D Shaun Bloomfield

List of Publications by Year
in descending order

72	2,592	218677	189892
papers	citations	26 h-index	50 g-index

73	73	73	1777
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	TOWARD RELIABLE BENCHMARKING OF SOLAR FLARE FORECASTING METHODS. Astrophysical Journal Letters, 2012, 747, L41.	8.3	190
2	A COMPARISON OF FLARE FORECASTING METHODS. I. RESULTS FROM THE â€œALL-CLEARâ€•WORKSHOP. Astrophysical Journal, 2016, 829, 89.	4.5	162
3	Wavelet Phase Coherence Analysis: Application to a Quietâ€Sun Magnetic Element. Astrophysical Journal, 2004, 617, 623-632.	4.5	145
4	The Kinematics of a Globally Propagating Disturbance in the Solar Corona. Astrophysical Journal, 2008, 680, L81-L84.	4.5	136
5	Solar Flare Prediction Using Advanced Feature Extraction, Machine Learning, and Feature Selection. Solar Physics, 2013, 283, 157-175.	2.5	132
6	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing. Solar Physics, 2013, 286, 43-65.	2.5	120
7	RHESSI and SOHO CDS Observations of Explosive Chromospheric Evaporation. Astrophysical Journal, 2006, 638, L117-L120.	4.5	114
8	Forecasting Solar Flares Using Magnetogram-based Predictors and Machine Learning. Solar Physics, 2018, 293, 1.	2.5	107
9	The formation heights of coronal shocks from 2D density and AlfvÃ©n speed maps. Astronomy and Astrophysics, 2014, 564, A47.	5.1	83
10	The Nature of Running Penumbral Waves Revealed. Astrophysical Journal, 2007, 671, 1005-1012.	4.5	79
11	White-light oscillations during a flare on IIÂPeg. Astronomy and Astrophysics, 2003, 403, 1101-1104.	5.1	78
12	A Comparison of Flare Forecasting Methods. II. Benchmarks, Metrics, and Performance Results for Operational Solar Flare Forecasting Systems. Astrophysical Journal, Supplement Series, 2019, 243, 36.	7.7	75
13	Understanding the Physical Nature of Coronal â€œEIT Wavesâ€• Solar Physics, 2017, 292, 7.	2.5	67
14	Observational Evidence for Mode Coupling in the Chromospheric Network. Astrophysical Journal, 2003, 587, 806-817.	4.5	63
15	Quasiperiodic acceleration of electrons by a plasmoid-driven shock in the solar atmosphere. Nature Physics, 2013, 9, 811-816.	16.7	62
16	Solar magnetic feature detection and tracking for space weather monitoring. Advances in Space Research, 2011, 47, 2105-2117.	2.6	59
17	A Comparative Study of Flaring Loops in Active Stars. Astrophysical Journal, Supplement Series, 2006, 164, 173-201.	7.7	53
18	The periodic variations of a white-light flare observed with ULTRACAM. Astronomy and Astrophysics, 2006, 456, 323-327.	5.1	51

#	Article	IF	Citations
19	Deceleration and dispersion of large-scale coronal bright fronts. Astronomy and Astrophysics, 2011, 531, A42.	5.1	44
20	Feature Ranking of Active Region Source Properties in Solar Flare Forecasting and the Uncompromised Stochasticity of Flare Occurrence. Astrophysical Journal, 2019, 883, 150.	4.5	43
21	A Comparison of Flare Forecasting Methods. III. Systematic Behaviors of Operational Solar Flare Forecasting Systems. Astrophysical Journal, 2019, 881, 101.	4.5	42
22	Ultraviolet Oscillations in the Chromosphere of the Quiet Sun. Astrophysical Journal, 2004, 602, 436-445.	4.5	39
23	Flaring Rates and the Evolution of Sunspot Group McIntosh Classifications. Solar Physics, 2016, 291, 1711-1738.	2.5	33
24	A Comparison of Flare Forecasting Methods. IV. Evaluating Consecutive-day Forecasting Patterns. Astrophysical Journal, 2020, 890, 124.	4.5	33
25	Improved methods for determining the kinematics of coronal mass ejections and coronal waves. Astronomy and Astrophysics, 2013, 557, A96.	5.1	31
26	High-frequency oscillations in a solar active region observed with the RAPID DUAL IMAGER. Astronomy and Astrophysics, 2007, 473, 943-950.	5.1	30
27	The Influence of Magnetic Field on Oscillations in the Solar Chromosphere. Astrophysical Journal, 2006, 652, 812-819.	4.5	26
28	Flare forecasting using the evolution of McIntosh sunspot classifications. Journal of Space Weather and Space Climate, 2018, 8, A34.	3.3	26
29	CorPITA: An Automated Algorithm for the Identification and Analysis of Coronal â€œEIT Wavesâ€• Solar Physics, 2014, 289, 3279-3295.	2.5	25
30	The flare likelihood and region eruption forecasting (FLARECAST) project: flare forecasting in the big data & machine learning era. Journal of Space Weather and Space Climate, 2021, 11, 39.	3.3	24
31	Validation of Global EUV Wave MHD Simulations and Observational Techniques. Astrophysical Journal, 2021, 911, 118.	4.5	23
32	Conditions for electron-cyclotron maser emission in the solar corona. Astronomy and Astrophysics, 2016, 589, L8.	5.1	23
33	Observations of HÎ± Intensity Oscillations in a Flare Ribbon. Astrophysical Journal, 2005, 620, 1101-1106.	4.5	22
34	Propagating Waves and Magnetohydrodynamic Mode Coupling in the Quietâ€Sun Network. Astrophysical Journal, 2004, 604, 936-943.	4.5	20
35	SHORT-TERM EVOLUTION OF CORONAL HOLE BOUNDARIES. Astrophysical Journal Letters, 2011, 731, L26.	8.3	20
36	Opacity in the upper atmosphere of AU Mic. Astronomy and Astrophysics, 2002, 390, 219-224.	5.1	20

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37	Which Photospheric Characteristics Are Most Relevant to Active-Region Coronal Mass Ejections?. Solar Physics, 2019, 294, 1.	2.5	19
38	Solar Flare Forecasting from Magnetic Feature Properties Generated by the Solar Monitor Active Region Tracker. Solar Physics, 2019, 294, 1.	2.5	19
39	The spectrometer telescope for imaging x-rays on board the Solar Orbiter mission. Proceedings of SPIE, 2012, , .	0.8	17
40	Twisting flux tubes as a cause of micro-flaring activity. Astronomy and Astrophysics, 2007, 476, 971-977.	5.1	17
41	Plasma diagnostics of active-region evolution and implications for coronal heating. Monthly Notices of the Royal Astronomical Society, 2005, 363, 259-267.	4.4	15
42	Photospheric Shear Flows in Solar Active Regions and Their Relation to Flare Occurrence. Solar Physics, 2018, 293, 1.	2.5	15
43	Opacity in the upper atmospheres of active stars. Astronomy and Astrophysics, 2006, 454, 889-894.	5.1	14
44	A Detailed Study of Opacity in the Upper Atmosphere of Proxima Centauri. Astrophysical Journal, 2004, 612, 1140-1146.	4.5	13
45	FexiEmission Lines in a Highâ€Resolution Extremeâ€Ultraviolet Active Region Spectrum Obtained by the Solar Extreme Ultraviolet Research Telescope and Spectrograph. Astrophysical Journal, 2005, 624, 428-435.	4.5	13
46	Soft Xâ€Ray Emission Lines of Fexvin Solar Flare Observations and theChandraSpectrum of Capella. Astrophysical Journal, 2006, 645, 597-604.	4.5	13
47	Performance of Major Flare Watches from the Max Millennium Program (2001â€‰â€“â€‰2010). Solar Physics, 2016, 291, 411-427.	2.5	11
48	Active Region Photospheric Magnetic Properties Derived from Line-of-Sight and Radial Fields. Solar Physics, 2018, 293, 1.	2.5	11
49	An investigation of Feâ€‰XV emission lines in solar flare spectra. Astronomy and Astrophysics, 2006, 449, 1203-1208.	5.1	11
50	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. Solar Physics, 2013, 286, 93-110.	2.5	10
51	Ensemble forecasting of major solar flares: methods for combining models. Journal of Space Weather and Space Climate, 2020, 10, 38.	3.3	10
52	Modified p-modes in penumbral filaments?. Astronomy and Astrophysics, 2007, 469, 1155-1161.	5.1	10
53	Studying Sunâ€“Planet Connections Using the Heliophysics Integrated Observatory (HELIO). Solar Physics, 2012, 280, 603-621.	2.5	9
54	The Evolution of Sunspot Magnetic Fields Associated with a Solar Flare. Solar Physics, 2012, 277, 45-57.	2.5	9

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55	Automated Solar Feature Detection for Space Weather Applications. , 2011, , 207-225.		9
56	Emission lines of Feâ€ƒxv in spectra obtained with the Solar Extreme-Ultraviolet Research Telescope and Spectrograph. Monthly Notices of the Royal Astronomical Society, 2005, 356, 1592-1598.	4.4	8
57	Temperature Response of the 171 Ã... Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. Solar Physics, 2013, 286, 111-124.	2.5	8
58	Evidence for partial Taylor relaxation from changes in magnetic geometry and energy during a solar flare. Astronomy and Astrophysics, 2013, 550, A119.	5.1	7
59	Automatic Detection of Magnetic Î´ $delta$ in Sunspot Groups. Solar Physics, 2016, 291, 41-53.	2.5	7
60	THE BURSTY NATURE OF SOLAR FLARE X-RAY EMISSION. II. THE NEUPERT EFFECT. Astrophysical Journal, 2013, 776, 66.	4.5	6
61	2D and 3D Analysis of a Torus-unstable Quiet-Sun Prominence Eruption. Astrophysical Journal, 2020, 897, 35.	4.5	5
62	The high-energy Sun - probing the origins of particle acceleration on our nearest star. Experimental Astronomy, 2022, 54, 335-360.	3.7	3
63	High frequency oscillations in the solar chromosphere and their connection with heating. Proceedings of the International Astronomical Union, 2007, 3, 312-315.	0.0	1
64	Oscillatory Behavior in the Corona. Solar Physics, 2013, 286, 405-415.	2.5	1
65	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing. , 2012, , 43-65.		1
66	Soft X-ray emission lines of Fe XV in spectra of the Sun and Capella. , 2005, , .		0
67	Traveling Waves In Network Bright Points. AIP Conference Proceedings, 2006, , .	0.4	0
68	Detection of MHD waves in the solar chromosphere. AIP Conference Proceedings, 2007, , .	0.4	0
69	The nature of running penumbral waves revealed. Proceedings of the International Astronomical Union, 2007, 3, 55-58.	0.0	0
70	Twisting flux tubes as a cause of micro-flaring activity. Proceedings of the International Astronomical Union, 2007, 3, 360-363.	0.0	0
71	Temperature Response of the 171 Ã... Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. , 2013, , 111-124.		0
72	Automated Solar Feature Detection for Space Weather Applications. , 0, , 979-997.		0