

Sarah A Matthews

List of Publications by Year in descending order

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80
papers

1,273
citations

331670

21
h-index

414414

32
g-index

80
all docs

80
docs citations

80
times ranked

1169
citing authors

#	ARTICLE	IF	CITATIONS
1	The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?. <i>Solar Physics</i> , 2016, 291, 1761-1782.	2.5	69
2	A catalogue of white-light flares observed by Yohkoh. <i>Astronomy and Astrophysics</i> , 2003, 409, 1107-1125.	5.1	69
3	Nonthermal Velocity Evolution in the Precursor Phase of a Solar Flare. <i>Astrophysical Journal</i> , 2001, 549, L245-L248.	4.5	58
4	2011 FEBRUARY 15: SUNQUAKES PRODUCED BY FLUX ROPE ERUPTION. <i>Astrophysical Journal Letters</i> , 2011, 741, L35.	8.3	53
5	CORONAL MAGNETIC RECONNECTION DRIVEN BY CME EXPANSIONâ€”THE 2011 JUNE 7 EVENT. <i>Astrophysical Journal</i> , 2014, 788, 85.	4.5	53
6	Multi-wavelength observations of an X-class flare without a coronal mass ejection.. <i>Solar Physics</i> , 2002, 205, 325-339.	2.5	50
7	INVESTIGATING THE DYNAMICS AND DENSITY EVOLUTION OF RETURNING PLASMA BLOBS FROM THE 2011 JUNE 7 ERUPTION. <i>Astrophysical Journal</i> , 2014, 782, 87.	4.5	45
8	Relative Timing of Soft X-Ray Nonthermal Line Broadening and Hard X-Ray Emission in Solar Flares. <i>Astrophysical Journal</i> , 1998, 494, L235-L238.	4.5	35
9	Solar magnetism eXplorer (SolmeX). <i>Experimental Astronomy</i> , 2012, 33, 271-303.	3.7	34
10	Analysis of a coronal mass ejection and corotating interaction region as they travel from the Sun passing Venus, Earth, Mars, and Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1566-1588.	2.4	33
11	Evidence of Flaring in a Transequatorial Loop on the Sun. <i>Astrophysical Journal</i> , 2003, 598, L59-L62.	4.5	30
12	THE LOCATION OF NON-THERMAL VELOCITY IN THE EARLY PHASES OF LARGE FLARESâ€”REVEALING PRE-ERUPTION FLUX ROPES. <i>Astrophysical Journal</i> , 2013, 774, 122.	4.5	29
13	Flows in the solar atmosphere due to the eruptions on the 15th July, 2002. <i>Astronomy and Astrophysics</i> , 2005, 438, 1099-1106.	5.1	28
14	The soft X-ray characteristics of solar flares, both with and without associated CMEs. <i>Astronomy and Astrophysics</i> , 2003, 400, 779-784.	5.1	26
15	Plasma Evolution within an Erupting Coronal Cavity. <i>Astrophysical Journal</i> , 2018, 855, 74.	4.5	25
16	A Multiple Flare Scenario where the Classic Long-Duration Flare Was Not the Source of a CME. <i>Solar Physics</i> , 2007, 240, 283-299.	2.5	24
17	An Investigation of the CME of 3 November 2011 and Its Associated Widespread Solar Energetic Particle Event. <i>Solar Physics</i> , 2014, 289, 1731-1744.	2.5	24
18	Solar source of energetic particles in interplanetary space during the 2006 December 13 event. <i>Astronomy and Astrophysics</i> , 2009, 503, 1013-1021.	5.1	24

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19	A slow coronal mass ejection with rising X-ray source. <i>Astronomy and Astrophysics</i> , 2005, 434, 761-771.	5.1	23
20	Observations and Modelling of the Pre-flare Period of the 29 March 2014 X1 Flare. <i>Solar Physics</i> , 2017, 292, 38.	2.5	23
21	Beam electrons as a source of H α flare ribbons. <i>Nature Communications</i> , 2017, 8, 15905.	12.8	23
22	Properties of the 15 February 2011 Flare Seismic Sources. <i>Solar Physics</i> , 2013, 284, 315-327.	2.5	22
23	Transient Inverse-FIP Plasma Composition Evolution within a Solar Flare. <i>Astrophysical Journal</i> , 2019, 875, 35.	4.5	22
24	Spectropolarimetric Insight into Plasma Sheet Dynamics of a Solar Flare. <i>Astrophysical Journal Letters</i> , 2019, 887, L34.	8.3	20
25	Solar And Cosmic Ray Physics And The Space Environment: Studies For And With LISA. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	19
26	ANATOMY OF A SOLAR FLARE: MEASUREMENTS OF THE 2006 DECEMBER 14 X-CLASS FLARE WITH GONG, HINODE, AND RHESSI. <i>Astrophysical Journal</i> , 2011, 739, 71.	4.5	19
27	SPECTROSCOPIC SIGNATURES RELATED TO A SUNQUAKE. <i>Astrophysical Journal</i> , 2015, 812, 35.	4.5	19
28	Coronal mass ejections and their association to active region flaring.. <i>Solar Physics</i> , 2001, 200, 189-202.	2.5	18
29	The association of transequatorial loops in the solar corona with coronal mass ejection onset. <i>Astronomy and Astrophysics</i> , 2003, 400, 759-767.	5.1	18
30	Evidence for a Flux Rope driven EUV wave and CME: Comparison with the Piston Shock Model. <i>Astronomy and Astrophysics</i> , 2003, 399, 749-754.	5.1	16
31	COMPARISON OF SEISMIC SIGNATURES OF FLARES OBTAINED BY SOHO/MICHELSON DOPPLER IMAGER AND GONG INSTRUMENTS. <i>Astrophysical Journal</i> , 2011, 739, 70.	4.5	16
32	The Solar Activity Monitor Network “SAMNet”. <i>Journal of Space Weather and Space Climate</i> , 2022, 12, 2.	3.3	16
33	Decametric N Burst: A Consequence of the Interaction of Two Coronal Mass Ejections. <i>Solar Physics</i> , 2007, 240, 301-313.	2.5	15
34	The Triggering of the 2014 March 29 Filament Eruption. <i>Astrophysical Journal</i> , 2018, 860, 163.	4.5	15
35	Relating magnetic field strengths to hard X-ray emission in solar flares. <i>Astronomy and Astrophysics</i> , 2004, 423, 363-372.	5.1	14
36	The timing of non-thermal soft X-ray emission line broadenings in solar flares. <i>Astronomy and Astrophysics</i> , 2001, 379, 616-621.	5.1	13

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37	Dynamics of Late-stage Reconnection in the 2017 September 10 Solar Flare. <i>Astrophysical Journal</i> , 2020, 900, 192.	4.5	13
38	Long term evolution of a non-active region sigmoid and its CME activity. <i>Astronomy and Astrophysics</i> , 2001, 378, 239-246.	5.1	12
39	The relationship between UV and X-ray active region structures. <i>Solar Physics</i> , 1997, 175, 541-551.	2.5	11
40	Relating near-Earth observations of an interplanetary coronal mass ejection to the conditions at its site of origin in the solar corona. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	11
41	Measuring Velocities in the Early Stage of an Eruption: Using "Overlappogram" Data from Hinode EIS. <i>Astrophysical Journal</i> , 2017, 842, 58.	4.5	10
42	The 2013 February 17 Sunquake in the Context of the Active Region's Magnetic Field Configuration. <i>Astrophysical Journal</i> , 2017, 849, 40.	4.5	10
43	Lost and found sunquake in the 6 September 2011 flare caused by beam electrons. <i>Astronomy and Astrophysics</i> , 2018, 619, A65.	5.1	10
44	Flare characteristics: Properties of eruptive and non-eruptive events and their associations. <i>Advances in Space Research</i> , 2003, 32, 1051-1056.	2.6	9
45	What causes solar active region loops to exist at transition region temperatures?. <i>Solar Physics</i> , 2004, 223, 57-76.	2.5	9
46	Multi-scale reconnections in a complex CME. <i>Advances in Space Research</i> , 2008, 42, 858-865.	2.6	9
47	Flare-induced signals in polarization measurements during the X2.6 flare on 2005 January 15. <i>Research in Astronomy and Astrophysics</i> , 2009, 9, 812-828.	1.7	9
48	Pre-Flare Flows in the Corona. <i>Solar Physics</i> , 2010, 267, 361-375.	2.5	9
49	On the Seismicity of September 7, 2011 X1.8-class Flare. <i>Journal of Physics: Conference Series</i> , 2013, 440, 012046.	0.4	9
50	THE IMPACT OF A FILAMENT ERUPTION ON NEARBY HIGH-LYING COOL LOOPS. <i>Astrophysical Journal</i> , 2014, 792, 93.	4.5	9
51	Sunquake with a second bounce, other sunquakes, and emission associated with the X9.3 flare of 6 September 2017. <i>Astronomy and Astrophysics</i> , 2020, 639, A78.	5.1	7
52	Proposed mission concept for the Astrophysical Plasmadynamic Explorer (APEX): an EUV high-resolution spectroscopic SMEX. , 2003, , .		6
53	MAJOR ELECTRON EVENTS AND CORONAL MAGNETIC CONFIGURATIONS OF THE RELATED SOLAR ACTIVE REGIONS. <i>Astrophysical Journal Letters</i> , 2010, 720, L36-L40.	8.3	6
54	CORONAL JETS, MAGNETIC TOPOLOGIES, AND THE PRODUCTION OF INTERPLANETARY ELECTRON STREAMS. <i>Astrophysical Journal</i> , 2011, 735, 43.	4.5	6

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55	Locating Hot Plasma in Small Flares using Spectroscopic Overlappogram Data from the Hinode EUV Imaging Spectrometer. <i>Solar Physics</i> , 2020, 295, 1.	2.5	6
56	A Survey of the Hard X-Ray Characteristics of Seismically Active and Quiet White-Light Flares. <i>Solar Physics</i> , 2012, 277, 317-335.	2.5	5
57	Flare-related Recurring Active Region Jets: Evidence for Very Hot Plasma. <i>Solar Physics</i> , 2018, 293, 1.	2.5	5
58	Serial Flaring in an Active Region: Exploring Why Only One Flare Is Eruptive. <i>Astrophysical Journal</i> , 2020, 890, 84.	4.5	5
59	The apparent longitude distribution of solar flares. <i>Astronomy and Astrophysics</i> , 2003, 401, 1151-1157.	5.1	5
60	Sunquake with a second bounce, other sunquakes, and emission associated with the X9.3 flare of 6 September 2017. <i>Astronomy and Astrophysics</i> , 2020, 639, A79.	5.1	5
61	Probing Current Sheet Instabilities from Flare Ribbon Dynamics. <i>Astrophysical Journal</i> , 2021, 922, 117.	4.5	5
62	The magnetic topology of a sigmoid. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 497-504.	1.6	4
63	Solar Particle Acceleration Radiation and Kinetics (SPARK). <i>Experimental Astronomy</i> , 2012, 33, 237-269.	3.7	4
64	Multi-wavelength observations of Yohkoh white-light flares. <i>COSPAR Colloquia Series</i> , 2002, , 289-290.	0.2	3
65	Magnetic coupling of the Sun–Earth system – The view from STEREO. <i>Advances in Space Research</i> , 2007, 39, 1791-1803.	2.6	3
66	Stellar And Galactic Environment survey (SAGE). <i>Experimental Astronomy</i> , 2009, 23, 169-191.	3.7	3
67	Properties of EUV and X-ray emission in solar active regions. <i>Astronomy and Astrophysics</i> , 2001, 365, 186-197.	5.1	3
68	Non-thermal broadening of coronal emission lines in the onset phase of solar flares and CMEs. <i>Astronomy and Astrophysics</i> , 2006, 447, 719-725.	5.1	3
69	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
70	Trajectory design of Earth-enabled Sun occultation missions. <i>Acta Astronautica</i> , 2022, 195, 251-264.	3.2	3
71	Particle acceleration and the decay of soft X-ray non-thermal line broadening in solar flares. <i>Solar Physics</i> , 1994, 154, 157-175.	2.5	1
72	The Coronal Emission of Photospheric Magnetic Fragments. <i>Solar Physics</i> , 2002, 211, 125-134.	2.5	1

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73	Stellar and galactic environment survey (SAGE). <i>Astrophysics and Space Science</i> , 2009, 320, 231-238.	1.4	1
74	Anatomy of a flare and coronal mass ejection. <i>COSPAR Colloquia Series</i> , 2002, 13, 253-256.	0.2	0
75	Magnetic coupling in the solar system. <i>Astronomy and Geophysics</i> , 2009, 50, 2.31-2.35.	0.2	0
76	Magnetic reconnection driven by filament eruption in the 7 June 2011 event. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 502-503.	0.0	0
77	<i>Space Weather.</i> , 2004, , 157-185.		0
78	Stellar and galactic environment survey (SAGE). , 2008, , 235-242.		0
79	Non-Thermal Velocities Observed by Yohkoh. <i>Astrophysics and Space Science Library</i> , 1998, , 113-114.	2.7	0
80	The Relationship Between UV and X-Ray Brightenings. <i>Astrophysics and Space Science Library</i> , 1998, , 249-250.	2.7	0