

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	Inferences on upward leader characteristics from measured currents. Atmospheric Research, 2021, 251, 105420.	4.1	6
2	Vertical Temperature Profile of Natural Lightning Return Strokes Derived From Optical Spectra. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034438.	3.3	10
3	Insights on Spaceâ€Leader Characteristics and Evolution in Natural Negative Cloudâ€toâ€Ground Lightning. Geophysical Research Letters, 2021, 48, e2021GL093614.	4.0	7
4	Scaling of conventional breakdown threshold: Impact for predictions of lightning and TLEs on Earth, Venus, and Mars. Icarus, 2020, 338, 113506.	2.5	13
5	Gamma-Ray and Radio-Frequency Radiation from Thunderstorms Observed from Space and Ground. Scientific Reports, 2020, 10, 7286.	3.3	15
6	Highâ€Speed Video Observation of a Dart Leader Producing Xâ€rays. Journal of Geophysical Research: Space Physics, 2019, 124, 10564-10570.	2.4	8
7	Characteristics of Currents in Upward Lightning Flashes Initiated From the Gaisberg Tower. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 705-718.	2.2	18
8	First Observations of Gigantic Jets From Geostationary Orbit. Geophysical Research Letters, 2019, 46, 3999-4006.	4.0	20
9	Current and Electric Field Changes Associated with the Initial Stage of Upward Lightning. , 2018, , .		3
10	Magnetic Field Risetimes of Negative Lightning First Return Strokes Over Land and Ocean. Geophysical Research Letters, 2018, 45, 13,133.	4.0	2
11	Characteristics of Radio Emissions Associated With Terrestrial Gammaâ€Ray Flashes. Journal of Geophysical Research: Space Physics, 2018, 123, 5933-5948.	2.4	26
12	Negative first stroke leader characteristics in cloudâ€toâ€ground lightning over land and ocean. Geophysical Research Letters, 2017, 44, 1973-1980.	4.0	24
13	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
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	Groundâ€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
16	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
17	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
18	Lightning locating systems: Insights on characteristics and validation techniques. Earth and Space Science, 2015, 2, 65-93.	2.6	148

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19	A transmission-line-type model for lightning return strokes with branches. Electric Power Systems Research, 2015, 118, 3-7.	3.6	3
20	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
21	Lightning Observatory in Gainesville (LOG), Florida: A review of recent results. Electric Power Systems Research, 2014, 113, 95-103.	3.6	38
22	Parameters of Electric Field Waveforms Produced by Positive Lightning Return Strokes. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 932-939.	2.2	22
23	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
24	Evaluation of the GLD360 performance characteristics using rocket and wire triggered lightning data. Geophysical Research Letters, 2014, 41, 3636-3642.	4.0	30
25	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
26	Lightning Observatory in Gainesville (LOG), Florida: A review of recent results. , 2012, , .		1
27	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
28	Positive lightning: An overview, new observations, and inferences. Journal of Geophysical Research, 2012, 117, .	3.3	92
29	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
30	Remote Measurements of Currents in Cloud Lightning Discharges. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 407-413.	2.2	21
31	Characteristics of the initial rising portion of near and far lightning return stroke electric field waveforms. , 2010, , .		1
32	NLDN responses to rocket-triggered lightning at Camp Blanding, Florida, in 2004-2009. , 2010, , .		3
33	Characterization of positive cloud-to-ground Lightning Discharges. , 2010, , .		0
34	Fine structure of electric field waveforms recorded at near and far distances from the lightning channel. , 2010, , .		0
35	On phenomenology of compact intracloud lightning discharges. Journal of Geophysical Research, 2010, 115, .	3.3	86
36	Compact intracloud lightning discharges: 1. Mechanism of electromagnetic radiation and modeling. Journal of Geophysical Research, 2010, 115, .	3.3	62

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37	Compact intracloud lightning discharges: 2. Estimation of electrical parameters. Journal of Geophysical Research, 2010, 115, .	3.3	30
38	Measurements of radiation field signatures of rocket-triggered lightning. , 2010, , .		1
39	Electromagnetic Pulses Produced by Bouncing-Wave-Type Lightning Discharges. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 466-470.	2.2	17
40	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
41	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
42	Lightning discharges producing very strong radiation in both VLF-LF and HF-VHF ranges. , 2009, , .		1
43	Some inferences on the role of lower positive charge region in facilitating different types of lightning. Geophysical Research Letters, 2009, 36, .	4.0	100
44	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
45	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
46	An experimental study of electric field pulses produced by cloud and ground lightning discharges. , 2008, , .		1
47	Characterization of Electric Field Pulses Produced by Cloud and Ground Lightning Discharges. , 2007, , .		1
48	Occurrence characteristics of upward lightning at the Gaisberg tower. Elektrotechnik Und Informationstechnik, 0, , .	1.1	0