

# Chang Liu

## List of Publications by Year in descending order

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94  
papers

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citations

87723

38  
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138251

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95  
docs citations

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times ranked

1503  
citing authors

#	ARTICLE	IF	CITATIONS
1	STRUCTURE, STABILITY, AND EVOLUTION OF MAGNETIC FLUX ROPES FROM THE PERSPECTIVE OF MAGNETIC TWIST. <i>Astrophysical Journal</i> , 2016, 818, 148.	1.6	218
2	RESPONSE OF THE PHOTOSPHERIC MAGNETIC FIELD TO THE X2.2 FLARE ON 2011 FEBRUARY 15. <i>Astrophysical Journal Letters</i> , 2012, 745, L17.	3.0	140
3	CIRCULAR RIBBON FLARES AND HOMOLOGOUS JETS. <i>Astrophysical Journal</i> , 2012, 760, 101.	1.6	139
4	Rapid Change of $\hat{\nu}$ Spot Structure Associated with Seven Major Flares. <i>Astrophysical Journal</i> , 2005, 622, 722-736.	1.6	136
5	SIGMOID-TO-FLUX-ROPE TRANSITION LEADING TO A LOOP-LIKE CORONAL MASS EJECTION. <i>Astrophysical Journal Letters</i> , 2010, 725, L84-L90.	3.0	121
6	SLOW RISE AND PARTIAL ERUPTION OF A DOUBLE-DECKER FILAMENT. I. OBSERVATIONS AND INTERPRETATION. <i>Astrophysical Journal</i> , 2012, 756, 59.	1.6	116
7	OBSERVATIONAL EVIDENCE OF BACK REACTION ON THE SOLAR SURFACE ASSOCIATED WITH CORONAL MAGNETIC RESTRUCTURING IN SOLAR ERUPTIONS. <i>Astrophysical Journal Letters</i> , 2010, 716, L195-L199.	3.0	113
8	Predicting Solar Flares Using SDO/HMI Vector Magnetic Data Products and the Random Forest Algorithm. <i>Astrophysical Journal</i> , 2017, 843, 104.	1.6	91
9	Predicting Solar Flares Using a Long Short-term Memory Network. <i>Astrophysical Journal</i> , 2019, 877, 121.	1.6	88
10	RAPID CHANGES OF PHOTOSPHERIC MAGNETIC FIELD AFTER TETHER-CUTTING RECONNECTION AND MAGNETIC IMPLOSION. <i>Astrophysical Journal Letters</i> , 2012, 745, L4.	3.0	81
11	High-Resolution Observations of Multiwavelength Emissions during Two X-class White-Light Flares. <i>Astrophysical Journal</i> , 2006, 641, 1210-1216.	1.6	74
12	A RECONNECTING CURRENT SHEET IMAGED IN A SOLAR FLARE. <i>Astrophysical Journal Letters</i> , 2010, 723, L28-L33.	3.0	74
13	High-resolution observations of flare precursors in the low solar atmosphere. <i>Nature Astronomy</i> , 2017, 1, .	4.2	74
14	Unprecedented Fine Structure of a Solar Flare Revealed by the 1.6- $\mu$ m New Solar Telescope. <i>Scientific Reports</i> , 2016, 6, 24319.	1.6	73
15	Rapid Penumbra Decay Associated with an X2.3 Flare in NOAA Active Region 9026. <i>Astrophysical Journal</i> , 2005, 623, 1195-1201.	1.6	72
16	The Eruption from a Sigmoidal Solar Active Region on 2005 May 13. <i>Astrophysical Journal</i> , 2007, 669, 1372-1381.	1.6	72
17	Near-Infrared Observations at 1.56 Microns of the 2003 October 29 X10 White-Light Flare. <i>Astrophysical Journal</i> , 2004, 607, L131-L134.	1.6	70
18	SLOW RISE AND PARTIAL ERUPTION OF A DOUBLE-DECKER FILAMENT. II. A DOUBLE FLUX ROPE MODEL. <i>Astrophysical Journal</i> , 2014, 792, 107.	1.6	70

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19	Witnessing magnetic twist with high-resolution observation from the 1.6-m New Solar Telescope. <i>Nature Communications</i> , 2015, 6, 7008.	5.8	63
20	EVOLUTION OF RELATIVE MAGNETIC HELICITY AND CURRENT HELICITY IN NOAA ACTIVE REGION 11158. <i>Astrophysical Journal Letters</i> , 2012, 752, L9.	3.0	62
21	A STANDARD-TO-BLOWOUT JET. <i>Astrophysical Journal Letters</i> , 2011, 735, L18.	3.0	60
22	THE ROLE OF ERUPTING SIGMOID IN TRIGGERING A FLARE WITH PARALLEL AND LARGE-SCALE QUASI-CIRCULAR RIBBONS. <i>Astrophysical Journal</i> , 2015, 812, 50.	1.6	57
23	Reevaluation of the Magnetic Structure and Evolution Associated with the Bastille Day Flare on 2000 July 14. <i>Astrophysical Journal</i> , 2005, 627, 1031-1039.	1.6	49
24	THE RELATIONSHIP BETWEEN THE SUDDEN CHANGE OF THE LORENTZ FORCE AND THE MAGNITUDE OF ASSOCIATED FLARES. <i>Astrophysical Journal Letters</i> , 2012, 757, L5.	3.0	48
25	EVIDENCE FOR SOLAR TETHER-CUTTING MAGNETIC RECONNECTION FROM CORONAL FIELD EXTRAPOLATIONS. <i>Astrophysical Journal Letters</i> , 2013, 778, L36.	3.0	48
26	A CIRCULAR-RIBBON SOLAR FLARE FOLLOWING AN ASYMMETRIC FILAMENT ERUPTION. <i>Astrophysical Journal Letters</i> , 2015, 812, L19.	3.0	48
27	SUCCESSIVE SOLAR FLARES AND CORONAL MASS EJECTIONS ON 2005 SEPTEMBER 13 FROM NOAA AR 10808. <i>Astrophysical Journal</i> , 2009, 703, 757-768.	1.6	47
28	Hard X-ray and Microwave Observations of Microflares. <i>Astrophysical Journal</i> , 2004, 612, 530-545.	1.6	44
29	STUDY OF TWO SUCCESSIVE THREE-RIBBON SOLAR FLARES ON 2012 JULY 6. <i>Astrophysical Journal Letters</i> , 2014, 781, L23.	3.0	44
30	Statistical Analysis of Torus and Kink Instabilities in Solar Eruptions. <i>Astrophysical Journal</i> , 2018, 864, 138.	1.6	44
31	Multiwavelength Study of Flow Fields in Flaring Super Active Region NOAA 10486. <i>Astrophysical Journal</i> , 2006, 644, 1278-1291.	1.6	44
32	Large-scale Activities Associated with the 2003 October 29 X10 Flare. <i>Astrophysical Journal</i> , 2006, 642, 1205-1215.	1.6	42
33	MOTIONS OF HARD X-RAY SOURCES DURING AN ASYMMETRIC ERUPTION. <i>Astrophysical Journal Letters</i> , 2010, 721, L193-L198.	3.0	42
34	OBSERVATION OF A MORETON WAVE AND WAVE-FILAMENT INTERACTIONS ASSOCIATED WITH THE RENOWNED X9 FLARE ON 1990 MAY 24. <i>Astrophysical Journal</i> , 2013, 773, 166.	1.6	42
35	Flare differentially rotates sunspot on Sun's surface. <i>Nature Communications</i> , 2016, 7, 13104.	5.8	42
36	The Ribbon-like Hard X-Ray Emission in a Sigmoidal Solar Active Region. <i>Astrophysical Journal</i> , 2007, 658, L127-L130.	1.6	41

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37	SUDDEN PHOTOSPHERIC MOTION AND SUNSPOT ROTATION ASSOCIATED WITH THE X2.2 FLARE ON 2011 FEBRUARY 15. <i>Astrophysical Journal Letters</i> , 2014, 782, L31.	3.0	41
38	Strong Transverse Photosphere Magnetic Fields and Twist in Light Bridge Dividing Delta Sunspot of Active Region 12673. <i>Research Notes of the AAS</i> , 2018, 2, 8.	0.3	41
39	A Hard X-Ray Sigmoidal Structure during the Initial Phase of the 2003 October 29 X10 Flare. <i>Astrophysical Journal</i> , 2008, 680, 734-739.	1.6	39
40	Flux rope, hyperbolic flux tube, and late extreme ultraviolet phases in a non-eruptive circular-ribbon flare. <i>Astronomy and Astrophysics</i> , 2017, 604, A76.	2.1	39
41	THREE-DIMENSIONAL MAGNETIC RESTRUCTURING IN TWO HOMOLOGOUS SOLAR FLARES IN THE SEISMICALLY ACTIVE NOAA AR 11283. <i>Astrophysical Journal</i> , 2014, 795, 128.	1.6	38
42	Studies of Microflares in RHESSI Hard X-Ray, Big Bear Solar Observatory H $\alpha$ , and Michelson Doppler Imager Magnetograms. <i>Astrophysical Journal</i> , 2004, 604, 442-448.	1.6	35
43	Flow Field Evolution of a Decaying Sunspot. <i>Astrophysical Journal</i> , 2007, 671, 1013-1021.	1.6	35
44	ULTRA-NARROW NEGATIVE FLARE FRONT OBSERVED IN HELIUM-10830 Å... USING THE 1.6 m NEW SOLAR TELESCOPE. <i>Astrophysical Journal</i> , 2016, 819, 89.	1.6	35
45	HIGH-CADENCE AND HIGH-RESOLUTION H $\alpha$ IMAGING SPECTROSCOPY OF A CIRCULAR FLARE'S REMOTE RIBBON WITH IBIS. <i>Astrophysical Journal</i> , 2013, 769, 112.	1.6	31
46	Witnessing a Large-scale Slipping Magnetic Reconnection along a Dimming Channel during a Solar Flare. <i>Astrophysical Journal Letters</i> , 2017, 842, L18.	3.0	28
47	A Statistical Study of Rapid Sunspot Structure Change Associated with Flares. <i>Research in Astronomy and Astrophysics</i> , 2007, 7, 733-742.	1.1	26
48	Hard X-Ray Intensity Distribution along H $\alpha$ Ribbons. <i>Astrophysical Journal</i> , 2007, 664, L127-L130.	1.6	26
49	ON THE RELATIONSHIP BETWEEN THE CORONAL MAGNETIC DECAY INDEX AND CORONAL MASS EJECTION SPEED. <i>Astrophysical Journal</i> , 2012, 761, 52.	1.6	26
50	Sudden Disappearance of a Small Sunspot Associated with the 2002 February 20 M2.4 Flare. <i>Astrophysical Journal</i> , 2002, 580, L177-L180.	1.6	26
51	CONTRACTING AND ERUPTING COMPONENTS OF SIGMOIDAL ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2012, 757, 150.	1.6	25
52	Structure and evolution of magnetic fields associated with solar eruptions. <i>Research in Astronomy and Astrophysics</i> , 2015, 15, 145-174.	0.7	25
53	RAPID TRANSITION OF UNCOMBED PENUMBRAE TO FACULAE DURING LARGE FLARES. <i>Astrophysical Journal</i> , 2012, 748, 76.	1.6	23
54	Nonequilibrium Flux Rope Formation by Confined Flares Preceding a Solar Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2021, 909, 91.	1.6	23

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55	Successive Flaring during the 2005 September 13 Eruption. <i>Astrophysical Journal</i> , 2007, 671, 973-977.	1.6	22
56	STUDY OF RAPID FORMATION OF A $\delta$ SUNSPOT ASSOCIATED WITH THE 2012 JULY 2 C7.4 FLARE USING HIGH-RESOLUTION OBSERVATIONS OF THE NEW SOLAR TELESCOPE. <i>Astrophysical Journal Letters</i> , 2013, 774, L24.	3.0	20
57	Predicting Coronal Mass Ejections Using SDO/HMI Vector Magnetic Data Products and Recurrent Neural Networks. <i>Astrophysical Journal</i> , 2020, 890, 12.	1.6	20
58	RECONNECTION ELECTRIC FIELD AND HARDNESS OF X-RAY EMISSION OF SOLAR FLARES. <i>Astrophysical Journal</i> , 2009, 696, L27-L31.	1.6	19
59	Inferring Vector Magnetic Fields from Stokes Profiles of GST/NIRIS Using a Convolutional Neural Network. <i>Astrophysical Journal</i> , 2020, 894, 70.	1.6	19
60	The X10 Flare on 29 October 2003: Was It Triggered by Magnetic Reconnection between Counter-Helical Fluxes?. <i>Solar Physics</i> , 2007, 240, 253-262.	1.0	18
61	GRADUAL INFLATION OF ACTIVE-REGION CORONAL ARCADES BUILDING UP TO CORONAL MASS EJECTIONS. <i>Astrophysical Journal</i> , 2010, 723, 229-240.	1.6	18
62	Extending Counter-streaming Motion from an Active Region Filament to a Sunspot Light Bridge. <i>Astrophysical Journal Letters</i> , 2018, 852, L18.	3.0	18
63	An Eruptive Circular-ribbon Flare with Extended Remote Brightenings. <i>Astrophysical Journal</i> , 2020, 899, 34.	1.6	18
64	Evolution of Photospheric Vector Magnetic Field Associated with Moving Flare Ribbons as Seen by GST. <i>Astrophysical Journal</i> , 2018, 869, 21.	1.6	16
65	He I D3 OBSERVATIONS OF THE 1984 MAY 22 M6.3 SOLAR FLARE. <i>Astrophysical Journal</i> , 2013, 774, 60.	1.6	15
66	Comparison between the eruptive X2.2 flare on 2011 February 15 and confined X3.1 flare on 2014 October 24. <i>Research in Astronomy and Astrophysics</i> , 2015, 15, 1537-1546.	0.7	15
67	Evolution of Photospheric Flow and Magnetic Fields Associated with the 2015 June 22 M6.5 Flare. <i>Astrophysical Journal</i> , 2018, 853, 143.	1.6	15
68	The Spatial Distribution of the Hard X-Ray Spectral Index and the Local Magnetic Reconnection Rate. <i>Astrophysical Journal</i> , 2008, 672, L69-L72.	1.6	14
69	Transient rotation of photospheric vector magnetic fields associated with a solar flare. <i>Nature Communications</i> , 2018, 9, 46.	5.8	14
70	MULTI-WAVELENGTH STUDY OF TRANSITION REGION PENUMBRAL SUBARCSECOND BRIGHT DOTS USING IRIS AND NST. <i>Astrophysical Journal</i> , 2016, 829, 103.	1.6	13
71	SOLAR MULTIPLE ERUPTIONS FROM A CONFINED MAGNETIC STRUCTURE. <i>Astrophysical Journal Letters</i> , 2016, 829, L1.	3.0	11
72	Tracing $H\alpha$ Fibrils through Bayesian Deep Learning. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 20.	3.0	11

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73	RAPID ENHANCEMENT OF SHEARED EVERSHED FLOW ALONG THE NEUTRAL LINE ASSOCIATED WITH AN X6.5 FLARE OBSERVED BY <i>Hinode</i>. <i>Astrophysical Journal Letters</i> , 2011, 733, L14.	3.0	10
74	CHROMOSPHERIC RAPID BLUESHIFTED EXCURSIONS OBSERVED WITH IBIS AND THEIR ASSOCIATION WITH PHOTOSPHERIC MAGNETIC FIELD EVOLUTION. <i>Astrophysical Journal</i> , 2015, 799, 219.	1.6	10
75	The Eruption of Outer Spine-like Loops Leading to a Double-stage Circular-ribbon Flare. <i>Astrophysical Journal</i> , 2019, 883, 47.	1.6	10
76	Signatures of Magnetic Flux Ropes in the Low Solar Atmosphere Observed in High Resolution. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	10
77	DeepSun: machine-learning-as-a-service for solar flare prediction. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 160.	0.7	10
78	EVOLUTION OF A MAGNETIC FLUX ROPE AND ITS OVERLYING ARCADE BASED ON NONLINEAR FORCE-FREE FIELD EXTRAPOLATIONS. <i>Astrophysical Journal Letters</i> , 2014, 784, L13.	3.0	8
79	Heating and Eruption of a Solar Circular-ribbon Flare. <i>Astrophysical Journal</i> , 2020, 893, 158.	1.6	8
80	Magnetic Structure of a Composite Solar Microwave Burst. <i>Astrophysical Journal</i> , 2018, 856, 70.	1.6	7
81	Identifying and Tracking Solar Magnetic Flux Elements with Deep Learning. <i>Astrophysical Journal, Supplement Series</i> , 2020, 250, 5.	3.0	7
82	Observing the reconnection region in a transequatorial loop system. <i>Research in Astronomy and Astrophysics</i> , 2011, 11, 1209-1228.	0.7	6
83	SOLAR ERUPTION AND LOCAL MAGNETIC PARAMETERS. <i>Astrophysical Journal Letters</i> , 2016, 831, L18.	3.0	6
84	Thermal and Nonthermal Emissions of a Composite Flare Derived from NoRH and SDO Observations. <i>Astrophysical Journal</i> , 2017, 850, 124.	1.6	6
85	High-resolution Observations of Dynamics of Superpenumbral H $\pm$ Fibrils. <i>Astrophysical Journal</i> , 2019, 880, 143.	1.6	6
86	High-resolution Observation of Moving Magnetic Features. <i>Astrophysical Journal</i> , 2019, 876, 129.	1.6	6
87	High-resolution Observations of Small-scale Flux Emergence by GST. <i>Astrophysical Journal</i> , 2020, 900, 84.	1.6	6
88	Irreversible rapid changes of magnetic field associated with the 2012 October 23 circular near-limb X1.8 Flare. <i>Research in Astronomy and Astrophysics</i> , 2016, 16, 010.	0.7	5
89	A High-resolution Study of Magnetic Field Evolution and Spicular Activity around the Boundary of a Coronal Hole. <i>Astrophysical Journal</i> , 2022, 924, 137.	1.6	4
90	Understanding the Initiation of the M2.4 Flare on 2017 July 14. <i>Astrophysical Journal</i> , 2021, 922, 108.	1.6	3

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91	Formation of Large-scale Coronal Loops Interconnecting Two Active Regions through Gradual Magnetic Reconnection and an Associated Heating Process. <i>Astrophysical Journal</i> , 2018, 860, 40.	1.6	2
92	Rapid changes of sunspot structure associated with solar eruptions. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 15-20.	0.0	0
93	Study of sunspot motion and flow fields associated with solar flares. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 412-416.	0.0	0
94	Development of technique to detect and classify small-scale magnetic flux cancellation and rapid blue-shifted excursions. <i>Research in Astronomy and Astrophysics</i> , 2015, 15, 1012-1026.	0.7	0