

D Shaun Bloomfield

List of Publications by Year in descending order

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72
papers

2,592
citations

218677

26
h-index

189892

50
g-index

73
all docs

73
docs citations

73
times ranked

1777
citing authors

#	ARTICLE	IF	CITATIONS
1	The high-energy Sun - probing the origins of particle acceleration on our nearest star. <i>Experimental Astronomy</i> , 2022, 54, 335-360.	3.7	3
2	The flare likelihood and region eruption forecasting (FLARECAST) project: flare forecasting in the big data & machine learning era. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 39.	3.3	24
3	Validation of Global EUV Wave MHD Simulations and Observational Techniques. <i>Astrophysical Journal</i> , 2021, 911, 118.	4.5	23
4	Ensemble forecasting of major solar flares: methods for combining models. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 38.	3.3	10
5	A Comparison of Flare Forecasting Methods. IV. Evaluating Consecutive-day Forecasting Patterns. <i>Astrophysical Journal</i> , 2020, 890, 124.	4.5	33
6	2D and 3D Analysis of a Torus-unstable Quiet-Sun Prominence Eruption. <i>Astrophysical Journal</i> , 2020, 897, 35.	4.5	5
7	A Comparison of Flare Forecasting Methods. III. Systematic Behaviors of Operational Solar Flare Forecasting Systems. <i>Astrophysical Journal</i> , 2019, 881, 101.	4.5	42
8	A Comparison of Flare Forecasting Methods. II. Benchmarks, Metrics, and Performance Results for Operational Solar Flare Forecasting Systems. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 36.	7.7	75
9	Which Photospheric Characteristics Are Most Relevant to Active-Region Coronal Mass Ejections?. <i>Solar Physics</i> , 2019, 294, 1.	2.5	19
10	Solar Flare Forecasting from Magnetic Feature Properties Generated by the Solar Monitor Active Region Tracker. <i>Solar Physics</i> , 2019, 294, 1.	2.5	19
11	Feature Ranking of Active Region Source Properties in Solar Flare Forecasting and the Uncompromised Stochasticity of Flare Occurrence. <i>Astrophysical Journal</i> , 2019, 883, 150.	4.5	43
12	Forecasting Solar Flares Using Magnetogram-based Predictors and Machine Learning. <i>Solar Physics</i> , 2018, 293, 1.	2.5	107
13	Active Region Photospheric Magnetic Properties Derived from Line-of-Sight and Radial Fields. <i>Solar Physics</i> , 2018, 293, 1.	2.5	11
14	Flare forecasting using the evolution of McIntosh sunspot classifications. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A34.	3.3	26
15	Photospheric Shear Flows in Solar Active Regions and Their Relation to Flare Occurrence. <i>Solar Physics</i> , 2018, 293, 1.	2.5	15
16	Understanding the Physical Nature of Coronal "EIT Waves". <i>Solar Physics</i> , 2017, 292, 7.	2.5	67
17	A COMPARISON OF FLARE FORECASTING METHODS. I. RESULTS FROM THE "ALL-CLEAR" WORKSHOP. <i>Astrophysical Journal</i> , 2016, 829, 89.	4.5	162
18	Performance of Major Flare Watches from the Max Millennium Program (2001-2010). <i>Solar Physics</i> , 2016, 291, 411-427.	2.5	11

#	ARTICLE	IF	CITATIONS
19	Flaring Rates and the Evolution of Sunspot Group McIntosh Classifications. <i>Solar Physics</i> , 2016, 291, 1711-1738.	2.5	33
20	Automatic Detection of Magnetic δ in Sunspot Groups. <i>Solar Physics</i> , 2016, 291, 41-53.	2.5	7
21	Conditions for electron-cyclotron maser emission in the solar corona. <i>Astronomy and Astrophysics</i> , 2016, 589, L8.	5.1	23
22	CorPITA: An Automated Algorithm for the Identification and Analysis of Coronal α EIT Waves. <i>Solar Physics</i> , 2014, 289, 3279-3295.	2.5	25
23	The formation heights of coronal shocks from 2D density and Alfvén speed maps. <i>Astronomy and Astrophysics</i> , 2014, 564, A47.	5.1	83
24	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing. <i>Solar Physics</i> , 2013, 286, 43-65.	2.5	120
25	Temperature Response of the 171 Å... Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. <i>Solar Physics</i> , 2013, 286, 111-124.	2.5	8
26	The Projects for Onboard Autonomy (PROBA2) Science Centre: Sun Watcher Using APS Detectors and Image Processing (SWAP) and Large-Yield Radiometer (LYRA) Science Operations and Data Products. <i>Solar Physics</i> , 2013, 286, 93-110.	2.5	10
27	Solar Flare Prediction Using Advanced Feature Extraction, Machine Learning, and Feature Selection. <i>Solar Physics</i> , 2013, 283, 157-175.	2.5	132
28	Oscillatory Behavior in the Corona. <i>Solar Physics</i> , 2013, 286, 405-415.	2.5	1
29	THE BURSTY NATURE OF SOLAR FLARE X-RAY EMISSION. II. THE NEUPERT EFFECT. <i>Astrophysical Journal</i> , 2013, 776, 66.	4.5	6
30	Quasiperiodic acceleration of electrons by a plasmoid-driven shock in the solar atmosphere. <i>Nature Physics</i> , 2013, 9, 811-816.	16.7	62
31	Evidence for partial Taylor relaxation from changes in magnetic geometry and energy during a solar flare. <i>Astronomy and Astrophysics</i> , 2013, 550, A119.	5.1	7
32	Improved methods for determining the kinematics of coronal mass ejections and coronal waves. <i>Astronomy and Astrophysics</i> , 2013, 557, A96.	5.1	31
33	Temperature Response of the 171 Å... Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. , 2013, , 111-124.		0
34	TOWARD RELIABLE BENCHMARKING OF SOLAR FLARE FORECASTING METHODS. <i>Astrophysical Journal Letters</i> , 2012, 747, L41.	8.3	190
35	Studying Sun-Planet Connections Using the Heliophysics Integrated Observatory (HELIO). <i>Solar Physics</i> , 2012, 280, 603-621.	2.5	9
36	The spectrometer telescope for imaging x-rays on board the Solar Orbiter mission. <i>Proceedings of SPIE</i> , 2012, , .	0.8	17

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37	The Evolution of Sunspot Magnetic Fields Associated with a Solar Flare. <i>Solar Physics</i> , 2012, 277, 45-57.	2.5	9
38	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing. , 2012, , 43-65.		1
39	Deceleration and dispersion of large-scale coronal bright fronts. <i>Astronomy and Astrophysics</i> , 2011, 531, A42.	5.1	44
40	SHORT-TERM EVOLUTION OF CORONAL HOLE BOUNDARIES. <i>Astrophysical Journal Letters</i> , 2011, 731, L26.	8.3	20
41	Solar magnetic feature detection and tracking for space weather monitoring. <i>Advances in Space Research</i> , 2011, 47, 2105-2117.	2.6	59
42	Automated Solar Feature Detection for Space Weather Applications. , 2011, , 207-225.		9
43	The Kinematics of a Globally Propagating Disturbance in the Solar Corona. <i>Astrophysical Journal</i> , 2008, 680, L81-L84.	4.5	136
44	Detection of MHD waves in the solar chromosphere. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
45	The Nature of Running Penumbra Waves Revealed. <i>Astrophysical Journal</i> , 2007, 671, 1005-1012.	4.5	79
46	The nature of running penumbral waves revealed. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 55-58.	0.0	0
47	High frequency oscillations in the solar chromosphere and their connection with heating. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 312-315.	0.0	1
48	Twisting flux tubes as a cause of micro-flaring activity. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 360-363.	0.0	0
49	High-frequency oscillations in a solar active region observed with the RAPID DUAL IMAGER. <i>Astronomy and Astrophysics</i> , 2007, 473, 943-950.	5.1	30
50	Modified p-modes in penumbral filaments?. <i>Astronomy and Astrophysics</i> , 2007, 469, 1155-1161.	5.1	10
51	Twisting flux tubes as a cause of micro-flaring activity. <i>Astronomy and Astrophysics</i> , 2007, 476, 971-977.	5.1	17
52	A Comparative Study of Flaring Loops in Active Stars. <i>Astrophysical Journal, Supplement Series</i> , 2006, 164, 173-201.	7.7	53
53	Soft X-ray Emission Lines of Fexvii Solar Flare Observations and the Chandra Spectrum of Capella. <i>Astrophysical Journal</i> , 2006, 645, 597-604.	4.5	13
54	The Influence of Magnetic Field on Oscillations in the Solar Chromosphere. <i>Astrophysical Journal</i> , 2006, 652, 812-819.	4.5	26

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55	RHESSI and SOHO CDS Observations of Explosive Chromospheric Evaporation. <i>Astrophysical Journal</i> , 2006, 638, L117-L120.	4.5	114
56	Traveling Waves In Network Bright Points. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
57	An investigation of Fe ^{xv} emission lines in solar flare spectra. <i>Astronomy and Astrophysics</i> , 2006, 449, 1203-1208.	5.1	11
58	Opacity in the upper atmospheres of active stars. <i>Astronomy and Astrophysics</i> , 2006, 454, 889-894.	5.1	14
59	The periodic variations of a white-light flare observed with ULTRACAM. <i>Astronomy and Astrophysics</i> , 2006, 456, 323-327.	5.1	51
60	Observations of H [±] Intensity Oscillations in a Flare Ribbon. <i>Astrophysical Journal</i> , 2005, 620, 1101-1106.	4.5	22
61	Fe ^{xv} Emission Lines in a High-Resolution Extreme-Ultraviolet Active Region Spectrum Obtained by the Solar Extreme Ultraviolet Research Telescope and Spectrograph. <i>Astrophysical Journal</i> , 2005, 624, 428-435.	4.5	13
62	Emission lines of Fe ^{xv} in spectra obtained with the Solar Extreme-Ultraviolet Research Telescope and Spectrograph. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 356, 1592-1598.	4.4	8
63	Plasma diagnostics of active-region evolution and implications for coronal heating. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 259-267.	4.4	15
64	Soft X-ray emission lines of Fe XV in spectra of the Sun and Capella. , 2005, , .		0
65	Wavelet Phase Coherence Analysis: Application to a Quiet-Sun Magnetic Element. <i>Astrophysical Journal</i> , 2004, 617, 623-632.	4.5	145
66	Propagating Waves and Magnetohydrodynamic Mode Coupling in the Quiet-Sun Network. <i>Astrophysical Journal</i> , 2004, 604, 936-943.	4.5	20
67	A Detailed Study of Opacity in the Upper Atmosphere of Proxima Centauri. <i>Astrophysical Journal</i> , 2004, 612, 1140-1146.	4.5	13
68	Ultraviolet Oscillations in the Chromosphere of the Quiet Sun. <i>Astrophysical Journal</i> , 2004, 602, 436-445.	4.5	39
69	White-light oscillations during a flare on II Peg. <i>Astronomy and Astrophysics</i> , 2003, 403, 1101-1104.	5.1	78
70	Observational Evidence for Mode Coupling in the Chromospheric Network. <i>Astrophysical Journal</i> , 2003, 587, 806-817.	4.5	63
71	Opacity in the upper atmosphere of AU Mic. <i>Astronomy and Astrophysics</i> , 2002, 390, 219-224.	5.1	20
72	Automated Solar Feature Detection for Space Weather Applications. , 0, , 979-997.		0