

David M Smith

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

23,054
citations

38
h-index

94
g-index

94
ext. papers

26,385
ext. citations

5
avg, IF

5.28
L-index

#	Paper	IF	Citations
87	Fair Weather Neutron Bursts From Photonuclear Reactions by Extensive Air Shower Core Interactions in the Ground and Implications for Terrestrial Gamma-ray Flash Signatures. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090033	4.9	4
86	Terrestrial Gamma-Ray Flashes Can Be Detected With Radio Measurements of Energetic In-Cloud Pulses During Thunderstorms. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093627	4.9	2
85	NuSTAR Observation of Energy Release in 11 Solar Microflares.. <i>Astrophysical Journal</i> , 2021 , 908,	4.7	5
84	The Relationship Between TGF Production in Thunderstorms and Lightning Flash Rates and Amplitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034401	4.4	0
83	NuSTAR observations of a repeatedly microflaring active region.. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 3936-3951	4.3	0
82	NuSTAR Observation of a Minuscule Microflare in a Solar Active Region.. <i>Astrophysical Journal Letters</i> , 2020 , 893,	7.9	9
81	Accelerated Electrons Observed Down to . <i>Astrophysical Journal Letters</i> , 2020 , 891,	7.9	23
80	Detecting an Upward Terrestrial Gamma Ray Flash from its Reverse Positron Beam. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030942	4.4	1
79	Special Classes of Terrestrial Gamma Ray Flashes From RHESSI. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033043	4.4	0
78	Combining Cherenkov and scintillation detector observations with simulations to deduce the nature of high-energy radiation excesses during thunderstorms. <i>Physical Review D</i> , 2019 , 100,	4.9	7
77	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019 , 215, 9	7.5	205
76	Joint X-Ray, EUV, and UV Observations of a Small Microflare. <i>Astrophysical Journal</i> , 2019 , 881, 109	4.7	12
75	New Star Observations with : Flares from Young Stellar Objects in the Ophiuchi Cloud Complex in Hard X-Rays.. <i>Astrophysical Journal</i> , 2019 , 882,	4.7	1
74	Evidence for Extended Charging Periods Prior to Terrestrial Gamma Ray Flashes. <i>Geophysical Research Letters</i> , 2019 , 46, 10619-10626	4.9	5
73	A Terrestrial Gamma-Ray Flash inside the Eyewall of Hurricane Patricia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4977-4987	4.4	12
72	Hard X-Ray Constraints on Small-scale Coronal Heating Events. <i>Astrophysical Journal</i> , 2018 , 864, 5	4.7	12
71	Termination of Electron Acceleration in Thundercloud by Intracloud/Intercloud Discharge. <i>Geophysical Research Letters</i> , 2018 , 45, 5700-5707	4.9	26

70	Broadband RF Interferometric Mapping and Polarization (BIMAP) Observations of Lightning Discharges: Revealing New Physics Insights Into Breakdown Processes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,326	4.4	12
69	Characterizing Upward Lightning With and Without a Terrestrial Gamma Ray Flash. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 11,321	4.4	15
68	Physics in Sports. <i>Physics Teacher</i> , 2018 , 56, 482-482	0.4	
67	NuSTAR Detection of X-Ray Heating Events in the Quiet Sun. <i>Astrophysical Journal Letters</i> , 2018 , 856, L32	7.9	18
66	EVIDENCE OF SIGNIFICANT ENERGY INPUT IN THE LATE PHASE OF A SOLAR FLARE FROM NuSTAR X-RAY OBSERVATIONS. <i>Astrophysical Journal</i> , 2017 , 835, 6	4.7	11
65	NuSTAR Hard X-Ray Observation of a Sub-A Class Solar Flare. <i>Astrophysical Journal</i> , 2017 , 845, 122	4.7	22
64	A Statistical Study of the Spatial Extent of Relativistic Electron Precipitation With Polar Orbiting Environmental Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,274-11,284	2.6	13
63	Gamma Ray Signatures of Neutrons From a Terrestrial Gamma Ray Flash. <i>Geophysical Research Letters</i> , 2017 , 44, 10,063	4.9	38
62	Microflare Heating of a Solar Active Region Observed with NuSTAR, Hinode/XRT, and SDO/AIA. <i>Astrophysical Journal</i> , 2017 , 844, 132	4.7	37
61	Characterizing the source properties of terrestrial gamma ray flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8915-8932	2.6	10
60	First NuSTAR Limits on Quiet Sun Hard X-Ray Transient Events. <i>Astrophysical Journal</i> , 2017 , 849, 131	4.7	4
59	THE FIRST FOCUSED HARD X-RAY IMAGES OF THE SUN WITH NuSTAR. <i>Astrophysical Journal</i> , 2016 , 826, 20	4.7	33
58	The causes of the hardest electron precipitation events seen with SAMPEX. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8600-8613	2.6	9
57	THE FIRST X-RAY IMAGING SPECTROSCOPY OF QUIESCENT SOLAR ACTIVE REGIONS WITH NuSTAR. <i>Astrophysical Journal Letters</i> , 2016 , 820, L14	7.9	37
56	The rarity of terrestrial gamma-ray flashes: 2. RHESSI stacking analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 11,382	4.4	13
55	Radio emissions from double RHESSI TGFs. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8006-8022	4.4	16
54	A study of thunderstorm microphysical properties and lightning flash counts associated with terrestrial gamma-ray flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 3453-3464	4.4	11
53	Relativistic electron avalanches as a thunderstorm discharge competing with lightning. <i>Nature Communications</i> , 2015 , 6, 7845	17.4	42

52	Positron clouds within thunderstorms. <i>Journal of Plasma Physics</i> , 2015 , 81,	2.7	28
51	A summary of the BARREL campaigns: Technique for studying electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4922-4935	2.6	55
50	Investigation of EMIC wave scattering as the cause for the BARREL 17 January 2013 relativistic electron precipitation event: A quantitative comparison of simulation with observations. <i>Geophysical Research Letters</i> , 2014 , 41, 8722-8729	4.9	70
49	The structure of X-ray emissions from triggered lightning leaders measured by a pinhole-type X-ray camera. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 982-1002	4.4	15
48	Duskside relativistic electron precipitation as measured by SAMPEX: A statistical survey. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5050-5058	2.6	33
47	The Balloon Array for RBSP Relativistic Electron Losses (BARREL). <i>Space Science Reviews</i> , 2013 , 179, 503-530	7.3	61
46	INTERPLANETARY NETWORK LOCALIZATIONS OF KONUS SHORT GAMMA-RAY BURSTS. <i>Astrophysical Journal, Supplement Series</i> , 2013 , 207, 38	8	20
45	THE NUCLEAR SPECTROSCOPIC TELESCOPE ARRAY (NuSTAR) HIGH-ENERGY X-RAY MISSION. <i>Astrophysical Journal</i> , 2013 , 770, 103	4.7	1206
44	High-Energy Atmospheric Physics: Terrestrial Gamma-Ray Flashes and Related Phenomena. <i>Space Science Reviews</i> , 2012 , 173, 133-196	7.5	208
43	A new method reveals more TGFs in the RHESSI data. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	38
42	Electron-positron beams from terrestrial lightning observed with Fermi GBM. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	107
41	Characteristics of broadband lightning emissions associated with terrestrial gamma ray flashes. <i>Journal of Geophysical Research</i> , 2011 , 116,		56
40	The rarity of terrestrial gamma-ray flashes. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	38
39	A terrestrial gamma ray flash observed from an aircraft. <i>Journal of Geophysical Research</i> , 2011 , 116,		40
38	Comment on [Terrestrial gamma-ray flashes caused by neutron bursts above thunderclouds [J. Appl. Phys. 105, 083301 (2009)]]. <i>Journal of Applied Physics</i> , 2011 , 109, 026101	2.5	3
37	A new analysis of the short-duration, hard-spectrum GRB 051103, a possible extragalactic soft gamma repeater giant flare. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 403, 342-352	4.3	37
36	Thunderstorm characteristics associated with RHESSI identified terrestrial gamma ray flashes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		44
35	A closer examination of terrestrial gamma-ray flash-related lightning processes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		92

34	First results on terrestrial gamma ray flashes from the Fermi Gamma-ray Burst Monitor. <i>Journal of Geophysical Research</i> , 2010 , 115,		181
33	Comment on Seed electrons from muon decay for runaway mechanism in the terrestrial gamma ray flash production, by Gerson S. Paiva, Antonio C. Pavão, and Cristiano C. Bastos. <i>Journal of Geophysical Research</i> , 2010 , 115,		1
32	Lightning mapping observation of a terrestrial gamma-ray flash. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	102
31	Associations between Fermi Gamma-ray Burst Monitor terrestrial gamma ray flashes and sferics from the World Wide Lightning Location Network. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		79
30	Estimation of the fluence of high-energy electron bursts produced by thunderclouds and the resulting radiation doses received in aircraft. <i>Journal of Geophysical Research</i> , 2010 , 115,		57
29	Terrestrial gamma ray flashes correlated to storm phase and tropopause height. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		63
28	Spectral dependence of terrestrial gamma-ray flashes on source distance. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	73
27	First RHESSI terrestrial gamma ray flash catalog. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		91
26	RHESSI OBSERVATIONS OF THE PROPORTIONAL ACCELERATION OF RELATIVISTIC >0.3 MeV ELECTRONS AND >30 MeV PROTONS IN SOLAR FLARES. <i>Astrophysical Journal</i> , 2009 , 698, L152-L157	4.7	83
25	High-energy electron beams launched into space by thunderstorms. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	94
24	Time evolution of terrestrial gamma ray flashes. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	60
23	RHESSI Spectral Fits of Swift GRBs. <i>AIP Conference Proceedings</i> , 2008 ,	0	2
22	Massive disturbance of the daytime lower ionosphere by the giant X-ray flare from magnetar SGR 180620. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	57
21	The MESSENGER Gamma-Ray and Neutron Spectrometer. <i>Space Science Reviews</i> , 2007 , 131, 339-391	7.5	152
20	Observation of relativistic electron precipitation during a rapid decrease of trapped relativistic electron flux. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	79
19	A link between terrestrial gamma-ray flashes and intracloud lightning discharges. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	136
18	Lightning flashes conducive to the production and escape of gamma radiation to space. <i>Journal of Geophysical Research</i> , 2006 , 111,		87
17	Terrestrial gamma ray flashes and lightning discharges. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	53

16	Rapid fluctuations of stratospheric electric field following a solar energetic particle event. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	21
15	Gamma-Ray Imaging of the 2003 October/November Solar Flares. <i>Astrophysical Journal</i> , 2006 , 644, L93-L96	4.9	116
14	. <i>IEEE Transactions on Nuclear Science</i> , 2006 , 53, 270-278	1.7	3723
13	Puzzles and potential for gamma-ray line observations of solar flare ion acceleration. <i>Experimental Astronomy</i> , 2006 , 20, 65-73	1.3	1
12	Measurements and implications of the relationship between lightning and terrestrial gamma ray flashes. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	145
11	A comparison between Monte Carlo simulations of runaway breakdown and terrestrial gamma-ray flash observations. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	204
10	Terrestrial gamma-ray flashes observed up to 20 MeV. <i>Science</i> , 2005 , 307, 1085-8	33.3	330
9	First Gamma-Ray Images of a Solar Flare. <i>Astrophysical Journal</i> , 2003 , 595, L77-L80	4.7	133
8	Geant4 simulation toolkit. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 506, 250-303	1.2	13788
7	X-ray observations of MeV electron precipitation with a balloon-borne germanium spectrometer. <i>Geophysical Research Letters</i> , 2002 , 29, 47-1-47-4	4.9	121
6	Precipitation of relativistic electrons by interaction with electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , 2000 , 105, 5381-5389		116
5	Earth scale defined by modern satellite ranging observations. <i>Geophysical Research Letters</i> , 1999 , 26, 1489-1492	4.9	18
4	First detection of a terrestrial MeV X-ray burst. <i>Geophysical Research Letters</i> , 1998 , 25, 4109-4112	4.9	55
3	High-resolution spectra of 20-300 Kev hard X-rays from electron precipitation over Antarctica. <i>Journal of Geophysical Research</i> , 1995 , 100, 19675		13
2	The MB Photomultiplier Test Facility for Proton Decay Studies. <i>IEEE Transactions on Nuclear Science</i> , 1981 , 28, 445-450	1.7	2
1	The high-energy Sun - probing the origins of particle acceleration on our nearest star. <i>Experimental Astronomy</i> , 1	1.3	0