>2019</b> , 294, 1	2.6	27
89	Unraveling the Internal Magnetic Field Structure of the Earth-directed Interplanetary Coronal Mass Ejections During 1995 - 2015. <i>Solar Physics</i> , <b>2019</b> , 294, 1	2.6	26
88	The Solar Clock. <i>Reviews of Geophysics</i> , <b>2019</b> , 57, 1129-1145	23.1	2
87	Magnetic field and particle measurements made by Voyager 2 at and near the heliopause. <i>Nature Astronomy</i> , <b>2019</b> , 3, 1007-1012	12.1	42
86	A Clock in the Sun?. <i>Proceedings of the International Astronomical Union</i> , <b>2019</b> , 15, 127-133	0.1	
85	Benchmarking CME Arrival Time and Impact: Progress on Metadata, Metrics, and Events. <i>Space Weather</i> , <b>2019</b> , 17, 6-26	3.7	28
84	Using Forbush Decreases to Derive the Transit Time of ICMEs Propagating from 1 AU to Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 39-56	2.6	16
83	STEREO Observations of Interplanetary Coronal Mass Ejections in 2007-2016. <i>Astrophysical Journal</i> , <b>2018</b> , 855, 114	4.7	38
82	Verification of real-time WSAENLIL+Cone simulations of CME arrival-time at the CCMC from 2010 to 2016. <i>Journal of Space Weather and Space Climate</i> , <b>2018</b> , 8, A17	2.5	45
81	Assessing the Quality of Models of the Ambient Solar Wind. <i>Space Weather</i> , <b>2018</b> , 16, 1644-1667	3.7	30

80	In Situ Analysis of Heliospheric Current Sheet Propagation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9803-9814	2.6	5
79	Validation for global solar wind prediction using Ulysses comparison: Multiple coronal and heliospheric models installed at the Community Coordinated Modeling Center. <i>Space Weather</i> , <b>2016</b> , 14, 592-611	3.7	29
78	A PROTON-CYCLOTRON WAVE STORM GENERATED BY UNSTABLE PROTON DISTRIBUTION FUNCTIONS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , <b>2016</b> , 819, 6	4.7	41
77	MULTI-SPACECRAFT ANALYSIS OF ENERGETIC HEAVY ION AND INTERPLANETARY SHOCK PROPERTIES IN ENERGETIC STORM PARTICLE EVENTS NEAR 1 au. <i>Astrophysical Journal</i> , <b>2016</b> , 831, 153	4.7	5
76	Prompt injections of highly relativistic electrons induced by interplanetary shocks: A statistical study of Van Allen Probes observations. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 12,317	4.9	23
75	SHOCK CONNECTIVITY IN THE 2010 AUGUST AND 2012 JULY SOLAR ENERGETIC PARTICLE EVENTS INFERRED FROM OBSERVATIONS AND ENLIL MODELING. <i>Astrophysical Journal</i> , <b>2016</b> , 825, 1	4.7	30
74	Electromagnetic cyclotron waves in the solar wind: Wind observation and wave dispersion analysis <b>2016</b> ,		7
73	Ion-driven instabilities in the solar wind: Wind observations of 19 March 2005. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 30-41	2.6	52
72	Ion Cyclotron Waves in the Solar Wind. <i>Geophysical Monograph Series</i> , <b>2016</b> , 253-267	1.1	4
71	Interplanetary shocks and foreshocks observed by STEREO during 2007-2010. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 992-1008	2.6	25
70	Low-frequency waves within isolated magnetic clouds and complex structures: STEREO observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 2363-2381	2.6	10
69	Validation for solar wind prediction at Earth: Comparison of coronal and heliospheric models installed at the CCMC. <i>Space Weather</i> , <b>2015</b> , 13, 316-338	3.7	64
68	Ensemble Modeling of CMEs Using the WSA-ENLIL+Cone Model. <i>Solar Physics</i> , <b>2015</b> , 290, 1775-1814	2.6	132
67	The impact of a slow interplanetary coronal mass ejection on Venus. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 3489-3502	2.6	13
66	PROPAGATION OF THE 2014 JANUARY 7 CME AND RESULTING GEOMAGNETIC NON-EVENT. <i>Astrophysical Journal</i> , <b>2015</b> , 812, 145	4.7	29
65	MESSENGER survey of in situ low frequency wave storms between 0.3 and 0.7 AU. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 10,207-10,220	2.6	15
64	Why have geomagnetic storms been so weak during the recent solar minimum and the rising phase of cycle 24?. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2014</b> , 107, 12-19	2	25
63	A statistical analysis of heliospheric plasma sheets, heliospheric current sheets, and sector boundaries observed in situ by STEREO. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8721-8732	2.6	25

62	An Ensemble Study of a January 2010 Coronal Mass Ejection (CME): Connecting a Non-obvious Solar Source with Its ICME/Magnetic Cloud. <i>Solar Physics</i> , <b>2014</b> , 289, 4173-4208	2.6	4
61	Generation and propagation of ion cyclotron waves in nonuniform magnetic field: Application to the corona and solar wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8750-8763	2.6	4
60	Ninety degrees pitch angle enhancements of suprathermal electrons associated with interplanetary shocks. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 7038-7060	2.6	6
59	Generation of ion cyclotron waves in the corona and solar wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1442-1454	2.6	17
58	ELECTROMAGNETIC WAVES NEAR THE PROTON CYCLOTRON FREQUENCY:STEREOOBSERVATIONS. <i>Astrophysical Journal</i> , <b>2014</b> , 786, 123	4.7	54
57	Heliospheric Imaging of 3D Density Structures During the Multiple Coronal Mass Ejections of Late July to Early August 2010. <i>Solar Physics</i> , <b>2013</b> , 285, 317-348	2.6	31
56	How unprecedented a solar minimum was it?. <i>Journal of Advanced Research</i> , <b>2013</b> , 4, 253-8	13	6
55	Mirror-mode storms inside stream interaction regions and in the ambient solar wind: A kinetic study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 17-28	2.6	11
54	Solar wind observations at STEREO: 2007 - 2011 <b>2013</b> ,		26
53	Solar wind ion observations: Comparison from the depths of solar minimum to the rising of the cycle <b>2013</b> ,		2
52	STEREO interplanetary shocks and foreshocks <b>2013</b> ,		4
51	Burst mode trigger of STEREO in situ measurements <b>2013</b> ,		4
50	Electron distributions upstream and downstream of ICME driven IP shocks <b>2013</b> ,		2
49	INNER HELIOSPHERIC EVOLUTION OF A STEALTHICME DERIVED FROM MULTI-VIEW IMAGING AND MULTIPOINT IN SITU OBSERVATIONS. I. PROPAGATION TO 1 AU. <i>Astrophysical Journal</i> , <b>2013</b> , 779, 55	4.7	43
48	Observations of ICMEs and ICME-like Solar Wind Structures from 2007 ∟2010 Using Near-Earth and STEREO Observations. <i>Solar Physics</i> , <b>2012</b> , 281, 391	2.6	28
47	Interpreting some properties of CIRs and their associated shocks during the last two solar minima using global MHD simulations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 83, 11-21	2	10
46	Waves upstream and downstream of interplanetary shocks driven by coronal mass ejections. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		48
45	Heliospheric Observations of STEREO-Directed Coronal Mass Ejections in 2008 ∟2010: Lessons for Future Observations of Earth-Directed CMes. <i>Solar Physics</i> , <b>2012</b> , 279, 497-515	2.6	20

44	The Radial Variation of Interplanetary Shocks in the Inner Heliosphere: Observations by Helios, MESSENGER, and STEREO. <i>Solar Physics</i> , <b>2012</b> , 278, 421-433	2.6	7
43	On the relationship between magnetic cloud field polarity and geoeffectiveness. <i>Annales Geophysicae</i> , <b>2012</b> , 30, 1037-1050	2	26
42	MULTI-POINT SHOCK AND FLUX ROPE ANALYSIS OF MULTIPLE INTERPLANETARY CORONAL MASS EJECTIONS AROUND 2010 AUGUST 1 IN THE INNER HELIOSPHERE. <i>Astrophysical Journal</i> , <b>2012</b> , 758, 10	4.7	95
41	Whistler waves associated with weak interplanetary shocks. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		20
40	Dual observations of interplanetary shocks associated with stream interaction regions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		9
39	Interplanetary conditions: lessons from this minimum. <i>Proceedings of the International Astronomical Union</i> , <b>2011</b> , 7, 168-178	0.1	2
38	Comparing Solar Minimum 23/24 with Historical Solar Wind Records at 1 AU. <i>Solar Physics</i> , <b>2011</b> , 274, 321-344	2.6	110
37	Comparison of Observations at ACE and Ulysses with Enlil Model Results: Stream Interaction Regions During Carrington Rotations 2016 & 2018. <i>Solar Physics</i> , <b>2011</b> , 273, 179-203	2.6	49
36	EVOLUTION OF CORONAL MASS EJECTION MORPHOLOGY WITH INCREASING HELIOCENTRIC DISTANCE. II. IN SITU OBSERVATIONS. <i>Astrophysical Journal</i> , <b>2011</b> , 732, 117	4.7	28
35	Multipoint ICME encounters: Pre-STEREO and STEREO observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2011</b> , 73, 1228-1241	2	57
34	Diagnostics of corotating interaction regions with the kinetic properties of iron ions as determined with STEREO/PLASTIC. <i>Annales Geophysicae</i> , <b>2010</b> , 28, 491-497	2	1
33	Statistics of counter-streaming solar wind suprathermal electrons at solar minimum: STEREO observations. <i>Annales Geophysicae</i> , <b>2010</b> , 28, 233-246	2	22
32	Proton Enhancement and Decreased O6+/H at the Heliospheric Current Sheet: Implications for the Origin of Slow Solar Wind <b>2010</b> ,		3
31	Study of Interplanetary Shocks Using Multi-Spacecraft Observations <b>2010</b> ,		1
30	Mirror Mode Structures in the Solar Wind: STEREO Observations <b>2010</b> ,		5
29	Kinetic temperatures of iron ions in the solar wind observed with STEREO/PLASTIC <b>2010</b> ,		2
28	Observations of large-amplitude, narrowband whistlers at stream interaction regions. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		35
27	How unprecedented a solar minimum?. <i>Reviews of Geophysics</i> , <b>2010</b> , 48,	23.1	110

26	Interplanetary field enhancements travel at the solar wind speed. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	7
25	Observations of ion cyclotron waves in the solar wind near 0.3 AU. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		62
24	Organization of Energetic Particles by the Solar Wind Structure During the Declining to Minimum Phase of Solar Cycle 23. <i>Solar Physics</i> , <b>2010</b> , 263, 239-261	2.6	9
23	ION CYCLOTRON WAVES IN THE SOLAR WIND OBSERVED BY STEREO NEAR 1 AU. <i>Astrophysical Journal</i> , <b>2009</b> , 701, L105-L109	4.7	106
22	Small Solar Wind Transients and Their Connection to the Large-Scale Coronal Structure. <i>Solar Physics</i> , <b>2009</b> , 256, 327-344	2.6	59
21	Multi-Spacecraft Observations: Stream Interactions and Associated Structures. <i>Solar Physics</i> , <b>2009</b> , 259, 345-360	2.6	27
20	An unusual current sheet in an ICME: Possible association with C/2006 P1 (McNaught). <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	5
19	Mirror mode structures in the solar wind at 0.72 AU. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		36
18	STEREO observations of shock formation in the solar wind. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	16
17	STEREO observations of upstream and downstream waves at low Mach number shocks. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	30
16	Mirror-mode storms: STEREO observations of protracted generation of small amplitude waves. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	14
15	STUDY OF THE 2007 APRIL 20 CME-COMET INTERACTION EVENT WITH AN MHD MODEL. <i>Astrophysical Journal</i> , <b>2009</b> , 696, L56-L60	4.7	16
14	Solar wind ion trends and signatures: STEREO PLASTIC observations approaching solar minimum. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 3909-3922	2	11
13	Characteristic size and shape of the mirror mode structures in the solar wind at 0.72 AU. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	65
12	Mirror mode waves: Messengers from the coronal heating region. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	40
11	Behavior of current sheets at directional magnetic discontinuities in the solar wind at 0.72 AU. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	25
10	Venus Express observations of an atypically distant bow shock during the passage of an interplanetary coronal mass ejection. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		17
9	Flows and obstacles in the solar wind. <i>Advances in Space Research</i> , <b>2008</b> , 41, 1177-1187	2.4	3

8	Stream Interactions and Interplanetary Coronal Mass Ejections at 0.72 AU. <i>Solar Physics</i> , <b>2008</b> , 249, 85-101	2.6	37
7	Stream Interactions and Interplanetary Coronal Mass Ejections at 5.3 AU near the Solar Ecliptic Plane. <i>Solar Physics</i> , <b>2008</b> , 250, 375-402	2.6	34
6	Evolution of solar wind structures from 0.72 to 1AU. <i>Advances in Space Research</i> , <b>2008</b> , 41, 259-266	2.4	32
5	Growth phase of Jovian substorms. <i>Geophysical Research Letters</i> , <b>2007</b> , 34, n/a-n/a	4.9	17
4	Properties of Stream Interactions at One AU During 1995-2004. <i>Solar Physics</i> , <b>2006</b> , 239, 337-392	2.6	192
3	Properties of Interplanetary Coronal Mass Ejections at One AU During 1995-2004. <i>Solar Physics</i> , <b>2006</b> , 239, 393-436	2.6	244
2	A new parameter to define interplanetary coronal mass ejections. <i>Advances in Space Research</i> , <b>2005</b> , 35, 2178-2184	2.4	31
1	Magnetic Structure and Propagation of Two Interacting CMEs from the Sun to Saturn. <i>Journal of Geophysical Research: Space Physics</i> ,	2.6	1