

Bin Chen

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.

46
papers

1,134
citations

20
h-index

33
g-index

51
ext. papers

1,527
ext. citations

7.4
avg, IF

4.76
L-index

#	Paper	IF	Citations
46	Multiple Electron Acceleration Instances during a Series of Solar Microflares Observed Simultaneously at X-Rays and Microwaves. <i>Astrophysical Journal</i> , 2021 , 922, 134	4.7	2
45	An overall view of temperature oscillations in the solar chromosphere with ALMA. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200174	3	5
44	Radio Spectral Imaging of an M8.4 Eruptive Solar Flare: Possible Evidence of a Termination Shock. <i>Astrophysical Journal</i> , 2021 , 911, 4	4.7	5
43	Imaging Spectroscopy of CME-associated Solar Radio Bursts using OVRO-LWA. <i>Astrophysical Journal</i> , 2021 , 906, 132	4.7	1
42	Plasma Heating Induced by Tadpole-like Downflows in the Flaring Solar Corona. <i>Innovation(China)</i> , 2021 , 2, 100083	17.8	11
41	Energetic Electron Distribution of the Coronal Acceleration Region: First Results from Joint Microwave and Hard X-Ray Imaging Spectroscopy. <i>Astrophysical Journal Letters</i> , 2021 , 908, L55	7.9	7
40	Electron Acceleration during Macroscale Magnetic Reconnection. <i>Physical Review Letters</i> , 2021 , 126, 135101	7.4	24
39	The relation between the energy conversion rate and reconnection rate in Petschek-type reconnection: Implications for solar flares. <i>Physics of Plasmas</i> , 2021 , 28, 082103	2.1	1
38	Coronal Magnetic Field Measurements along a Partially Erupting Filament in a Solar Flare. <i>Astrophysical Journal</i> , 2021 , 923, 213	4.7	0
37	A Survey of Computational Tools in Solar Physics. <i>Solar Physics</i> , 2020 , 295, 1	2.6	2
36	Microwave Spectral Imaging of an Erupting Magnetic Flux Rope: Implications for the Standard Solar Flare Model in Three Dimensions. <i>Astrophysical Journal Letters</i> , 2020 , 895, L50	7.9	23
35	Evolution of Flare-Accelerated Electrons Quantified by Spatially Resolved Analysis. <i>Frontiers in Astronomy and Space Sciences</i> , 2020 , 7,	3.8	1
34	Accelerated Electrons Observed Down to . <i>Astrophysical Journal Letters</i> , 2020 , 891,	7.9	23
33	Decay of the coronal magnetic field can release sufficient energy to power a solar flare. <i>Science</i> , 2020 , 367, 278-280	33.3	45
32	Drifting Pulsation Structure at the Very Beginning of the 2017 September 10 Limb Flare. <i>Astrophysical Journal</i> , 2020 , 889, 72	4.7	12
31	Magnetic Reconnection during the Post-impulsive Phase of a Long-duration Solar Flare: Bidirectional Outflows as a Cause of Microwave and X-Ray Bursts. <i>Astrophysical Journal</i> , 2020 , 900, 17	4.7	20
30	Radio and X-Ray Observations of Short-lived Episodes of Electron Acceleration in a Solar Microflare. <i>Astrophysical Journal</i> , 2020 , 904, 94	4.7	5

29	Hot Plasma Flows and Oscillations in the Loop-top Region During the 2017 September 10 X8.2 Solar Flare. <i>Astrophysical Journal</i> , 2020 , 905, 165	4-7	12
28	Dynamical Modulation of Solar Flare Electron Acceleration due to Plasmoid-shock Interactions in the Looptop Region. <i>Astrophysical Journal Letters</i> , 2020 , 905, L16	7-9	5
27	Measurement of magnetic field and relativistic electrons along a solar flare current sheet. <i>Nature Astronomy</i> , 2020 , 4, 1140-1147	12.1	39
26	Possible Detection of Subsecond-period Propagating Magnetohydrodynamics Waves in Post-reconnection Magnetic Loops during a Two-ribbon Solar Flare. <i>Astrophysical Journal</i> , 2019 , 872, 71	4-7	13
25	The Acceleration and Confinement of Energetic Electrons by a Termination Shock in a Magnetic Trap: An Explanation for Nonthermal Loop-top Sources during Solar Flares. <i>Astrophysical Journal Letters</i> , 2019 , 887, L37	7-9	17
24	Radio Spectroscopic Imaging of a Solar Flare Termination Shock: Split-band Feature as Evidence for Shock Compression. <i>Astrophysical Journal</i> , 2019 , 884, 63	4-7	12
23	Microwave and Hard X-Ray Observations of the 2017 September 10 Solar Limb Flare. <i>Astrophysical Journal</i> , 2018 , 863, 83	4-7	99
22	The Dynamical Behavior of Reconnection-driven Termination Shocks in Solar Flares: Magnetohydrodynamic Simulations. <i>Astrophysical Journal</i> , 2018 , 869, 116	4-7	18
21	Magnetic Reconnection Null Points as the Origin of Semirelativistic Electron Beams in a Solar Jet. <i>Astrophysical Journal</i> , 2018 , 866, 62	4-7	32
20	Broad Non-Gaussian Fe xxiv Line Profiles in the Impulsive Phase of the 2017 September 10 X8.3-class Flare Observed by Hinode/EIS. <i>Astrophysical Journal</i> , 2018 , 864, 63	4-7	34
19	Dynamic Spectral Imaging of Decimetric Fiber Bursts in an Eruptive Solar Flare. <i>Astrophysical Journal</i> , 2017 , 848, 77	4-7	8
18	Observing the Sun with the Atacama Large Millimeter/submillimeter Array (ALMA): Fast-Scan Single-Dish Mapping. <i>Solar Physics</i> , 2017 , 292, 1	2.6	45
17	Observing the Sun with the Atacama Large Millimeter/submillimeter Array (ALMA): High-Resolution Interferometric Imaging. <i>Solar Physics</i> , 2017 , 292, 1	2.6	38
16	THE FIRST FOCUSED HARD X-RAY IMAGES OF THE SUN WITH NuSTAR. <i>Astrophysical Journal</i> , 2016 , 826, 20	4-7	33
15	RESOLVING THE FAN-SPINE RECONNECTION GEOMETRY OF A SMALL-SCALE CHROMOSPHERIC JET EVENT WITH THE NEW SOLAR TELESCOPE. <i>Astrophysical Journal Letters</i> , 2016 , 819, L3	7-9	17
14	GLOBAL SAUSAGE OSCILLATION OF SOLAR FLARE LOOPS DETECTED BY THE INTERFACE REGION IMAGING SPECTROGRAPH. <i>Astrophysical Journal Letters</i> , 2016 , 823, L16	7-9	64
13	TEMPORAL EVOLUTION OF CHROMOSPHERIC EVAPORATION: CASE STUDIES OF THE M1.1 FLARE ON 2014 SEPTEMBER 6 AND X1.6 FLARE ON 2014 SEPTEMBER 10. <i>Astrophysical Journal</i> , 2015 , 811, 139	4-7	72
12	Particle acceleration by a solar flare termination shock. <i>Science</i> , 2015 , 350, 1238-42	33.3	80

11	IMAGING AND SPECTROSCOPIC OBSERVATIONS OF MAGNETIC RECONNECTION AND CHROMOSPHERIC EVAPORATION IN A SOLAR FLARE. <i>Astrophysical Journal Letters</i> , 2014 , 797, L14	7.9	98
10	DIRECT EVIDENCE OF AN ERUPTIVE, FILAMENT-HOSTING MAGNETIC FLUX ROPE LEADING TO A FAST SOLAR CORONAL MASS EJECTION. <i>Astrophysical Journal</i> , 2014 , 794, 149	4.7	31
9	TRACING ELECTRON BEAMS IN THE SUN'S CORONA WITH RADIO DYNAMIC IMAGING SPECTROSCOPY. <i>Astrophysical Journal Letters</i> , 2013 , 763, L21	7.9	54
8	THE ROLE OF INVERSE COMPTON SCATTERING IN SOLAR CORONAL HARD X-RAY AND γ -RAY SOURCES. <i>Astrophysical Journal</i> , 2012 , 750, 35	4.7	10
7	SPATIALLY AND SPECTRALLY RESOLVED OBSERVATIONS OF A ZEBRA PATTERN IN A SOLAR DECIMETRIC RADIO BURST. <i>Astrophysical Journal</i> , 2011 , 736, 64	4.7	43
6	Radio fine structures in dm \bar{m} wavelength range associated with magnetic reconnection processes. <i>Advances in Space Research</i> , 2010 , 46, 413-418	2.4	14
5	Spiky Fine Structure of Type III-like Radio Bursts in Absorption. <i>Solar Physics</i> , 2010 , 262, 149-170	2.6	5
4	Short-Lived Absorptive Type III-like Microwave Bursts as a Signature of Fragmented Electron Injections. <i>Astrophysical Journal</i> , 2008 , 689, 1412-1420	4.7	8
3	On the Origin of the Zebra Pattern with Pulsating Superfine Structures on 21 April 2002. <i>Solar Physics</i> , 2007 , 246, 431-443	2.6	19
2	Diagnostics of Radio Fine Structures around 3 GHz with Hinode Data in the Impulsive Phase of an X3.4/4B Flare Event on 2006 December 13. <i>Publication of the Astronomical Society of Japan</i> , 2007 , 59, S815-S821	3.2	25
1	The origin of underdense plasma downflows associated with magnetic reconnection in solar flares. <i>Nature Astronomy</i> ,	12.1	2