Hugh S Hudson

List of Publications by Year
in descending order

87 papers	4,110 citations	156536 32 h-index	129628 63 g-index
89 all docs	89 docs citations	89 times ranked	2144 citing authors

#	Article	IF	Citations
1	NuSTAR Observation of Energy Release in 11 Solar Microflares. Astrophysical Journal, 2021, 908, 29.	1.6	18
2	Indications of stellar coronal mass ejections through coronal dimmings. Nature Astronomy, 2021, 5, 697-706.	4.2	52
3	NuSTAR observations of a repeatedly microflaring active region. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3936-3951.	1.6	16
4	Carrington Events. Annual Review of Astronomy and Astrophysics, 2021, 59, 445-477.	8.1	15
5	Thomson Scattering in the Lower Corona in the Presence of Sunspots. Astrophysical Journal, 2021, 923, 276.	1.6	3
6	Cosmic ray interactions in the solar atmosphere. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4852-4856.	1.6	13
7	Solar Flare Build-Up and Release. Solar Physics, 2020, 295, 1.	1.0	2
8	Lymanâ€alpha Variability During Solar Flares Over Solar Cycle 24 Using GOESâ€15/EUVSâ€E. Space Weather, 2020, 18, e2019SW002331.	1.3	20
9	NuSTAR Observation of a Minuscule Microflare in a Solar Active Region. Astrophysical Journal Letters, 2020, 893, L40.	3.0	18
10	Accelerated Electrons Observed Down to <7 keV in a NuSTAR Solar Microflare. Astrophysical Journal Letters, 2020, 891, L34.	3.0	45
11	Active Region Irradiance during Quiescent Periods: New Insights from Sun-as-a-star Spectra. Astrophysical Journal, 2020, 901, 64.	1.6	3
12	Sun-as-a-star Spectral Irradiance Observations of Transiting Active Regions. Astrophysical Journal, 2020, 902, 36.	1.6	22
13	Hot X-ray onsets of solar flares. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1273-1281.	1.6	19
14	Joint X-Ray, EUV, and UV Observations of a Small Microflare. Astrophysical Journal, 2019, 881, 109.	1.6	20
15	NuSTAR Detection of X-Ray Heating Events in the Quiet Sun. Astrophysical Journal Letters, 2018, 856, L32.	3.0	30
16	EVIDENCE OF SIGNIFICANT ENERGY INPUT IN THE LATE PHASE OF A SOLAR FLARE FROM NuSTAR X-RAY OBSERVATIONS. Astrophysical Journal, 2017, 835, 6.	1.6	15
17	The First ALMA Observation of a Solar Plasmoid Ejection from an X-Ray Bright Point. Astrophysical Journal Letters, 2017, 841, L5.	3.0	25
18	MAGNETIC PROPERTIES OF SOLAR ACTIVE REGIONS THAT GOVERN LARGE SOLAR FLARES AND ERUPTIONS. Astrophysical Journal, 2017, 834, 56.	1.6	134

#	Article	IF	Citations
19	NuSTAR Hard X-Ray Observation of a Sub-A Class Solar Flare. Astrophysical Journal, 2017, 845, 122.	1.6	32
20	Microflare Heating of a Solar Active Region Observed with NuSTAR, Hinode/XRT, and SDO/AIA. Astrophysical Journal, 2017, 844, 132.	1.6	56
21	The Solar X-Ray Limb. Astrophysical Journal, 2017, 843, 123.	1.6	4
22	First NuSTAR Limits on Quiet Sun Hard X-Ray Transient Events. Astrophysical Journal, 2017, 849, 131.	1.6	9
23	The Relationship between Long-Duration Gamma-Ray Flares and Solar Cosmic Rays. Proceedings of the International Astronomical Union, 2017, 13, 49-53.	0.0	10
24	Formation of the thermal infrared continuum in solar flares. Astronomy and Astrophysics, 2017, 605, A125.	2.1	32
25	THE FIRST X-RAY IMAGING SPECTROSCOPY OF QUIESCENT SOLAR ACTIVE REGIONS WITH NuSTAR. Astrophysical Journal Letters, 2016, 820, L14.	3.0	44
26	SUNQUAKE GENERATION BY CORONAL MAGNETIC RESTRUCTURING. Astrophysical Journal, 2016, 831, 42.	1.6	12
27	THE FIRST FOCUSED HARD X-RAY IMAGES OF THE SUN WITH NuSTAR. Astrophysical Journal, 2016, 826, 20.	1.6	45
28	The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?. Solar Physics, 2016, 291, 1761-1782.	1.0	69
29	Flare differentially rotates sunspot on Sunâ€™s surface. Nature Communications, 2016, 7, 13104.	5.8	42
30	SPECTRAL AND IMAGING OBSERVATIONS OF A WHITE-LIGHT SOLAR FLARE IN THE MID-INFRARED. Astrophysical Journal Letters, 2016, 819, L30.	3.0	26
31	ARCADE IMPLOSION CAUSED BY A FILAMENT ERUPTION IN A FLARE. Astrophysical Journal, 2016, 833, 221.	1.6	11
32	Chasing White-Light Flares. Solar Physics, 2016, 291, 1273-1322.	1.0	21
33	Solar Science with the Atacama Large Millimeter/Submillimeter Arrayâ€”A New View of Our Sun. Space Science Reviews, 2016, 200, 1-73.	3.7	113
34	CORRELATION OF HARD X-RAY AND WHITE LIGHT EMISSION IN SOLAR FLARES. Astrophysical Journal, 2016, 816, 6.	1.6	45
35	Solar extreme events. Journal of Physics: Conference Series, 2015, 632, 012058.	0.3	7
36	The solar magnetic activity band interaction and instabilities that shape quasi-periodic variability. Nature Communications, 2015, 6, 6491.	5.8	97

#	Article	IF	Citations
37	ELECTRON ENERGY PARTITION IN THE ABOVE-THE-LOOPTOP SOLAR HARD X-RAY SOURCES. Astrophysical Journal, 2015, 799, 129.	1.6	66
38	Åvestkaâ€™s Research Then and Now. Solar Physics, 2015, 290, 3383-3397.	1.0	3
39	CO-SPATIAL WHITE LIGHT AND HARD X-RAY FLARE FOOTPOINTS SEEN ABOVE THE SOLAR LIMB. Astrophysical Journal, 2015, 802, 19.	1.6	52
40	Soft X-Ray Pulsations in Solar Flares. Solar Physics, 2015, 290, 3625-3639.	1.0	71
41	SSALMON â€“ The Solar Simulations for the Atacama Large Millimeter Observatory Network. Advances in Space Research, 2015, 56, 2679-2692.	1.2	5
42	The Solar Activity Cycle. Space Sciences Series of ISSI, 2015, , .	0.0	6
43	OBSERVATIONS OF LINEAR POLARIZATION IN A SOLAR CORONAL LOOP PROMINENCE SYSTEM OBSERVED NEAR 6173 Ã.... Astrophysical Journal Letters, 2014, 786, L19.	3.0	22
44	Solar Sector Structure. Space Science Reviews, 2014, 186, 17-34.	3.7	14
45	Introduction to the Solar Activity Cycle: Overview of Causes and Consequences. Space Science Reviews, 2014, 186, 1-15.	3.7	42
46	CHROMOSPHERIC AND CORONAL OBSERVATIONS OF SOLAR FLARES WITH THE HELIOSEISMIC AND MAGNETIC IMAGER. Astrophysical Journal Letters, 2014, 780, L28.	3.0	29
47	THE RADIATED ENERGY BUDGET OF CHROMOSPHERIC PLASMA IN A MAJOR SOLAR FLARE DEDUCED FROM MULTI-WAVELENGTH OBSERVATIONS. Astrophysical Journal, 2014, 793, 70.	1.6	91
48	Cycle 23 Variation in Solar Flare Productivity. Solar Physics, 2014, 289, 1341-1347.	1.0	15
49	Transient Artifacts in a Flare Observed by the Helioseismic and Magnetic Imager on the Solar Dynamics Observatory. Solar Physics, 2014, 289, 809-819.	1.0	10
50	The Role of Magnetic Fields in Transient Seismic Emission Driven by Atmospheric Heating in Flares. Solar Physics, 2014, 289, 1457-1469.	1.0	7
51	Prominences in SDO/EVE spectra: contributions from large solar structures. Proceedings of the International Astronomical Union, 2013, 8, 439-440.	0.0	0
52	DIVISION II: COMMISSION 10: SOLAR ACTIVITY. Proceedings of the International Astronomical Union, 2013, 10, 106-108.	0.0	0
53	OBSERVATIONS OF ENHANCED EXTREME ULTRAVIOLET CONTINUA DURING AN X-CLASS SOLAR FLARE USING SDO /EVE. Astrophysical Journal Letters, 2012, 748, L14.	3.0	51
54	THERMAL PROPERTIES OF A SOLAR CORONAL CAVITY OBSERVED WITH THE X-RAY TELESCOPE ONHINODE. Astrophysical Journal, 2012, 746, 146.	1.6	48

#	Article	IF	Citations
55	THE HEIGHT OF A WHITE-LIGHT FLARE AND ITS HARD X-RAY SOURCES. Astrophysical Journal Letters, 2012, 753, L26.	3.0	71
56	Magneto-Acoustic Energetics Study of the Seismically Active Flare of 15 February 2011. Solar Physics, 2012, 280, 335-345.	1.0	25
57	Momentum Distribution in Solar Flare Processes. Solar Physics, 2012, 277, 77-88.	1.0	12
58	Global Forces in Eruptive Solar Flares: The Lorentz Force Acting on the Solar Atmosphere and the Solar Interior. Solar Physics, 2012, 277, 59-76.	1.0	109
59	TEMPERATURE AND DENSITY ESTIMATES OF EXTREME-ULTRAVIOLET FLARE RIBBONS DERIVED FROMTRACEDIFFRACTION PATTERNS. Astrophysical Journal, 2011, 734, 34.	1.6	6
60	Imaging Spectroscopy of a White-Light Solar Flare. Solar Physics, 2011, 269, 269-281.	1.0	30
61	The EVE Doppler Sensitivity and Flare Observations. Solar Physics, 2011, 273, 69-80.	1.0	25
62	Global Properties of Solar Flares. Space Science Reviews, 2011, 158, 5-41.	3.7	133
63	Overview of the Volume. Space Science Reviews, 2011, 159, 3-17.	3.7	18
64	Solar flares add up. Nature Physics, 2010, 6, 637-638.	6.5	14
65	Observations of solar and stellar eruptions, flares, and jets. , 2010, , 123-158.		7
66	THE OPTICAL DEPTH OF WHITE-LIGHT FLARE CONTINUUM. Astrophysical Journal, 2010, 722, 1514-1521.	1.6	16
67	G-BAND AND HARD X-RAY EMISSIONS OF THE 2006 DECEMBER 14 FLARE OBSERVED BYHINODE/SOT ANDRHESSI. Astrophysical Journal, 2010, 715, 651-655.	1.6	48
68	Flares and the chromosphere. Earth, Planets and Space, 2009, 61, 577-580.	0.9	2
69	A Large Excess in Apparent Solar Oblateness Due to Surface Magnetism. Science, 2008, 322, 560-562.	6.0	51
70	The Unpredictability of the Most Energetic Solar Events. Astrophysical Journal, 2007, 663, L45-L48.	1.6	28
71	Section 2. Solar energy flux variations. Geophysical Monograph Series, 2004, , 85-86.	0.1	1
72	Total Solar Irradiance Variation During Rapid Sunspot Growth. Solar Physics, 2004, 222, 1-15.	1.0	7

#	Article	IF	Citations
73	Impact of solar EUV, XUV, and X-Ray variations on Earths's atmosphere. Geophysical Monograph Series, 2004, , 341-354.	0.1	9
74	Soft X-ray observation of a large-scale coronal wave and its exciter. Solar Physics, 2003, 212, 121-149.	1.0	103
75	TRACEandYohkohObservations of a Whiteâ€Light Flare. Astrophysical Journal, 2003, 595, 483-492.	1.6	103
76	Recurrent flare/CME events from an emerging flux region. Geophysical Research Letters, 2001, 28, 3801-3804.	1.5	77
77	Onset of the Magnetic Explosion in Solar Flares and Coronal Mass Ejections. Astrophysical Journal, 2001, 552, 833-848.	1.6	770
78	[ITAL]SOHO[/ITAL] EIT Observations of Extreme-Ultraviolet â€œDimmingâ€•Associated with a Halo Coronal Mass Ejection. Astrophysical Journal, 1999, 520, L139-L142.	1.6	177
79	Title is missing!. Solar Physics, 1998, 182, 179-193.	1.0	54
80	Electron Temperatures of the Corona above a Solar Active Region Determined from S [CSC]xv[/CSC] Spectra. Astrophysical Journal, 1997, 479, L149-L152.	1.6	21
81	Large-scale active coronal phenomena in Yohkoh SXT images. Solar Physics, 1996, 168, 331-343.	1.0	15
82	Spatial relations between preflares and flares. Solar Physics, 1996, 165, 169-179.	1.0	31
83	Statistical Study of Solar X-Ray Jets Observed with the Yohkoh Soft X-Ray Telescope. Publication of the Astronomical Society of Japan, 1996, 48, 123-136.	1.0	330
84	Large-scale active coronal phenomena in Yohkoh SXT images. Solar Physics, 1995, 161, 331-363.	1.0	48
85	Comment on â€œThe solar flare mythâ€•by J. T. Gosling. Journal of Geophysical Research, 1995, 100, 3473-3477.	3.3	67
86	Solar flares: No "myth". Eos, 1995, 76, 405-405.	0.1	14
87	A Correlation in the Waiting-time Distributions of Solar Flares. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	5