Phillip M Bitzer

List of Publications by Year
in descending order

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32 papers	629 citations	566801 15 h-index	610482 24 g-index
34 all docs	34 docs citations	34 times ranked	753 citing authors

#	Article	IF	Citations
1	Characterization and applications of VLF/LF source locations fromâ€‰lightning using the Huntsville Alabama Marx Meter Array. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3120-3138.	1.2	77
2	Lightning is a major cause of large tree mortality in a lowland neotropical forest. New Phytologist, 2020, 225, 1936-1944.	3.5	46
3	Global distribution and properties of continuing current in lightning. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1033-1041.	1.2	44
4	A Storm Safari in Subtropical South America: Proyecto RELAMPAGO. Bulletin of the American Meteorological Society, 2021, 102, E1621-E1644.	1.7	42
5	A Bayesian Approach to Assess the Performance of Lightning Detection Systems. Journal of Atmospheric and Oceanic Technology, 2016, 33, 563-578.	0.5	41
6	Evaluation of the Performance Characteristics of the Lightning Imaging Sensor. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1015-1031.	0.5	30
7	Huntsville Alabama Marx Meter Array 2: Upgrade and Capability. Earth and Space Science, 2020, 7, e2020EA001111.	1.1	24
8	A First Look at Cloud Inhomogeneity and Its Effect on Lightning Optical Emission. Geophysical Research Letters, 2020, 47, e2020GL087094.	1.5	21
9	The RELAMPAGO Lightning Mapping Array: Overview and Initial Comparison with the Geostationary Lightning Mapper. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1457-1475.	0.5	21
10	Direct effects of lightning in temperate forests: a review and preliminary survey in a hemlockâ€“hardwood forest of the northern United States. Canadian Journal of Forest Research, 2015, 45, 1258-1268.	0.8	20
11	Bayesian techniques to analyze and merge lightning locating system data. Geophysical Research Letters, 2016, 43, 12,605.	1.5	20
12	Pantropical geography of lightningâ€caused disturbance and its implications for tropical forests. Global Change Biology, 2020, 26, 5017-5026.	4.2	20
13	A Machineâ€Learning Approach to Classify Cloudâ€toâ€Ground and Intracloud Lightning. Geophysical Research Letters, 2021, 48, .	1.5	20
14	Quantification and identification of lightning damage in tropical forests. Ecology and Evolution, 2017, 7, 5111-5122.	0.8	19
15	Effects of lightning on trees: A predictive model based on in situ electrical resistivity. Ecology and Evolution, 2017, 7, 8523-8534.	0.8	18
16	Timing Uncertainty of the Lightning Imaging Sensor. Journal of Atmospheric and Oceanic Technology, 2015, 32, 453-460.	0.5	15
17	Quantitative Differences between Lightning and Nonlightning Convective Rainfall Events as Observed with Polarimetric Radar and MSG Satellite Data. Monthly Weather Review, 2014, 142, 3651-3665.	0.5	14
18	Investigating the Relationship between Lightning and Mesocyclonic Rotation in Supercell Thunderstorms. Weather and Forecasting, 2017, 32, 2237-2259.	0.5	14

#	Article	IF	Citations
19	A mechanistic and empirically supported lightning risk model for forest trees. Journal of Ecology, 2020, 108, 1956-1966.	1.9	14
20	Analysis of Location Errors of the U.S. National Lightning Detection Network Using Lightning Strikes to Towers. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032530.	1.2	13
21	The contributions of lightning to biomass turnover, gap formation and plant mortality in a tropical forest. Ecology, 2021, 102, e03541.	1.5	13
22	On the timing between terrestrial gamma ray flashes, radio atmospherics, and optical lightning emission. Journal of Geophysical Research: Space Physics, 2017, 122, 7734-7741.	0.8	12
23	Characterizing Charge Structure in Central Argentina Thunderstorms During RELAMPAGO Utilizing a New Charge Layer Polarity Identification Method. Earth and Space Science, 2021, 8, e2021EA001803.	1.1	12
24	Geostationary Lightning Mapper Flash Characteristics of Electrified Snowfall Events. Weather and Forecasting, 2019, 34, 1571-1585.	0.5	11
25	Why Flash Type Matters: A Statistical Analysis. Geophysical Research Letters, 2017, 44, 9505-9512.	1.5	9
26	A new approach to map lightning channels based on low-frequency interferometry. Atmospheric Research, 2021, 247, 105139.	1.8	8
27	An Inâ€Depth Analysis of Lightning Trends in Hurricane Harvey Using Satellite and Groundâ€Based Measurements. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032859.	1.2	7
28	The Detection of Continuing Current in Lightning Using the Geostationary Lightning Mapper. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	6
29	Multiple Strokes Along the Same Channel to Ground in Positive Lightning Produced by a Supercell. Geophysical Research Letters, 2021, 48, e2021GL096714.	1.5	5
30	The Relation of Environmental Conditions With Charge Structure in Central Argentina Thunderstorms. Earth and Space Science, 2022, 9, .	1.1	5
31	Mitigating VHF Lightning Source Retrieval Errors. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1033-1052.	0.5	4
32	Classification of GLM Flashes Using Random Forests. Earth and Space Science, 2021, 8, e2021EA001861.	1.1	4