

# Yijun Zhang

## List of Publications by Year in descending order

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77  
papers

1,440  
citations

331538

21  
h-index

414303

32  
g-index

77  
all docs

77  
docs citations

77  
times ranked

664  
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  | Association of lightning occurrence with precipitation cloud column structure at a fixed position. <i>Atmospheric Research</i> , 2022, 267, 105989.  | 1.8 | 3         |
| 3  | LightNet+: A dual-source lightning forecasting network with bi-direction spatiotemporal transformation. <i>Applied Intelligence</i> , 2022, 52, 11147-11159.   | 3.3 | 3         |
| 4  | Return-stroke current measurement at the Canton Tower and preliminary analysis results. <i>Electric Power Systems Research</i> , 2022, 206, 107798.  | 2.1 | 3         |
| 5  | Characteristics of Regions with High-Density Initiation of Flashes in Mesoscale Convective Systems. <i>Remote Sensing</i> , 2022, 14, 1193.  | 1.8 | 1         |
| 6  | Advances in Lightning Monitoring and Location Technology Research in China. <i>Remote Sensing</i> , 2022, 14, 1293.  | 1.8 | 13        |
| 7  | 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         |
| 8  | 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        |
| 9  | 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        |
| 10 | 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         |
| 11 | 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         |
| 12 | 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         |
| 13 | 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         |
| 14 | Turbulence Characteristics of Thunderstorms Before the First Flash in Comparison to Non-Triggered Thunderstorms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094821.  | 1.5 | 6         |
| 15 | 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         |
| 16 | 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        |
| 17 | Characteristics of Two Ground Grid Potentials After a Triggered Lightning Stroke. <i>IEEE Access</i> , 2020, 8, 171001-171008.   | 2.6 | 5         |
| 18 | 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         |

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|----|---|-----|-----------|
| 19 | Vertical reflectivity structures near lightning flashes in the stratiform regions of mesoscale convective systems. <i>Atmospheric Research</i> , 2020, 242, 104961.   | 1.8 | 4         |
| 20 | 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        |
| 21 | Lightning and deep convective activities over the Tibetan Plateau. <i>National Science Review</i> , 2020, 7, 487-488.   | 4.6 | 7         |
| 22 | Evolution Characteristics during Initial Stage of Triggered Lightning Based on Directly Measured Current. <i>Atmosphere</i> , 2020, 11, 658.  | 1.0 | 3         |
| 23 | 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         |
| 24 | Quantifying the contribution of tropical cyclones to lightning activity over the Northwest Pacific. <i>Atmospheric Research</i> , 2020, 239, 104906.  | 1.8 | 7         |
| 25 | 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         |
| 26 | 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        |
| 27 | Characteristics of a multi-stroke lightning from the blue lightning-type that caused a fatal disaster. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 1425-1442.  | 2.0 | 9         |
| 28 | 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        |
| 29 | 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         |
| 30 | 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        |
| 31 | Inner-core lightning outbreaks and convective evolution in Super Typhoon Haiyan (2013). <i>Atmospheric Research</i> , 2019, 219, 123-139.   | 1.8 | 11        |
| 32 | 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        |
| 33 | Attention-Based Dual-Source Spatiotemporal Neural Network for Lightning Forecast. <i>IEEE Access</i> , 2019, 7, 158296-158307.  | 2.6 | 18        |
| 34 | 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        |
| 35 | 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         |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | 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        |
| 38 | 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        |
| 39 | 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         |
| 40 | 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        |
| 41 | A New Method of Three-Dimensional Location for Low-Frequency Electric Field Detection Array. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8792-8812.  | 1.2 | 30        |
| 42 | 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        |
| 43 | Observations of the initial stage of a rocket-and-wire-triggered lightning discharge. <i>Geophysical Research Letters</i> , 2017, 44, 4332-4340.  | 1.5 | 26        |
| 44 | Spatial-temporal characteristics of lightning flash size in a supercell storm. <i>Atmospheric Research</i> , 2017, 197, 201-210.  | 1.8 | 25        |
| 45 | Characteristics of the initial stage and return stroke currents of rocket-triggered lightning flashes in southern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6431-6452.                              | 1.2 | 27        |
| 46 | Low-frequency E-field Detection Array (LFEDA) Construction and preliminary results. <i>Science China Earth Sciences</i> , 2017, 60, 1896-1908.  | 2.3 | 48        |
| 47 | 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         |
| 48 | 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        |
| 49 | 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        |
| 50 | 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        |
| 51 | 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        |
| 52 | 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        |
| 53 | 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        |
| 54 | Simultaneous optical and electrical observations of chaotic leaders preceding subsequent return strokes. <i>Atmospheric Research</i> , 2016, 170, 131-139.  | 1.8 | 12        |

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|----|---|-----|-----------|
| 55 | 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        |
| 56 | 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        |
| 57 | 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        |
| 58 | Preliminary breakdown, following lightning discharge processes and lower positive charge region. <i>Atmospheric Research</i> , 2015, 161-162, 52-56.  | 1.8 | 10        |
| 59 | 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        |
| 60 | Experiments of artificially triggered lightning and its application in Conghua, Guangdong, China. <i>Atmospheric Research</i> , 2014, 135-136, 330-343.   | 1.8 | 51        |
| 61 | 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        |
| 62 | 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        |
| 63 | 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        |
| 64 | 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        |
| 65 | 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        |
| 66 | 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        |
| 67 | 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        |
| 68 | Lightning Distribution and Eyewall Outbreaks in Tropical Cyclones during Landfall. <i>Monthly Weather Review</i> , 2012, 140, 3573-3586.  | 0.5 | 39        |
| 69 | 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         |
| 70 | Characteristics of unconnected upward leaders initiated from tall structures observed in Guangzhou. <i>Journal of Geophysical Research</i> , 2012, 117, .   | 3.3 | 48        |
| 71 | 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        |
| 72 | Two associated upward lightning flashes that produced opposite polarity electric field changes. <i>Geophysical Research Letters</i> , 2009, 36, .   | 1.5 | 48        |

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|----|---|-----|-----------|
| 73 | Charge structures and cloud-to-ground lightning discharge characteristics in two supercell thunderstorms. <i>Science Bulletin</i> , 2006, 51, 198-212.                      | 1.7 | 22        |
| 74 | 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        |
| 75 | Spatial and temporal characteristics of VHF radiation source produced by lightning in supercell thunderstorms. <i>Science Bulletin</i> , 2004, 49, 624.                     | 1.7 | 13        |
| 76 | Polarity inverted intracloud discharges and electric charge structure of thunderstorm. <i>Science Bulletin</i> , 2002, 47, 1725-1729.                                       | 1.7 | 17        |
| 77 | Experiment of artificially triggering lightning in China. <i>Journal of Geophysical Research</i> , 1994, 99, 10727.   | 3.3 | 42        |