

# William Rison

## List of Publications by Year in descending order

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73  
papers

5,951  
citations

100601

38  
h-index

104191

69  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2579  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radio Interferometer Observations and Analysis of an Energetic In-Cloud Pulse Based on Ensemble Empirical Mode Decomposition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	2.7	3
2	Initiation of lightning flashes simultaneously observed from space and the ground: Narrow bipolar events. <i>Atmospheric Research</i> , 2022, 268, 105981.	1.8	9
3	3D Total Lightning Observation Network in Tokyo Metropolitan Area (Tokyo LMA). <i>Journal of Disaster Research</i> , 2021, 16, 778-785.	0.4	2
4	A Distinct Class of High Peak Current Lightning Pulses Over Mountainous Terrain in Thunderstorms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094153.	1.5	5
5	Timing Calibration and Windowing Technique Comparison for Lightning Mapping Arrays. <i>Earth and Space Science</i> , 2021, 8, e2020EA001523.	1.1	0
6	Radio Interferometer Observations of an Energetic in-Cloud Pulse Reveal Large Currents Generated by Relativistic Discharges. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032603.	1.2	29
7	Observations of the Origin of Downward Terrestrial Gamma-Ray Flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031940.	1.2	39
8	New World Meteorological Organization Certified Megaflash Lightning Extremes for Flash Distance (709 km) and Duration (16.73 s) Recorded From Space. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088888.	1.5	29
9	Understanding the Radio Spectrum of Thunderstorm Narrow Bipolar Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10134-10153.	1.2	32
10	Fast negative breakdown in thunderstorms. <i>Nature Communications</i> , 2019, 10, 1648.	5.8	68
11	SAETTA: high-resolution 3-D mapping of the total lightning activity in the Mediterranean Basin over Corsica, with a focus on a mesoscale convective system event. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5765-5790.	1.2	16
12	Very High Frequency Radio Emissions Associated With the Production of Terrestrial Gamma-Ray Flashes. <i>Geophysical Research Letters</i> , 2018, 45, 2097-2105.	1.5	26
13	Lightning initiation: Strong pulses of VHF radiation accompany preliminary breakdown. <i>Scientific Reports</i> , 2018, 8, 3650.	1.6	20
14	Leader Polarity Reversal Feature and Charge Structure of Three Upward Bipolar Lightning Flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9430-9442.	1.2	14
15	Gamma Ray Showers Observed at Ground Level in Coincidence With Downward Lightning Leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6864-6879.	1.2	58
16	Characteristics of Radio Emissions Associated With Terrestrial Gamma-Ray Flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5933-5948.	0.8	26
17	Corona discharges from a windmill and its lightning protection tower in winter thunderstorms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4849-4865.	1.2	11
18	WMO World Record Lightning Extremes: Longest Reported Flash Distance and Longest Reported Flash Duration. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1153-1168.	1.7	49

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19	Statistical analysis of storm electrical discharges reconstituted from a lightning mapping system, a lightning location system, and an acoustic array. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3929-3953.	1.2	16
20	Observations of narrow bipolar events reveal how lightning is initiated in thunderstorms. <i>Nature Communications</i> , 2016, 7, 10721.	5.8	182
21	Observations of two sprite-producing storms in Colorado. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9675-9695.	1.2	12
22	Climatological analyses of LMA data with an open-source lightning flash-clustering algorithm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8625-8648.	1.2	51
23	Ground detection of terrestrial gamma ray flashes from distant radio signals. <i>Geophysical Research Letters</i> , 2016, 43, 8728-8734.	1.5	41
24	An overview of the lightning and atmospheric electricity observations collected in southern France during the HYdrological cycle in Mediterranean EXperiment (HyMeX), Special Observation Period 1. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 649-669.	1.2	35
25	Environmental controls on storm intensity and charge structure in multiple regions of the continental United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6575-6596.	1.2	83
26	Observations of Corona Discharges from Wind Turbines. , 2015, , .		3
27	Lightning in Wildfire Smoke Plumes Observed in Colorado during Summer 2012. <i>Monthly Weather Review</i> , 2014, 142, 489-507.	0.5	44
28	HyMeX-SOP1: The Field Campaign Dedicated to Heavy Precipitation and Flash Flooding in the Northwestern Mediterranean. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1083-1100.	1.7	262
29	Data processing procedure using distribution of slopes of phase differences for broadband VHF interferometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6085-6104.	1.2	27
30	Continuous broadband digital interferometry of lightning using a generalized cross-correlation algorithm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3134-3165.	1.2	131
31	Properties of the unusually short pulse sequences occurring prior to the first strokes of negative cloud-to-ground lightning flashes. <i>Geophysical Research Letters</i> , 2014, 41, 5316-5324.	1.5	18
32	Photographic observations of streamers and steps in a cloud-to-air negative leader. <i>Geophysical Research Letters</i> , 2014, 41, 1336-1342.	1.5	34
33	The 2010 eruption of Eyjafjallajökull: Lightning and plume charge structure. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 833-859.	1.2	37
34	Location and analysis of acoustic infrasound pulses in lightning. <i>Geophysical Research Letters</i> , 2014, 41, 4735-4744.	1.5	15
35	Observations of volcanic lightning during the 2009 eruption of Redoubt Volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 259, 214-234.	0.8	80
36	Rocket-and-wire triggered lightning in 2012 tropical storm Debby in the absence of natural lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,158-13,174.	1.2	19

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37	Coordinated observations of sprites and in-cloud lightning flash structure. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6607-6632.	1.2	73
38	Correlated lightning mapping array and radar observations of the initial stages of three sequentially triggered Florida lightning discharges. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8460-8481.	1.2	34
39	VHF lightning mapping observations of a triggered lightning flash. Geophysical Research Letters, 2012, 39, .	1.5	61
40	Geometrical and electrical characteristics of the initial stage in Florida triggered lightning. Geophysical Research Letters, 2012, 39, .	1.5	23
41	Acoustic localization of triggered lightning. Journal of Geophysical Research, 2011, 116, .	3.3	25
42	Lightning development associated with two negative gigantic jets. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	44
43	Lightning leader stepping, K changes, and other observations near an intracloud flash. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	44
44	Observations of lightning flash development associated with gigantic jets. , 2011, , .		0
45	Upward electrical discharges from thunderstorms. Nature Geoscience, 2008, 1, 233-237.	5.4	255
46	TELEX The Thunderstorm Electrification and Lightning Experiment. Bulletin of the American Meteorological Society, 2008, 89, 997-1014.	1.7	174
47	Electrical Activity During the 2006 Mount St. Augustine Volcanic Eruptions. Science, 2007, 315, 1097-1097.	6.0	70
48	Electrical and Polarimetric Radar Observations of a Multicell Storm in TELEX. Monthly Weather Review, 2007, 135, 2525-2544.	0.5	92
49	Three-dimensional fractal modeling of intracloud lightning discharge in a New Mexico thunderstorm and comparison with lightning mapping observations. Journal of Geophysical Research, 2007, 112, .	3.3	73
50	Lightning-Initiation Locations as a Remote Sensing Tool of Large Thunderstorm Electric Field Vectors. Journal of Atmospheric and Oceanic Technology, 2005, 22, 1059-1068.	0.5	33
51	Inverted-polarity electrical structures in thunderstorms in the Severe Thunderstorm Electrification and Precipitation Study (STEPS). Atmospheric Research, 2005, 76, 247-271.	1.8	174
52	Observed electric fields associated with lightning initiation. Geophysical Research Letters, 2005, 32, .	1.5	105
53	The Electrical Structure of Two Supercell Storms during STEPS. Monthly Weather Review, 2005, 133, 2583-2607.	0.5	112
54	The Severe Thunderstorm Electrification and Precipitation Study. Bulletin of the American Meteorological Society, 2004, 85, 1107-1126.	1.7	175

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55	Accuracy of the Lightning Mapping Array. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	361
56	Effects of charge and electrostatic potential on lightning propagation. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	152
57	Energetic radiation associated with lightning stepped-leaders. <i>Geophysical Research Letters</i> , 2001, 28, 2141-2144.	1.5	194
58	Observations of VHF source powers radiated by lightning. <i>Geophysical Research Letters</i> , 2001, 28, 143-146.	1.5	178
59	The Use of Simultaneous Horizontal and Vertical Transmissions for Dual-Polarization Radar Meteorological Observations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001, 18, 629-648.	0.5	28
60	Comparison of ground-based 3-dimensional lightning mapping observations with satellite-based LIS observations in Oklahoma. <i>Geophysical Research Letters</i> , 2000, 27, 1703-1706.	1.5	127
61	Measurements of lightning rod responses to nearby strikes. <i>Geophysical Research Letters</i> , 2000, 27, 1487-1490.	1.5	57
62	GPS-based mapping system reveals lightning inside storms. <i>Eos</i> , 2000, 81, 21.	0.1	187
63	A distinct class of isolated intracloud lightning discharges and their associated radio emissions. <i>Journal of Geophysical Research</i> , 1999, 104, 4189-4212.	3.3	208
64	High speed video of initial sprite development. <i>Geophysical Research Letters</i> , 1999, 26, 3201-3204.	1.5	144
65	A GPS-based three-dimensional lightning mapping system: Initial observations in central New Mexico. <i>Geophysical Research Letters</i> , 1999, 26, 3573-3576.	1.5	581
66	The use of dual channel circular-polarization radar observations for remotely sensing storm electrification. <i>Meteorology and Atmospheric Physics</i> , 1996, 59, 65-82.	0.9	45
67	Radio interferometric observations of cloud-to-ground lightning phenomena in Florida. <i>Journal of Geophysical Research</i> , 1995, 100, 2749.	3.3	229
68	Helium isotope diffusion in natural diamonds. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1747-1757.	1.6	20
69	Helium isotopes in geothermal and volcanic gases of the western United States, I. Regional variability and magmatic origin. <i>Journal of Volcanology and Geothermal Research</i> , 1988, 34, 185-199.	0.8	73
70	Helium isotopes in geothermal and volcanic gases of the Western United States, II. Long Valley Caldera. <i>Journal of Volcanology and Geothermal Research</i> , 1988, 34, 201-209.	0.8	37
71	Helium isotopes and mantle volatiles in Loihi Seamount and Hawaiian Island basalts and xenoliths. <i>Earth and Planetary Science Letters</i> , 1983, 66, 407-426.	1.8	219
72	Isotopic fractionation of argon during stepwise release from shungite. <i>Earth and Planetary Science Letters</i> , 1980, 47, 383-390.	1.8	5

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73	Experimental validation of conventional and nonconventional lightning protection systems. , 0, , .		12