

Amitabh Nag

List of Publications by Year in descending order

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48
papers

1,425
citations

331670

21
h-index

330143

37
g-index

49
all docs

49
docs citations

49
times ranked

910
citing authors

#	ARTICLE	IF	CITATIONS
1	Lightning locating systems: Insights on characteristics and validation techniques. Earth and Space Science, 2015, 2, 65-93.	2.6	148
2	Some inferences on the role of lower positive charge region in facilitating different types of lightning. Geophysical Research Letters, 2009, 36, .	4.0	100
3	Positive lightning: An overview, new observations, and inferences. Journal of Geophysical Research, 2012, 117, .	3.3	92
4	On phenomenology of compact intracloud lightning discharges. Journal of Geophysical Research, 2010, 115, .	3.3	86
5	Pulse trains that are characteristic of preliminary breakdown in cloud-to-ground lightning but are not followed by return stroke pulses. Journal of Geophysical Research, 2008, 113, .	3.3	83
6	Evaluation of U.S. National Lightning Detection Network performance characteristics using rocket-triggered lightning data acquired in 2004-2009. Journal of Geophysical Research, 2011, 116, .	3.3	75
7	Ground-level observation of a terrestrial gamma ray flash initiated by a triggered lightning. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6511-6533.	3.3	74
8	Analysis of microsecond- and submicrosecond-scale electric field pulses produced by cloud and ground lightning discharges. Atmospheric Research, 2009, 91, 316-325.	4.1	66
9	Compact intracloud lightning discharges: 1. Mechanism of electromagnetic radiation and modeling. Journal of Geophysical Research, 2010, 115, .	3.3	62
10	Performance characteristics of the NLDN for return strokes and pulses superimposed on steady currents, based on rocket-triggered lightning data acquired in Florida in 2004-2012. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3825-3856.	3.3	60
11	A terrestrial gamma-ray flash recorded at the Lightning Observatory in Gainesville, Florida. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 136, 86-93.	1.6	59
12	Electric Field Pulse Trains Occurring Prior to the First Stroke in Negative Cloud-to-Ground Lightning. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 147-150.	2.2	43
13	Lightning Observatory in Gainesville (LOG), Florida: A review of recent results. Electric Power Systems Research, 2014, 113, 95-103.	3.6	38
14	A study of National Lightning Detection Network responses to natural lightning based on ground truth data acquired at LOG with emphasis on cloud discharge activity. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,651.	3.3	36
15	First versus subsequent return-stroke current and field peaks in negative cloud-to-ground lightning discharges. Journal of Geophysical Research, 2008, 113, .	3.3	35
16	Compact intracloud lightning discharges: 2. Estimation of electrical parameters. Journal of Geophysical Research, 2010, 115, .	3.3	30
17	Evaluation of the GLD360 performance characteristics using rocket-and-wire triggered lightning data. Geophysical Research Letters, 2014, 41, 3636-3642.	4.0	30
18	Characteristics of Radio Emissions Associated With Terrestrial Gamma-Ray Flashes. Journal of Geophysical Research: Space Physics, 2018, 123, 5933-5948.	2.4	26

#	ARTICLE	IF	CITATIONS
19	Negative first stroke leader characteristics in cloud-to-ground lightning over land and ocean. Geophysical Research Letters, 2017, 44, 1973-1980.	4.0	24
20	Characteristics of the initial rising portion of near and far lightning return stroke electric field waveforms. Atmospheric Research, 2012, 117, 71-77.	4.1	22
21	Parameters of Electric Field Waveforms Produced by Positive Lightning Return Strokes. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 932-939.	2.2	22
22	A unified engineering model of the first stroke in downward negative lightning. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2188-2204.	3.3	22
23	Remote Measurements of Currents in Cloud Lightning Discharges. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 407-413.	2.2	21
24	First Observations of Gigantic Jets From Geostationary Orbit. Geophysical Research Letters, 2019, 46, 3999-4006.	4.0	20
25	Characteristics of Currents in Upward Lightning Flashes Initiated From the Gaisberg Tower. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 705-718.	2.2	18
26	Electromagnetic Pulses Produced by Bouncing-Wave-Type Lightning Discharges. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 466-470.	2.2	17
27	Gamma-Ray and Radio-Frequency Radiation from Thunderstorms Observed from Space and Ground. Scientific Reports, 2020, 10, 7286.	3.3	15
28	Positive Lightning Peak Currents Reported by the U.S. National Lightning Detection Network. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 404-412.	2.2	14
29	Objective Airport Warnings over Small Areas Using NLDN Cloud and Cloud-to-Ground Lightning Data. Weather and Forecasting, 2016, 31, 1061-1069.	1.4	14
30	Scaling of conventional breakdown threshold: Impact for predictions of lightning and TLEs on Earth, Venus, and Mars. Icarus, 2020, 338, 113506.	2.5	13
31	Numerical simulations of compact intracloud discharges as the Relativistic Runaway Electron Avalanche-Extensive Air Shower process. Journal of Geophysical Research: Space Physics, 2014, 119, 479-489.	2.4	10
32	Vertical Temperature Profile of Natural Lightning Return Strokes Derived From Optical Spectra. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034438.	3.3	10
33	High-Speed Video Observation of a Dart Leader Producing X-rays. Journal of Geophysical Research: Space Physics, 2019, 124, 10564-10570.	2.4	8
34	Insights on Space Leader Characteristics and Evolution in Natural Negative Cloud-to-Ground Lightning. Geophysical Research Letters, 2021, 48, e2021GL093614.	4.0	7
35	Inferences on upward leader characteristics from measured currents. Atmospheric Research, 2021, 251, 105420.	4.1	6
36	NLDN responses to rocket-triggered lightning at Camp Blanding, Florida, in 2004-2009. , 2010, , .		3

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37	A transmission-line-type model for lightning return strokes with branches. Electric Power Systems Research, 2015, 118, 3-7.	3.6	3
38	Current and Electric Field Changes Associated with the Initial Stage of Upward Lightning. , 2018, , .		3
39	Magnetic Field Risetimes of Negative Lightning First Return Strokes Over Land and Ocean. Geophysical Research Letters, 2018, 45, 13,133.	4.0	2
40	Characterization of Electric Field Pulses Produced by Cloud and Ground Lightning Discharges. , 2007, , .		1
41	An experimental study of electric field pulses produced by cloud and ground lightning discharges. , 2008, , .		1
42	Lightning discharges producing very strong radiation in both VLF-LF and HF-VHF ranges. , 2009, , .		1
43	Characteristics of the initial rising portion of near and far lightning return stroke electric field waveforms. , 2010, , .		1
44	Measurements of radiation field signatures of rocket-triggered lightning. , 2010, , .		1
45	Lightning Observatory in Gainesville (LOG), Florida: A review of recent results. , 2012, , .		1
46	Characterization of positive cloud-to-ground Lightning Discharges. , 2010, , .		0
47	Fine structure of electric field waveforms recorded at near and far distances from the lightning channel. , 2010, , .		0
48	Occurrence characteristics of upward lightning at the Gaisberg tower. Elektrotechnik Und Informationstechnik, 0, , .	1.1	0