

Yijun Zhang

List of Publications by Year in descending order

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77
papers

1,440
citations

331259

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docs citations

77
times ranked

664
citing authors

#	ARTICLE	IF	CITATIONS
1	Lightning attachment process involving connection of the downward negative leader to the lateral surface of the upward connecting leader. <i>Geophysical Research Letters</i> , 2013, 40, 5531-5535.	1.5	72
2	Performance Evaluation for a Lightning Location System Based on Observations of Artificially Triggered Lightning and Natural Lightning Flashes. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012, 29, 1835-1844.	0.5	59
3	The possible charge structure of thunderstorm and lightning discharges in northeastern verge of Qinghaiâ€”Tibetan Plateau. <i>Atmospheric Research</i> , 2005, 76, 231-246.	1.8	57
4	Experiments of artificially triggered lightning and its application in Conghua, Guangdong, China. <i>Atmospheric Research</i> , 2014, 135-136, 330-343.	1.8	51
5	Two associated upward lightning flashes that produced opposite polarity electric field changes. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	48
6	Characteristics of unconnected upward leaders initiated from tall structures observed in Guangzhou. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
7	Low-frequency E-field Detection Array (LFEDA)â€™ Construction and preliminary results. <i>Science China Earth Sciences</i> , 2017, 60, 1896-1908.	2.3	48
8	Relationship between lightning activity and tropical cyclone intensity over the northwest Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4072-4089.	1.2	44
9	Experiment of artificially triggering lightning in China. <i>Journal of Geophysical Research</i> , 1994, 99, 10727.	3.3	42
10	Climatological Comparison of Small- and Large-Current Cloud-to-Ground Lightning Flashes over Southern China. <i>Journal of Climate</i> , 2016, 29, 2831-2848.	1.2	40
11	Lightning Distribution and Eyewall Outbreaks in Tropical Cyclones during Landfall. <i>Monthly Weather Review</i> , 2012, 140, 3573-3586.	0.5	39
12	Understanding the dynamical-microphysical-electrical processes associated with severe thunderstorms over the Beijing metropolitan region. <i>Science China Earth Sciences</i> , 2021, 64, 10-26.	2.3	35
13	A New Method of Threeâ€”Dimensional Location for Lowâ€”Frequency Electric Field Detection Array. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8792-8812.	1.2	30
14	Application of Ensemble Empirical Mode Decomposition in Low-Frequency Lightning Electric Field Signal Analysis and Lightning Location. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 86-100.	2.7	29
15	Characteristics of the initial stage and return stroke currents of rocketâ€”triggered lightning flashes in southern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6431-6452.	1.2	27
16	Characteristics of return stroke currents of classical and altitude triggered lightning in GCOELD in China. <i>Atmospheric Research</i> , 2013, 129-130, 67-78.	1.8	26
17	Characteristics and correlation of return stroke, M component and continuing current for triggered lightning. <i>Electric Power Systems Research</i> , 2016, 139, 10-15.	2.1	26
18	Observations of the initial stage of a rocketâ€”andâ€”wireâ€”triggered lightning discharge. <i>Geophysical Research Letters</i> , 2017, 44, 4332-4340.	1.5	26

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19	A comparison of the characteristics of total and cloud-to-ground lightning activities in hailstorms. <i>Journal of Meteorological Research</i> , 2013, 27, 282-293.	1.0	25
20	Spatial-temporal characteristics of lightning flash size in a supercell storm. <i>Atmospheric Research</i> , 2017, 197, 201-210.	1.8	25
21	Charge structures and cloud-to-ground lightning discharges characteristics in two supercell thunderstorms. <i>Science Bulletin</i> , 2006, 51, 198-212.	1.7	22
22	Lightning climatology over the northwest Pacific region: An 11-year study using data from the World Wide Lightning Location Network. <i>Atmospheric Research</i> , 2018, 210, 41-57.	1.8	22
23	A Review of Atmospheric Electricity Research in China from 2011 to 2018. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 994-1014.	1.9	22
24	Lightning activity and electrical structure in a thunderstorm that continued for more than 24h. <i>Atmospheric Research</i> , 2010, 97, 241-256.	1.8	21
25	Influence of the Ground Potential Rise on the Residual Voltage of Low-Voltage Surge Protective Devices due to Nearby Lightning Flashes. <i>IEEE Transactions on Power Delivery</i> , 2016, 31, 596-604.	2.9	21
26	Synchronized Two-Station Optical and Electric Field Observations of Multiple Upward Lightning Flashes Triggered by a 310 kA +CG Flash. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1050-1063.	1.2	21
27	Optical progression characteristics of an interesting natural downward bipolar lightning flash. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 708-715.	1.2	20
28	Three-dimensional propagation characteristics of the leaders in the attachment process of a downward negative lightning flash. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 136, 23-30.	0.6	20
29	A Method of Three-Dimensional Location for LFEDA Combining the Time of Arrival Method and the Time Reversal Technique. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6484-6500.	1.2	20
30	Analysis and comparison of initial breakdown pulses for positive cloud-to-ground flashes observed in Beijing and Guangzhou. <i>Atmospheric Research</i> , 2013, 129-130, 34-41.	1.8	19
31	Influence of the Canton Tower on the cloud-to-ground lightning in its vicinity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5943-5954.	1.2	18
32	Properties of Negative Initial Leaders and Lightning Flash Size in a Cluster of Supercells. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,857.	1.2	18
33	Characteristics of Electromagnetic Signals During the Initial Stage of Negative Rocket-Triggered Lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,625.	1.2	18
34	Attention-Based Dual-Source Spatiotemporal Neural Network for Lightning Forecast. <i>IEEE Access</i> , 2019, 7, 158296-158307.	2.6	18
35	Review of Chinese atmospheric science research over the past 70 years: Atmospheric physics and atmospheric environment. <i>Science China Earth Sciences</i> , 2019, 62, 1903-1945.	2.3	18
36	Polarity inverted intracloud discharges and electric charge structure of thunderstorm. <i>Science Bulletin</i> , 2002, 47, 1725-1729.	1.7	17

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37	Impact of the vertical velocity field on charging processes and charge separation in a simulated thunderstorm. <i>Journal of Meteorological Research</i> , 2015, 29, 328-343.	0.9	17
38	Simulation of the electrification of a tropical cyclone using the WRF-ARW model: An idealized case. <i>Journal of Meteorological Research</i> , 2014, 28, 453-468.	0.9	15
39	Characteristics of cloud-to-ground lightning strikes in the stratiform regions of mesoscale convective systems. <i>Atmospheric Research</i> , 2016, 178-179, 207-216.	1.8	15
40	Initial Leader Properties During the Preliminary Breakdown Processes of Lightning Flashes and Their Associations With Initiation Positions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8025-8042.	1.2	15
41	FY-4A LMI Observed Lightning Activity in Super Typhoon Mangkhut (2018) in Comparison with WWLLN Data. <i>Journal of Meteorological Research</i> , 2020, 34, 336-352.	0.9	14
42	Spatial and temporal characteristics of VHF radiation source produced by lightning in supercell thunderstorms. <i>Science Bulletin</i> , 2004, 49, 624.	1.7	13
43	Advances in Lightning Monitoring and Location Technology Research in China. <i>Remote Sensing</i> , 2022, 14, 1293.	1.8	13
44	Experiments on lightning protection for automatic weather stations using artificially triggered lightning. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2013, 8, 313-321.	0.8	12
45	The role of dynamic transport in the formation of the inverted charge structure in a simulated hailstorm. <i>Science China Earth Sciences</i> , 2016, 59, 1414-1426.	2.3	12
46	Simultaneous optical and electrical observations of "chaotic" leaders preceding subsequent return strokes. <i>Atmospheric Research</i> , 2016, 170, 131-139.	1.8	12
47	Evolution of the Charge Structure and Lightning Discharge Characteristics of a Qinghai-Tibet Plateau Thunderstorm Dominated by Negative Cloud-to-Ground Flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031129.	1.2	12
48	Inner-core lightning outbreaks and convective evolution in Super Typhoon Haiyan (2013). <i>Atmospheric Research</i> , 2019, 219, 123-139.	1.8	11
49	Measurements of Magnetic Pulse Bursts During Initial Continuous Current of Negative Rocket-Triggered Lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11710-11721.	1.2	11
50	Preliminary breakdown, following lightning discharge processes and lower positive charge region. <i>Atmospheric Research</i> , 2015, 161-162, 52-56.	1.8	10
51	Characteristics of Lightning Flashes Associated With the Charge Layer Near the 0°C Isotherm in the Stratiform Region of Mesoscale convective Systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9524-9541.	1.2	10
52	Characteristics of a multi-stroke "bolt from the blue" lightning-type that caused a fatal disaster. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 1425-1442.	2.0	9
53	Fast and Fine Location of Total Lightning from Low Frequency Signals Based on Deep-Learning Encoding Features. <i>Remote Sensing</i> , 2021, 13, 2212.	1.8	9
54	Characterizing Radio Frequency Magnetic Radiation of Initial Upward Leader Stepping in Triggered Lightning With Interferometric Lightning Mapping. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089392.	1.5	9

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55	Radar Reflectivity of Lightning Flashes in Stratiform Regions of Mesoscale Convective Systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 14114-14132.	1.2	8
56	Semi-idealized modeling of lightning initiation related to vertical air motion and cloud microphysics. <i>Journal of Meteorological Research</i> , 2017, 31, 976-986.	0.9	7
57	Lightning Characteristics and Electric Charge Structure of a Hail-Producing Thunderstorm on the Eastern Qinghai-Tibetan Plateau. <i>Atmosphere</i> , 2018, 9, 295.	1.0	7
58	Numerical Simulation of the Formation of a Large Lower Positive Charge Center in a Tibetan Plateau Thunderstorm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9561-9593.	1.2	7
59	Transient Response of Surge Protective Devices During the Potentials Transferred Between Independent Grounding Grids. <i>IEEE Transactions on Power Delivery</i> , 2020, 35, 630-638.	2.9	7
60	Lightning and deep convective activities over the Tibetan Plateau. <i>National Science Review</i> , 2020, 7, 487-488.	4.6	7
61	Quantifying the contribution of tropical cyclones to lightning activity over the Northwest Pacific. <i>Atmospheric Research</i> , 2020, 239, 104906.	1.8	7
62	Application of Lightning Data Assimilation to Numerical Forecast of Super Typhoon Haiyan (2013). <i>Journal of Meteorological Research</i> , 2020, 34, 1052-1067.	0.9	6
63	Lightning activity and its associations with cloud structures in a rainstorm dominated by warm precipitation. <i>Atmospheric Research</i> , 2020, 246, 105120.	1.8	6
64	On the Transition From Precursors to the Initial Upward Positive Leader in Negative Rocket-Triggered Lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033926.	1.2	6
65	Turbulence Characteristics of Thunderstorms Before the First Flash in Comparison to Non-Thunderstorms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094821.	1.5	6
66	Optical and electrical observations of an abnormal triggered lightning event with two upward propagations. <i>Journal of Meteorological Research</i> , 2012, 26, 529-540.	1.0	5
67	Characteristics of Two Ground Grid Potentials After a Triggered Lightning Stroke. <i>IEEE Access</i> , 2020, 8, 171001-171008.	2.6	5
68	Vertical reflectivity structures near lightning flashes in the stratiform regions of mesoscale convective systems. <i>Atmospheric Research</i> , 2020, 242, 104961.	1.8	4
69	Evolution Characteristics during Initial Stage of Triggered Lightning Based on Directly Measured Current. <i>Atmosphere</i> , 2020, 11, 658.	1.0	3
70	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
71	Association of lightning occurrence with precipitation cloud column structure at a fixed position. <i>Atmospheric Research</i> , 2022, 267, 105989.	1.8	3
72	LightNet+: A dual-source lightning forecasting network with bi-direction spatiotemporal transformation. <i>Applied Intelligence</i> , 2022, 52, 11147-11159.	3.3	3

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73	Return-stroke current measurement at the Canton Tower and preliminary analysis results. <i>Electric Power Systems Research</i> , 2022, 206, 107798.	2.1	3
74	Thunderstorm Activity over the Qinghai-Tibet Plateau Indicated by the Combined Data of the FY-2E Geostationary Satellite and WWLLN. <i>Remote Sensing</i> , 2022, 14, 2855.	1.8	3
75	Characteristics of Negative Leader Propagation Area of Lightning Flashes Initiated in the Stratiform Regions of Mesoscale Convective Systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033336.	1.2	1
76	A study on the response characteristics of adjacent grounding grids under artificially triggered lightning strokes. <i>Electric Power Systems Research</i> , 2021, 197, 107304.	2.1	1
77	Characteristics of Regions with High-Density Initiation of Flashes in Mesoscale Convective Systems. <i>Remote Sensing</i> , 2022, 14, 1193.	1.8	1