Richard Blakeslee

List of Publications by Year
in descending order

61	4,807	109137 35	138251 58
papers	citations	h-index	g-index

62	62	62	3410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global frequency and distribution of lightning as observed from space by the Optical Transient Detector. Journal of Geophysical Research, 2003, 108, ACL 4-1.	3.3	1,090
2	Gridded lightning climatology from TRMM-LIS and OTD: Dataset description. Atmospheric Research, 2014, 135-136, 404-414.	1.8	405
3	The GOES-R Geostationary Lightning Mapper (GLM). Atmospheric Research, 2013, 125-126, 34-49.	1.8	342
4	Where Are the Lightning Hotspots on Earth?. Bulletin of the American Meteorological Society, 2016, 97, 2051-2068.	1.7	231
5	Performance Assessment of the Optical Transient Detector and Lightning Imaging Sensor. Part I: Predicted Diurnal Variability. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1318-1332.	0.5	205
6	Performance assessment of the Optical Transient Detector and Lightning Imaging Sensor. Journal of Geophysical Research, 2007, 112, .	3.3	153
7	The detection of lightning from geostationary orbit. Journal of Geophysical Research, 1989, 94, 13329-13337.	3.3	142
8	Lightning mapping observation of a terrestrial gammaâ€ray flash. Geophysical Research Letters, 2010, 37, .	1.5	123
9	Observations of lightning in the stratosphere. Journal of Geophysical Research, 1995, 100, 1465-1475.	3.3	108
10	North Alabama Lightning Mapping Array (LMA): VHF Source Retrieval Algorithm and Error Analyses. Journal of Atmospheric and Oceanic Technology, 2004, 21, 543-558.	0.5	106
11	TRMM Observations of Intraseasonal Variability in Convective Regimes over the Amazon. Journal of Climate, 2002, 15, 1278-1294.	1.2	105
12	The Chuva Project: How Does Convection Vary across Brazil?. Bulletin of the American Meteorological Society, 2014, 95, 1365-1380.	1.7	100
13	Electrical measurements over thunderstorms. Journal of Geophysical Research, 1989, 94, 13135-13140.	3.3	92
14	Seasonal variations in the lightning diurnal cycle and implications for the global electric circuit. Atmospheric Research, 2014, 135-136, 228-243.	1.8	86
15	Global electric circuit implications of combined aircraft storm electric current measurements and satellite-based diurnal lightning statistics. Journal of Geophysical Research, 2011, 116, .	3.3	85
16	Coordinated observations of sprites and inâ€cloud lightning flash structure. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6607-6632.	1.2	73
17	Insight into the Kinematic and Microphysical Processes that Control Lightning Jumps. Weather and Forecasting, 2015, 30, 1591-1621.	0.5	72
18	Charge transfer and inâ€cloud structure of largeâ€chargeâ€moment positive lightning strokes in a mesoscale convective system. Geophysical Research Letters, 2009, 36, .	1.5	68

#	Article	IF	Citations
19	Lightningâ€generated NO_x seen by the Ozone Monitoring Instrument during NASA's Tropical Composition, Cloud and Climate Coupling Experiment (TC⁴). Journal of Geophysical Research, 2010, 115, .	3.3	65
20	Three Years of the Lightning Imaging Sensor Onboard the International Space Station: Expanded Global Coverage and Enhanced Applications. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032918.	1.2	65
21	A Cloud-to-Space Lightning as Recorded by the Space Shuttle Payload-Bay TV Cameras. Monthly Weather Review, 1992, 120, 1459-1461.	0.5	65
22	TRMM LIS Climatology of Thunderstorm Occurrence and Conditional Lightning Flash Rates*. Journal of Climate, 2015, 28, 6536-6547.	1.2	62
23	Diffusion model for lightning radiative transfer. Journal of Geophysical Research, 1994, 99, 14361.	3.3	57
24	Lightning morphology and impulse charge moment change of high peak current negative strokes. Journal of Geophysical Research, 2012, 117, .	3.3	55
25	A terrestrial gamma ray flash observed from an aircraft. Journal of Geophysical Research, 2011, 116, .	3.3	54
26	Electric fields, conductivity, and estimated currents from aircraft overflights of electrified clouds. Journal of Geophysical Research, 2009, 114, .	3.3	47
27	Comparisons of total currents based on storm location, polarity, and flash rates derived from highâ€altitude aircraft overflights. Journal of Geophysical Research, 2010, 115, .	3.3	46
28	Kinematic and Microphysical Significance of Lightning Jumps versus Nonjump Increases in Total Flash Rate. Weather and Forecasting, 2017, 32, 275-288.	0.5	45
29	Variability of CONUS Lightning in 2003â€“12 and Associated Impacts. Journal of Applied Meteorology and Climatology, 2015, 54, 15-41.	0.6	44
30	Utilizing Total Lightning Information to Diagnose Convective Trends. Bulletin of the American Meteorological Society, 2010, 91, 167-176.	1.7	42
31	The rarity of terrestrial gamma-ray flashes. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	42
32	Global lightning activity from the ENSO perspective. Geophysical Research Letters, 2008, 35, .	1.5	41
33	Ground detection of terrestrial gamma ray flashes from distant radio signals. Geophysical Research Letters, 2016, 43, 8728-8734.	1.5	41
34	A modeling study of the timeâ€averaged electric currents in the vicinity of isolated thunderstorms. Journal of Geophysical Research, 1992, 97, 11535-11551.	3.3	37
35	A Low-Noise, Microprocessor-Controlled, Internally Digitizing Rotating-Vane Electric Field Mill for Airborne Platforms. Journal of Atmospheric and Oceanic Technology, 2007, 24, 1245-1255.	0.5	36
36	Understanding the Relationships between Lightning, Cloud Microphysics, and Airborne Radar-Derived Storm Structure during Hurricane Karl (2010). Monthly Weather Review, 2014, 142, 590-605.	0.5	32

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37	Gamma Ray Glow Observations at 20â€km Altitude. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7236-7254.	1.2	30
38	New World Meteorological Organization Certified Megaflash Lightning Extremes for Flash Distance (709 km) and Duration (16.73 s) Recorded From Space. Geophysical Research Letters, 2020, 47, e2020GL088888.	1.5	29
39	Intraseasonal Forcing of Convection and Lightning Activity in the Southern Amazon as a Function of Cross-Equatorial Flow. Journal of Climate, 2006, 19, 3180-3196.	1.2	28
40	Highâ€speed video and electromagnetic analysis of two natural bipolar cloudâ€toâ€ground lightning flashes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6105-6127.	1.2	28
41	Electrification life cycle of incipient thunderstorms. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4670-4697.	1.2	24
42	Spectral Observations of Optical Emissions Associated With Terrestrial Gammaâ€Ray Flashes. Geophysical Research Letters, 2021, 48, 2020GL090700.	1.5	24
43	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
44	Baroclinic Instability and the Selection of the Zonal Scale of the Transient Eddies of Middle Latitudes. Journals of the Atmospheric Sciences, 1979, 36, 767-784.	0.6	19
45	Classification of Tropical Oceanic Precipitation using High-Altitude Aircraft Microwave and Electric Field Measurements. Journals of the Atmospheric Sciences, 2006, 63, 218-233.	0.6	17
46	Time-averaged current analysis of a thunderstorm using ground-based measurements. Journal of Geophysical Research, 1994, 99, 10653.	3.3	16
47	Concurrent satellite and ground-based lightning observations from the Optical Lightning Imaging Sensor (ISS-LIS), the low-frequency network Meteorage and the SAETTA Lightning Mapping Array (LMA) in the northwestern Mediterranean region. Atmospheric Measurement Techniques, 2020, 13, 853-875.	1.2	16
48	CHASER: An Innovative Satellite Mission Concept to Measure the Effects of Aerosols on Clouds and Climate. Bulletin of the American Meteorological Society, 2013, 94, 685-694.	1.7	15
49	Cyclone-Scale Forcing of Ultralong Waves. Journals of the Atmospheric Sciences, 1979, 36, 1692-1698.	0.6	13
50	Data Retrieval Algorithms for Validating the Optical Transient Detector and the Lightning Imaging Sensor. Journal of Atmospheric and Oceanic Technology, 2000, 17, 279-297.	0.5	11
51	A Random Forest Method to Forecast Downbursts Based on Dual-Polarization Radar Signatures. Remote Sensing, 2019, 11, 826.	1.8	11
52	The Altus Cumulus Electrification Study (ACES): A UAV-Based Science Demonstration. , 2002, , .		10
53	Observations of Lightning NO_x Production From GOESâ€R Post Launch Test Field Campaign Flights. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033769.	1.2	9
54	Ground level measurements of air conductivities under Florida thunderstorms. Journal of Geophysical Research, 1992, 97, 12947-12951.	3.3	7

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55	Radiation impedance over a thunderstorm. Radio Science, 2006, 41, n/a-n/a.	0.8	5
56	Comment on â€œCurrent budget of the atmospheric electric global circuitâ€•by Heinz W. Kasemir. Journal of Geophysical Research, 1996, 101, 17037-17040.	3.3	4
57	Characterizing the GOES-R (GOES-16) Geostationary Lightning Mapper (GLM) on-orbit performance. , 2017, , .		3
58	Lightning activity following the return stroke. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8329-8339.	1.2	2
59	C-band Dual-Polarization Radar Signatures of Wet Downbursts around Cape Canaveral, Florida. Weather and Forecasting, 2019, 34, 103-131.	0.5	2
60	The Effect of the Meridional Circulation on the Baroclinic Instability of the Winter Zonal Flow. Journals of the Atmospheric Sciences, 1978, 35, 2368-2372.	0.6	1
61	Detailed observations of lightning flashes and processes associated with terrestrial gamma ray flashes. , 2011, , .		0