

Chun Xia

List of Publications by Year in descending order

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46
papers

1,766
citations

236925

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42
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46
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46
docs citations

46
times ranked

1005
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing the hybrid parallelization of BHAC. <i>Astronomy and Computing</i> , 2022, 38, 100509.	1.7	4
2	MPI-AMRVAC: A parallel, grid-adaptive PDE toolkit. <i>Computers and Mathematics With Applications</i> , 2021, 81, 316-333.	2.7	41
3	Measuring three-dimensional shapes of stable solar prominences using stereoscopic observations from SDO and STEREO. <i>Astronomy and Astrophysics</i> , 2021, 647, A112.	5.1	7
4	Transition region adaptive conduction (TRAC) in multidimensional magnetohydrodynamic simulations. <i>Astronomy and Astrophysics</i> , 2021, 648, A29.	5.1	22
5	Data-constrained Magnetohydrodynamic Simulation of a Long-duration Eruptive Flare. <i>Astrophysical Journal</i> , 2021, 919, 39.	4.5	18
6	A Fully Self-consistent Model for Solar Flares. <i>Astrophysical Journal</i> , 2020, 896, 97.	4.5	28
7	Thermal instabilities: Fragmentation and field misalignment of filament fine structure. <i>Astronomy and Astrophysics</i> , 2020, 636, A112.	5.1	23
8	Extreme-ultraviolet and X-Ray Emission of Turbulent Solar Flare Loops. <i>Astrophysical Journal Letters</i> , 2019, 877, L11.	8.3	15
9	The Magnetic Flux Rope Structure of a Triangulated Solar Filament. <i>Astrophysical Journal Letters</i> , 2019, 884, L1.	8.3	22
10	Repeated Coronal Condensations Caused by Magnetic Reconnection between Solar Coronal Loops. <i>Astrophysical Journal</i> , 2019, 884, 34.	4.5	19
11	Forward Modeling of SDO/AIA and X-Ray Emission from a Simulated Flux Rope Ejection. <i>Astrophysical Journal</i> , 2019, 872, 190.	4.5	24
12	Ideal MHD instabilities for coronal mass ejections: interacting current channels and particle acceleration. <i>Reviews of Modern Plasma Physics</i> , 2019, 3, 1.	4.1	10
13	Solar Magnetic Flux Rope Eruption Simulated by a Data-driven Magnetohydrodynamic Model. <i>Astrophysical Journal Letters</i> , 2019, 870, L21.	8.3	38
14	Three-dimensional MHD Simulations of Solar Prominence Oscillations in a Magnetic Flux Rope. <i>Astrophysical Journal</i> , 2018, 856, 179.	4.5	45
15	MPI-AMRVAC 2.0 for Solar and Astrophysical Applications. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 30.	7.7	136
16	Solar flares and Kelvin-Helmholtz instabilities: A parameter survey. <i>Astronomy and Astrophysics</i> , 2018, 618, A135.	5.1	12
17	Quasi-periodic Fast Propagating Magnetoacoustic Waves during the Magnetic Reconnection Between Solar Coronal Loops. <i>Astrophysical Journal Letters</i> , 2018, 868, L33.	8.3	26
18	A Comprehensive Comparison of Relativistic Particle Integrators. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 21.	7.7	60

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19	Coronal Condensations Caused by Magnetic Reconnection between Solar Coronal Loops. <i>Astrophysical Journal Letters</i> , 2018, 864, L4.	8.3	34
20	Formation and Initiation of Erupting Flux Rope and Embedded Filament Driven by Photospheric Converging Motion. <i>Astrophysical Journal</i> , 2017, 841, 106.	4.5	26
21	Reconnection and particle acceleration in interacting flux ropes – II. 3D effects on test particles in magnetically dominated plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 3465-3482.	4.4	25
22	Coronal rain in magnetic bipolar weak fields. <i>Astronomy and Astrophysics</i> , 2017, 603, A42.	5.1	33
23	INTERNAL DYNAMICS OF A TWIN-LAYER SOLAR PROMINENCE. <i>Astrophysical Journal Letters</i> , 2016, 825, L29.	8.3	20
24	THE ROLE OF KELVIN–HELMHOLTZ INSTABILITY FOR PRODUCING LOOP-TOP HARD X-RAY SOURCES IN SOLAR FLARES. <i>Astrophysical Journal</i> , 2016, 833, 36.	4.5	29
25	MAGNETO-FRICTIONAL MODELING OF CORONAL NONLINEAR FORCE-FREE FIELDS. I. TESTING WITH ANALYTIC SOLUTIONS. <i>Astrophysical Journal</i> , 2016, 828, 82.	4.5	43
26	MAGNETO-FRICTIONAL MODELING OF CORONAL NONLINEAR FORCE-FREE FIELDS. II. APPLICATION TO OBSERVATIONS. <i>Astrophysical Journal</i> , 2016, 828, 83.	4.5	37
27	FORMATION AND PLASMA CIRCULATION OF SOLAR PROMINENCES. <i>Astrophysical Journal</i> , 2016, 823, 22.	4.5	90
28	Synthetic Radio Views of Simulated Solar Flux Ropes. <i>Solar Physics</i> , 2016, 291, 823-845.	2.5	4
29	MODELING OF REFLECTIVE PROPAGATING SLOW-MODE WAVE IN A FLARING LOOP. <i>Astrophysical Journal</i> , 2015, 813, 33.	4.5	31
30	Simulating coronal condensation dynamics in 3D. <i>Advances in Space Research</i> , 2015, 56, 2738-2759.	2.6	24
31	SOLAR PROMINENCES: “DOUBLE, DOUBLE” BOIL AND BUBBLE”, <i>Astrophysical Journal Letters</i> , 2015, 806, L13.	8.3	31
32	CORONAL RAIN IN MAGNETIC ARCADES: REBOUND SHOCKS, LIMIT CYCLES, AND SHEAR FLOWS. <i>Astrophysical Journal</i> , 2015, 807, 142.	4.5	39
33	MPI-AMRVAC FOR SOLAR AND ASTROPHYSICS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 214, 4.	7.7	194
34	THREE-DIMENSIONAL PROMINENCE-HOSTING MAGNETIC CONFIGURATIONS: CREATING A HELICAL MAGNETIC FLUX ROPE. <i>Astrophysical Journal</i> , 2014, 780, 130.	4.5	47
35	THE DYNAMICS OF FUNNEL PROMINENCES. <i>Astrophysical Journal</i> , 2014, 789, 22.	4.5	37
36	SIMULATING THE IN SITU CONDENSATION PROCESS OF SOLAR PROMINENCES. <i>Astrophysical Journal Letters</i> , 2014, 792, L38.	8.3	72

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37	INTERACTING TILT AND KINK INSTABILITIES IN REPELLING CURRENT CHANNELS. <i>Astrophysical Journal</i> , 2014, 795, 77.	4.5	18
38	MULTIDIMENSIONAL MODELING OF CORONAL RAIN DYNAMICS. <i>Astrophysical Journal Letters</i> , 2013, 771, L29.	8.3	58
39	Modeling Magnetic Flux Ropes. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 121-124.	0.0	0
40	Prominence Formation and Destruction. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 468-469.	0.0	0
41	Modeling Prominence Formation in 2.5D. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 410-411.	0.0	0
42	Parametric survey of longitudinal prominence oscillation simulations. <i>Astronomy and Astrophysics</i> , 2013, 554, A124.	5.1	49
43	Observations and simulations of longitudinal oscillations of an active region prominence. <i>Astronomy and Astrophysics</i> , 2012, 542, A52.	5.1	78
44	SIMULATIONS OF PROMINENCE FORMATION IN THE MAGNETIZED SOLAR CORONA BY CHROMOSPHERIC HEATING. <i>Astrophysical Journal Letters</i> , 2012, 748, L26.	8.3	85
45	FORMATION OF SOLAR FILAMENTS BY STEADY AND NONSTEADY CHROMOSPHERIC HEATING. <i>Astrophysical Journal</i> , 2011, 737, 27.	4.5	92
46	Reconnection and particle acceleration in interacting flux ropes I. Magnetohydrodynamics and test particles in 2.5D. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	20