

# Yang Liu

## List of Publications by Year in descending order

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32  
papers

1,997  
citations

361413

20  
h-index

414414

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g-index

34  
all docs

34  
docs citations

34  
times ranked

1293  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Hemispheric Bias Seen in Vector Magnetic Field Data. <i>Solar Physics</i> , 2022, 297, 1.	2.5	4
2	SynthIA: A Synthetic Inversion Approximation for the Stokes Vector Fusing SDO and Hinode into a Virtual Observatory. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 24.	7.7	5
3	Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification. <i>Astrophysical Journal</i> , 2021, 911, 130.	4.5	5
4	Are the Magnetic Fields Radial in the Solar Polar Region?. <i>Research Notes of the AAS</i> , 2021, 5, 134.	0.7	4
5	Magnetic Helicity Estimations in Models and Observations of the Solar Magnetic Field. IV. Application to Solar Observations. <i>Astrophysical Journal</i> , 2021, 922, 41.	4.5	11
6	Improvement of the Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Inversion Code. <i>Astrophysical Journal</i> , 2021, 923, 84.	4.5	7
7	Predicting Solar Flares with Machine Learning: Investigating Solar Cycle Dependence. <i>Astrophysical Journal</i> , 2020, 895, 3.	4.5	42
8	The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution. <i>Astrophysical Journal, Supplement Series</i> , 2020, 250, 28.	7.7	22
9	Evolution of Magnetic Helicity in Solar Cycle 24. <i>Astrophysical Journal Letters</i> , 2019, 877, L36.	8.3	21
10	Parameters Derived from the SDO/HMI Vector Magnetic Field Data: Potential to Improve Machine-learning-based Solar Flare Prediction Models. <i>Astrophysical Journal</i> , 2019, 884, 175.	4.5	17
11	A Machine-learning Data Set Prepared from the NASA Solar Dynamics Observatory Mission. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 7.	7.7	46
12	An Observationally Constrained Model of a Flux Rope that Formed in the Solar Corona. <i>Astrophysical Journal Letters</i> , 2018, 855, L16.	8.3	46
13	Roles of Photospheric Motions and Flux Emergence in the Major Solar Eruption on 2017 September 6. <i>Astrophysical Journal</i> , 2018, 869, 90.	4.5	17
14	Investigating the Magnetic Imprints of Major Solar Eruptions with SDO/HMI High-cadence Vector Magnetograms. <i>Astrophysical Journal</i> , 2017, 839, 67.	4.5	56
15	Magnetic Helicity Estimations in Models and Observations of the Solar Magnetic Field. III. Twist Number Method. <i>Astrophysical Journal</i> , 2017, 840, 40.	4.5	37
16	Electric-current Neutralization, Magnetic Shear, and Eruptive Activity in Solar Active Regions. <i>Astrophysical Journal Letters</i> , 2017, 846, L6.	8.3	35
17	Vector Magnetic Field Synoptic Charts from the Helioseismic and Magnetic Imager (HMI). <i>Solar Physics</i> , 2017, 292, 1.	2.5	26
18	A data-driven MHD model of the global solar corona within Multi-Scale Fluid-Kinetic Simulation Suite (MS-FLUKSS). <i>Journal of Physics: Conference Series</i> , 2017, 837, 012015.	0.4	14

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19	PHOTOSPHERIC ELECTRIC FIELDS AND ENERGY FLUXES IN THE ERUPTIVE ACTIVE REGION NOAA 11158. <i>Astrophysical Journal</i> , 2015, 811, 16.	4.5	47
20	WHY IS THE GREAT SOLAR ACTIVE REGION 12192 FLARE-RICH BUT CME-POOR?. <i>Astrophysical Journal Letters</i> , 2015, 804, L28.	8.3	174
21	Sunspot Rotation and the M-Class Flare in Solar Active Region NOAA 11158. <i>Solar Physics</i> , 2015, 290, 2199-2209.	2.5	11
22	THE MAGNETIC FIELD OF ACTIVE REGION 11158 DURING THE 2011 FEBRUARY 12-17 FLARES: DIFFERENCES BETWEEN PHOTOSPHERIC EXTRAPOLATION AND CORONAL FORWARD-FITTING METHODS. <i>Astrophysical Journal</i> , 2014, 785, 34.	4.5	38
23	The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Overview and Performance. <i>Solar Physics</i> , 2014, 289, 3483-3530.	2.5	437
24	Horizontal Flows in the Photosphere and Subphotosphere of Two Active Regions. <i>Solar Physics</i> , 2013, 287, 279-291.	2.5	41
25	A Note on Computation of Relative Magnetic-Helicity Flux Across the Photosphere. <i>Solar Physics</i> , 2013, 283, 283-294.	2.5	12
26	INTERPRETING ERUPTIVE BEHAVIOR IN NOAA AR 11158 VIA THE REGION'S MAGNETIC ENERGY AND RELATIVE-HELICITY BUDGETS. <i>Astrophysical Journal</i> , 2013, 772, 115.	4.5	68
27	Self-cancellation of solar ephemeral regions observed by SDO. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 159-160.	0.0	0
28	A NON-RADIAL ERUPTION IN A QUADRUPOLEAR MAGNETIC CONFIGURATION WITH A CORONAL NULL. <i>Astrophysical Journal</i> , 2012, 757, 149.	4.5	60
29	EVOLUTION OF MAGNETIC FIELD AND ENERGY IN A MAJOR ERUPTIVE ACTIVE REGION BASED ON SDO/HMI OBSERVATION. <i>Astrophysical Journal</i> , 2012, 748, 77.	4.5	315
30	The Global Solar Magnetic Field Through a Full Sunspot Cycle: Observations and Model Results. <i>Solar Physics</i> , 2008, 252, 19-31.	2.5	63
31	Nonlinear Force-Free Modeling of Coronal Magnetic Fields Part I: A Quantitative Comparison of Methods. <i>Solar Physics</i> , 2006, 235, 161-190.	2.5	286
32	Correction of Offset in MDI/SOHO Magnetograms. <i>Solar Physics</i> , 2004, 219, 39-53.	2.5	29