

Paul Krehbiel

List of Publications by Year in descending order

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66
papers

5,724
citations

116194

36
h-index

124990

64
g-index

73
all docs

73
docs citations

73
times ranked

1603
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	Initiation of lightning flashes simultaneously observed from space and the ground: Narrow bipolar events. <i>Atmospheric Research</i> , 2022, 268, 105981.	1.8	9
3	Secondary Fast Breakdown in Narrow Bipolar Events. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
4	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
5	Dartâ€Leader and Kâ€Leader Velocity From Initiation Site to Termination Timeâ€Resolved With 3D Interferometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034309.	1.2	20
6	3D Total Lightning Observation Network in Tokyo Metropolitan Area (Tokyo LMA). <i>Journal of Disaster Research</i> , 2021, 16, 778-785.	0.4	2
7	A Distinct Class of High Peakâ€Current Lightning Pulses Over Mountainous Terrain in Thunderstorms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094153.	1.5	5
8	Timing Calibration and Windowing Technique Comparison for Lightning Mapping Arrays. <i>Earth and Space Science</i> , 2021, 8, e2020EA001523.	1.1	0
9	A New Method for Connecting the Radiation Sources of Lightning Discharge Extension Channels. <i>Earth and Space Science</i> , 2021, 8, e2021EA001713.	1.1	4
10	Electrostatic Conditions That Produce Fast Breakdown in Thunderstorms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034829.	1.2	8
11	Radio Interferometer Observations of an Energetic inâ€Cloud Pulse Reveal Large Currents Generated by Relativistic Discharges. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032603.	1.2	29
12	Observations of the Origin of Downward Terrestrial Gammaâ€Ray Flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031940.	1.2	39
13	Determining Electric Fields in Thunderclouds With the Radiotelescope LOFAR. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031433.	1.2	8
14	The Plasma Nature of Lightning Channels and the Resulting Nonlinear Resistance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9442-9463.	1.2	24
15	Griffiths and Phelps Lightning Initiation Model, Revisited. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8076-8094.	1.2	19
16	Understanding the Radio Spectrum of Thunderstorm Narrow Bipolar Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10134-10153.	1.2	32
17	Fast negative breakdown in thunderstorms. <i>Nature Communications</i> , 2019, 10, 1648.	5.8	68
18	SAETTA: high-resolution 3-D mapping of the total lightning activity in the Mediterranean Basin over Corsica, with a focus on a mesoscale convective system event. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5765-5790.	1.2	16

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19	Very High Frequency Radio Emissions Associated With the Production of Terrestrial Gamma-Ray Flashes. <i>Geophysical Research Letters</i> , 2018, 45, 2097-2105.	1.5	26
20	Leader Polarity Reversal Feature and Charge Structure of Three Upward Bipolar Lightning Flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9430-9442.	1.2	14
21	Gamma Ray Showers Observed at Ground Level in Coincidence With Downward Lightning Leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6864-6879.	1.2	58
22	Characteristics of Radio Emissions Associated With Terrestrial Gamma-Ray Flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5933-5948.	0.8	26
23	Corona discharges from a windmill and its lightning protection tower in winter thunderstorms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4849-4865.	1.2	11
24	Expanding on the relationship between continuing current and in-cloud leader growth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4150-4164.	1.2	11
25	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
26	Fast positive breakdown in lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8135-8152.	1.2	21
27	Observations of narrow bipolar events reveal how lightning is initiated in thunderstorms. <i>Nature Communications</i> , 2016, 7, 10721.	5.8	182
28	Observations of two sprite-producing storms in Colorado. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9675-9695.	1.2	12
29	Ground detection of terrestrial gamma ray flashes from distant radio signals. <i>Geophysical Research Letters</i> , 2016, 43, 8728-8734.	1.5	41
30	An overview of the lightning and atmospheric electricity observations collected in southern France during the HYdrological cycle in Mediterranean EXperiment (HyMeX), Special Observation Period 1. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 649-669.	1.2	35
31	Environmental controls on storm intensity and charge structure in multiple regions of the continental United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6575-6596.	1.2	83
32	Multiple baseline lightning interferometry - Improving the detection of low amplitude VHF sources. , 2014, , .		16
33	Data processing procedure using distribution of slopes of phase differences for broadband VHF interferometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6085-6104.	1.2	27
34	Continuous broadband digital interferometry of lightning using a generalized cross-correlation algorithm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3134-3165.	1.2	131
35	Rocket-and-wire triggered lightning in 2012 tropical storm Debby in the absence of natural lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13158-13174.	1.2	19
36	Coordinated observations of sprites and in-cloud lightning flash structure. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6607-6632.	1.2	73

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37	VHF lightning mapping observations of a triggered lightning flash. Geophysical Research Letters, 2012, 39, .	1.5	61
38	Geometrical and electrical characteristics of the initial stage in Florida triggered lightning. Geophysical Research Letters, 2012, 39, .	1.5	23
39	Lightning development associated with two negative gigantic jets. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	44
40	Lightning leader stepping, K changes, and other observations near an intracloud flash. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	44
41	Modeling of thundercloud screening charges: Implications for blue and gigantic jets. Journal of Geophysical Research, 2010, 115, .	3.3	67
42	Duration and extent of large electric fields in a thunderstorm anvil cloud after the last lightning. Journal of Geophysical Research, 2010, 115, .	3.3	12
43	Lightning initiation in the anvils of two supercell storms. Geophysical Research Letters, 2009, 36, .	1.5	58
44	Upward electrical discharges from thunderstorms. Nature Geoscience, 2008, 1, 233-237.	5.4	255
45	TELEX The Thunderstorm Electrification and Lightning Experiment. Bulletin of the American Meteorological Society, 2008, 89, 997-1014.	1.7	174
46	Evolving Complex Electrical Structures of the STEPS 25 June 2000 Multicell Storm. Monthly Weather Review, 2008, 136, 741-756.	0.5	45
47	Three-dimensional fractal modeling of intracloud lightning discharge in a New Mexico thunderstorm and comparison with lightning mapping observations. Journal of Geophysical Research, 2007, 112, .	3.3	73
48	Inverted-polarity electrical structures in thunderstorms in the Severe Thunderstorm Electrification and Precipitation Study (STEPS). Atmospheric Research, 2005, 76, 247-271.	1.8	174
49	Observed electric fields associated with lightning initiation. Geophysical Research Letters, 2005, 32, .	1.5	105
50	Initial leader velocities during intracloud lightning: Possible evidence for a runaway breakdown effect. Journal of Geophysical Research, 2005, 110, .	3.3	50
51	The Severe Thunderstorm Electrification and Precipitation Study. Bulletin of the American Meteorological Society, 2004, 85, 1107-1126.	1.7	175
52	Accuracy of the Lightning Mapping Array. Journal of Geophysical Research, 2004, 109, .	3.3	361
53	Observations of VHF source powers radiated by lightning. Geophysical Research Letters, 2001, 28, 143-146.	1.5	178
54	Detection of daytime sprites via a unique sprite ELF signature. Geophysical Research Letters, 2000, 27, 871-874.	1.5	52

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55	Comparison of ground-based 3-dimensional lightning mapping observations with satellite-based LIS observations in Oklahoma. <i>Geophysical Research Letters</i> , 2000, 27, 1703-1706.	1.5	127
56	GPS-based mapping system reveals lightning inside storms. <i>Eos</i> , 2000, 81, 21.	0.1	187
57	A distinct class of isolated intracloud lightning discharges and their associated radio emissions. <i>Journal of Geophysical Research</i> , 1999, 104, 4189-4212.	3.3	208
58	High speed video of initial sprite development. <i>Geophysical Research Letters</i> , 1999, 26, 3201-3204.	1.5	144
59	A GPS-based three-dimensional lightning mapping system: Initial observations in central New Mexico. <i>Geophysical Research Letters</i> , 1999, 26, 3573-3576.	1.5	581
60	The spatial and temporal development of intracloud lightning. <i>Journal of Geophysical Research</i> , 1996, 101, 26641-26668.	3.3	297
61	Radio interferometric observations of cloud-to-ground lightning phenomena in Florida. <i>Journal of Geophysical Research</i> , 1995, 100, 2749.	3.3	229
62	Correlated high-speed video and radio interferometric observations of a cloud-to-ground lightning flash. <i>Journal of Geophysical Research</i> , 1995, 100, 25731.	3.3	71
63	Observations of lightning phenomena using radio interferometry. <i>Journal of Geophysical Research</i> , 1994, 99, 13059.	3.3	147
64	Interferometric observations of a single stroke cloud-to-ground flash. <i>Geophysical Research Letters</i> , 1989, 16, 1169-1172.	1.5	46
65	The electrical structure of the hokuriku winter thunderstorms. <i>Journal of Geophysical Research</i> , 1982, 87, 1207-1215.	3.3	267
66	An analysis of the charge structure of lightning discharges to ground. <i>Journal of Geophysical Research</i> , 1979, 84, 2432-2456.	3.3	332