

Lawrence Carey

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,059
citations

201385

27
h-index

174990

52
g-index

57
all docs

57
docs citations

57
times ranked

2167
citing authors

#	ARTICLE	IF	CITATIONS
1	The GOES-R Geostationary Lightning Mapper (GLM). Atmospheric Research, 2013, 125-126, 34-49.	1.8	342
2	The Relationship between Precipitation and Lightning in Tropical Island Convection: A C-Band Polarimetric Radar Study. Monthly Weather Review, 2000, 128, 2687-2710.	0.5	180
3	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. Bulletin of the American Meteorological Society, 2015, 96, 1281-1309.	1.7	165
4	Lightning and Severe Weather: A Comparison between Total and Cloud-to-Ground Lightning Trends. Weather and Forecasting, 2011, 26, 744-755.	0.5	163
5	Electrical and multiparameter radar observations of a severe hailstorm. Journal of Geophysical Research, 1998, 103, 13979-14000.	3.3	151
6	Lightning location relative to storm structure in a leading-line, trailing-stratiform mesoscale convective system. Journal of Geophysical Research, 2005, 110, .	3.3	151
7	Radar observations of the kinematic, microphysical, and precipitation characteristics of two MCSs in TRMM LBA. Journal of Geophysical Research, 2002, 107, LBA 44-1.	3.3	143
8	Preliminary Development and Evaluation of Lightning Jump Algorithms for the Real-Time Detection of Severe Weather. Journal of Applied Meteorology and Climatology, 2009, 48, 2543-2563.	0.6	141
9	Environmental Control of Cloud-to-Ground Lightning Polarity in Severe Storms. Monthly Weather Review, 2007, 135, 1327-1353.	0.5	112
10	Correcting Propagation Effects in C-Band Polarimetric Radar Observations of Tropical Convection Using Differential Propagation Phase. Journal of Applied Meteorology and Climatology, 2000, 39, 1405-1433.	1.7	110
11	The Community Collaborative Rain, Hail, and Snow Network: Informal Education for Scientists and Citizens. Bulletin of the American Meteorological Society, 2005, 86, 1069-1078.	1.7	110
12	Meteorological Overview of the Devastating 27 April 2011 Tornado Outbreak. Bulletin of the American Meteorological Society, 2014, 95, 1041-1062.	1.7	83
13	The Relationship between Severe Storm Reports and Cloud-to-Ground Lightning Polarity in the Contiguous United States from 1989 to 1998. Monthly Weather Review, 2003, 131, 1211-1228.	0.5	81
14	Insight into the Kinematic and Microphysical Processes that Control Lightning Jumps. Weather and Forecasting, 2015, 30, 1591-1621.	0.5	72
15	Toward Completing the Raindrop Size Spectrum: Case Studies Involving 2D-Video Disdrometer, Droplet Spectrometer, and Polarimetric Radar Measurements. Journal of Applied Meteorology and Climatology, 2017, 56, 877-896.	0.6	67
16	Evolution of the total lightning structure in a leading-line, trailing-stratiform mesoscale convective system over Houston, Texas. Journal of Geophysical Research, 2008, 113, .	3.3	57
17	Radar Nowcasting of Cloud-to-Ground Lightning over Houston, Texas. Weather and Forecasting, 2011, 26, 199-212.	0.5	56
18	Total Lightning Signatures of Thunderstorm Intensity over North Texas. Part I: Supercells. Monthly Weather Review, 2007, 135, 3281-3302.	0.5	54

#	ARTICLE	IF	CITATIONS
19	Exploring Lightning Jump Characteristics. <i>Weather and Forecasting</i> , 2015, 30, 23-37.	0.5	52
20	Searching for Large Raindrops: A Global Summary of Two-Dimensional Video Disdrometer Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 1069-1089.	0.6	51
21	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
22	Radar and Lightning Observations of Deep Moist Convection across Northern Alabama during DC3: 21 May 2012. <i>Monthly Weather Review</i> , 2015, 143, 2774-2794.	0.5	50
23	Examining Deep Convective Cloud Evolution Using Total Lightning, WSR-88D, and GOES-14 Super Rapid Scan Datasets*. <i>Weather and Forecasting</i> , 2015, 30, 571-590.	0.5	50
24	Evolution of Cloud-to-Ground Lightning and Storm Structure in the Spencer, South Dakota, Tornadoic Supercell of 30 May 1998. <i>Monthly Weather Review</i> , 2003, 131, 1811-1831.	0.5	49
25	Kinematic and Microphysical Significance of Lightning Jumps versus Nonjump Increases in Total Flash Rate. <i>Weather and Forecasting</i> , 2017, 32, 275-288.	0.5	45
26	A Storm Safari in Subtropical South America: Proyecto RELAMPAGO. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1621-E1644.	1.7	42
27	A Comparison of Two Ground-Based Lightning Detection Networks against the Satellite-Based Lightning Imaging Sensor (LIS). <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 2191-2205.	0.5	40
28	An Evaluation of Relationships between Radar-Inferred Kinematic and Microphysical Parameters and Lightning Flash Rates in Alabama Storms. <i>Atmosphere</i> , 2019, 10, 796.	1.0	30
29	Microphysical and Kinematic Processes Associated With Anomalous Charge Structures in Isolated Convection. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6505-6528.	1.2	29
30	Evolution of radar reflectivity and total lightning characteristics of the 21 April 2006 mesoscale convective system over Texas. <i>Atmospheric Research</i> , 2008, 89, 113-137.	1.8	25
31	Regional Comparison of GOES Cloud-Top Properties and Radar Characteristics in Advance of First-Flash Lightning Initiation. <i>Monthly Weather Review</i> , 2013, 141, 55-74.	0.5	25
32	Quality Control and Calibration of the Dual-Polarization Radar at Kwajalein, RMI. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 181-196.	0.5	24
33	Huntsville Alabama Marx Meter Array 2: Upgrade and Capability. <i>Earth and Space Science</i> , 2020, 7, e2020EA001111.	1.1	24
34	Lightning characteristics relative to radar, altitude and temperature for a multicell, MCS and supercell over northern Alabama. <i>Atmospheric Research</i> , 2017, 191, 128-140.	1.8	21
35	The RELAMPAGO Lightning Mapping Array: Overview and Initial Comparison with the Geostationary Lightning Mapper. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 1457-1475.	0.5	21
36	The kinematic and microphysical control of lightning rate, extent, and NO _x production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7975-7989.	1.2	20

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37	Sensitivity of C-Band Polarimetric Radar-Based Drop Size Estimates to Maximum Diameter. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 1352-1371.	0.6	18
38	Observed Response of the Raindrop Size Distribution to Changes in the Melting Layer. <i>Atmosphere</i> , 2018, 9, 319.	1.0	17
39	Effects of Scavenging, Entrainment, and Aqueous Chemistry on Peroxides and Formaldehyde in Deep Convective Outflow Over the Central and Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7594-7614.	1.2	15
40	Quantitative Differences between Lightning and Nonlightning Convective Rainfall Events as Observed with Polarimetric Radar and MSG Satellite Data. <i>Monthly Weather Review</i> , 2014, 142, 3651-3665.	0.5	14
41	Investigating the Relationship between Lightning and Mesocyclonic Rotation in Supercell Thunderstorms. <i>Weather and Forecasting</i> , 2017, 32, 2237-2259.	0.5	14
42	Radar Reflectivity and Altitude Distributions of Lightning as a Function of IC, CG, and HY Flashes: Implications for LNO _x Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,796.	1.2	13
43	Characterizing Charge Structure in Central Argentina Thunderstorms During RELAMPAGO Utilizing a New Charge Layer Polarity Identification Method. <i>Earth and Space Science</i> , 2021, 8, e2021EA001803.	1.1	12
44	A Random Forest Method to Forecast Downbursts Based on Dual-Polarization Radar Signatures. <i>Remote Sensing</i> , 2019, 11, 826.	1.8	11
45	Observations of Anomalous Charge Structures in Supercell Thunderstorms in the Southeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033012.	1.2	10
46	Why Flash Type Matters: A Statistical Analysis. <i>Geophysical Research Letters</i> , 2017, 44, 9505-9512.	1.5	9
47	Evaluation of deep convective transport in storms from different convective regimes during the DC3 field campaign using WRF-Chem with lightning data assimilation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7140-7163.	1.2	9
48	Radar Reflectivity and Altitude Distributions of Lightning Flashes as a Function of Three Main Storm Types. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,814.	1.2	9
49	Examining Conditions Supporting the Development of Anomalous Charge Structures in Supercell Thunderstorms in the Southeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034582.	1.2	9
50	Multiple Strokes Along the Same Channel to Ground in Positive Lightning Produced by a Supercell. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096714.	1.5	5
51	The Relation of Environmental Conditions With Charge Structure in Central Argentina Thunderstorms. <i>Earth and Space Science</i> , 2022, 9, .	1.1	5
52	C-band Dual-Polarization Radar Signatures of Wet Downbursts around Cape Canaveral, Florida. <i>Weather and Forecasting</i> , 2019, 34, 103-131.	0.5	2