

Martin A Uman

List of Publications by Year in descending order

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169
papers

9,713
citations

31976

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56724

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170
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170
docs citations

170
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine progression features of return stroke luminosity at the bottom of rocket-triggered lightning channels. <i>Journal of Atmospheric Electricity</i> , 2020, 39, 57-69.	0.3	2
2	High-speed Video and Lightning Mapping Array Observations of In-cloud Lightning Leaders and an M Component to Ground. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1496-1513.	3.3	16
3	Lightning Evolution In Two North Central Florida Summer Multicell Storms and Three Winter/Spring Frontal Storms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1155-1178.	3.3	12
4	Triggered Lightning Return Stroke Luminosity up to 1 km in Two Optical Bands. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9724-9740.	3.3	7
5	Frequency domain analysis of triggered lightning return stroke luminosity velocity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2334-2350.	3.3	10
6	Triggered lightning sky waves, return stroke modeling, and ionosphere effective height. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3507-3527.	3.3	8
7	Evaluation of ENTLN Performance Characteristics Based on the Ground Truth Natural and Rocket-triggered Lightning Data Acquired in Florida. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9858-9866.	3.3	59
8	Do cosmic ray air showers initiate lightning?: A statistical analysis of cosmic ray air showers and lightning mapping array data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8173-8186.	3.3	6
9	Flash propagation and inferred charge structure relative to radar-observed ice alignment signatures in a small Florida mesoscale convective system. <i>Geophysical Research Letters</i> , 2017, 44, 8027-8036.	4.0	15
10	The attachment process of rocket-triggered lightning dart-stepped leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 853-871.	3.3	28
11	Luminosity progression in dart-stepped leader step formation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,612.	3.3	16
12	Luminosity in the initial breakdown stage of cloud-to-ground and intracloud lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1236-1247.	3.3	16
13	Return stroke current reflections in rocket-triggered lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2973-2993.	3.3	0
14	Ground-level observation of a terrestrial gamma ray flash initiated by a triggered lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6511-6533.	3.3	74
15	Initial breakdown and fast leaders in lightning discharges producing long-lasting disturbances of the lower ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5794-5804.	2.4	14
16	Observations of corona in triggered dart-stepped leaders. <i>Geophysical Research Letters</i> , 2015, 42, 1977-1983.	4.0	13
17	The energy spectrum of X-rays from rocket-triggered lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,951.	3.3	6
18	Lightning current and luminosity at and above channel bottom for return strokes and M components. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,645.	3.3	32

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19	Lightning attachment processes of three natural lightning discharges. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,637.	3.3	32
20	Estimation of triggered lightning dart-stepped-leader currents from close multiple-station d <i>E</i> /d <i>t</i> pulse measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1458-1475.	3.3	1
21	Coordinated lightning, balloon-borne electric field, and radar observations of triggered lightning flashes in North Florida. Geophysical Research Letters, 2015, 42, 5635-5643.	4.0	16
22	First images of thunder: Acoustic imaging of triggered lightning. Geophysical Research Letters, 2015, 42, 6051-6057.	4.0	12
23	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
24	Does the lightning current go to zero between ground strokes? Is there a current "cutoff"? Geophysical Research Letters, 2014, 41, 3266-3273.	4.0	13
25	Properties of lightning associated with long recovery early VLF events. , 2014, , .		0
26	An analysis of ELF sferics produced by rocket-triggered lightning. , 2014, , .		0
27	The structure of X-ray emissions from triggered lightning leaders measured by a pinhole-type X-ray camera. Journal of Geophysical Research D: Atmospheres, 2014, 119, 982-1002.	3.3	18
28	The physics of lightning. Physics Reports, 2014, 534, 147-241.	25.6	345
29	Negative leader step mechanisms observed in altitude triggered lightning. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8160-8168.	3.3	34
30	Lightning attachment processes of an "anomalous" triggered lightning discharge. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1524-1533.	3.3	40
31	Rocket-triggered lightning propagation paths relative to preceding natural lightning activity and inferred cloud charge. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,427.	3.3	16
32	Evaluation of the GLD360 performance characteristics using rocket-and-wire triggered lightning data. Geophysical Research Letters, 2014, 41, 3636-3642.	4.0	30
33	Simultaneously measured lightning return stroke channel-base current and luminosity. Geophysical Research Letters, 2014, 41, 7799-7805.	4.0	22
34	Electric field derivative waveforms from dart-stepped-leader steps in triggered lightning. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,844-10,858.	3.3	5
35	Dart-stepped-leader step formation in triggered lightning. Geophysical Research Letters, 2014, 41, 2204-2211.	4.0	38
36	Correlation between the channel-bottom light intensity and channel-base current of a rocket-triggered lightning flash. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,457.	3.3	35

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37	Calibration of the ENTLN against rocket-triggered lightning data. , 2013, , .		6
38	Rocket-and-wire triggered lightning in 2012 tropical storm Debby in the absence of natural lightning. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,158-13,174.	3.3	19
39	Initiation processes of return strokes in rocket-triggered lightning. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9880-9888.	3.3	56
40	Measurement and analysis of ground-level electric fields and wire-base current during the rocket-and-wire lightning triggering process. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,041.	3.3	10
41	Correlated lightning mapping array and radar observations of the initial stages of three sequentially triggered Florida lightning discharges. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8460-8481.	3.3	34
42	An "œanomalous" triggered lightning flash in Florida. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3402-3414.	3.3	7
43	The angular distribution of energetic electron and X-ray emissions from triggered lightning leaders. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,712.	3.3	10
44	Geometrical and electrical characteristics of the initial stage in Florida triggered lightning. Geophysical Research Letters, 2012, 39, .	4.0	23
45	Transient current pulses in rocket-extended wires used to trigger lightning. Journal of Geophysical Research, 2012, 117, .	3.3	20
46	Observation of a gamma-ray flash at ground level in association with a cloud-to-ground lightning return stroke. Journal of Geophysical Research, 2012, 117, .	3.3	66
47	"œChaotic" dart leaders in triggered lightning: Electric fields, X-rays, and source locations. Journal of Geophysical Research, 2012, 117, .	3.3	38
48	The initial stage processes of rocket-and-wire triggered lightning as observed by VHF interferometry. Journal of Geophysical Research, 2012, 117, .	3.3	33
49	Spatial and energy distributions of X-ray emissions from leaders in natural and rocket triggered lightning. Journal of Geophysical Research, 2012, 117, .	3.3	34
50	Current Waveforms for Lightning Simulation. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 880-888.	2.2	71
51	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
52	Measured close lightning leader-step electric field "derivative waveforms. Journal of Geophysical Research, 2011, 116, .	3.3	13
53	Observations of the initial, upward-propagating, positive leader steps in a rocket-and-wire triggered lightning discharge. Geophysical Research Letters, 2011, 38, .	4.0	53
54	Determination of the electric field intensity and space charge density versus height prior to triggered lightning. Journal of Geophysical Research, 2011, 116, .	3.3	28

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55	High-speed video observations of a lightning stepped leader. Journal of Geophysical Research, 2011, 116, .	3.3	116
56	High-speed X-ray images of triggered lightning dart leaders. Journal of Geophysical Research, 2011, 116, .	3.3	37
57	Characteristics of the initial rising portion of near and far lightning return stroke electric field waveforms. , 2010, , .		1
58	Fine structure of electric field waveforms recorded at near and far distances from the lightning channel. , 2010, , .		0
59	Three-dimensional imaging of upward positive leaders in triggered lightning using VHF broadband digital interferometers. Geophysical Research Letters, 2010, 37, .	4.0	62
60	RF and X-ray source locations during the lightning attachment process. Journal of Geophysical Research, 2010, 115, .	3.3	46
61	Return stroke peak current versus charge transfer in rocket-triggered lightning. Journal of Geophysical Research, 2010, 115, .	3.3	21
62	Observations of stepping mechanisms in a rocket-and-wire triggered lightning flash. Journal of Geophysical Research, 2010, 115, .	3.3	89
63	Estimation of the fluence of high-energy electron bursts produced by thunderclouds and the resulting radiation doses received in aircraft. Journal of Geophysical Research, 2010, 115, .	3.3	73
64	High-speed video observations of rocket-and-wire initiated lightning. Geophysical Research Letters, 2009, 36, .	4.0	97
65	Lightning Electromagnetic Field Coupling to Overhead Lines: Theory, Numerical Simulations, and Experimental Validation. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 532-547.	2.2	99
66	Lightning Currents Flowing in the Soil and Entering a Test Power Distribution Line Via Its Grounding. IEEE Transactions on Power Delivery, 2009, 24, 1095-1103.	4.3	26
67	Characterization of return-stroke currents in rocket-triggered lightning. Journal of Geophysical Research, 2009, 114, .	3.3	63
68	Remote measurements of thundercloud electrostatic fields. Journal of Geophysical Research, 2009, 114, .	3.3	27
69	Measured electric and magnetic fields from an unusual cloud-to-ground lightning flash containing two positive strokes followed by four negative strokes. Journal of Geophysical Research, 2009, 114, .	3.3	22
70	Experimental Study of Lightning-Induced Currents in a Buried Loop Conductor and a Grounded Vertical Conductor. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 110-117.	2.2	19
71	Distribution of Currents in the Lightning Protective System of a Residential Building—Part I: Triggered-Lightning Experiments. IEEE Transactions on Power Delivery, 2008, 23, 2439-2446.	4.3	38
72	Co-location of lightning leader x-ray and electric field change sources. Geophysical Research Letters, 2008, 35, .	4.0	58

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73	Electric and magnetic fields and field derivatives from lightning stepped leaders and first return strokes measured at distances from 100 to 1000 m. Journal of Geophysical Research, 2008, 113, .	3.3	22
74	A study of X-ray emission from laboratory sparks in air at atmospheric pressure. Journal of Geophysical Research, 2008, 113, .	3.3	92
75	Measurements of NO _x produced by rocket-triggered lightning. Geophysical Research Letters, 2007, 34, .	4.0	25
76	Lightning-induced currents in a buried loop conductor and a grounded vertical conductor. , 2007, , .		1
77	Insights into the ground attachment process of natural lightning gained from an unusual triggered lightning stroke. Journal of Geophysical Research, 2007, 112, .	3.3	41
78	Direct Lightning Strikes to Test Power Distribution Lines – Part I: Experiment and Overall Results. IEEE Transactions on Power Delivery, 2007, 22, 2236-2244.	4.3	41
79	Direct Lightning Strikes to Test Power Distribution Lines – Part II: Measured and Modeled Current Division Among Multiple Arresters and Grounds. IEEE Transactions on Power Delivery, 2007, 22, 2245-2253.	4.3	25
80	Estimation of input energy in rocket-triggered lightning. Geophysical Research Letters, 2006, 33, .	4.0	33
81	Leader/return-stroke-like processes in the initial stage of rocket-triggered lightning. Journal of Geophysical Research, 2006, 111, .	3.3	18
82	Initial stage in lightning initiated from tall objects and in rocket-triggered lightning. Journal of Geophysical Research, 2005, 110, .	3.3	115
83	X-ray bursts associated with leader steps in cloud-to-ground lightning. Geophysical Research Letters, 2005, 32, .	4.0	168
84	Close electric field signatures of dart leader/return stroke sequences in rocket-triggered lightning showing residual fields. Journal of Geophysical Research, 2005, 110, .	3.3	17
85	X-ray bursts produced by laboratory sparks in air. Geophysical Research Letters, 2005, 32, .	4.0	87
86	An evaluation of the performance characteristics of the U.S. National Lightning Detection Network in Florida using rocket-triggered lightning. Journal of Geophysical Research, 2005, 110, .	3.3	113
87	Electric and magnetic fields from a semi-infinite antenna above a conducting plane. Journal of Electrostatics, 2004, 61, 209-221.	1.9	17
88	Measurements of x-ray emission from rocket-triggered lightning. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	95
89	A ground level gamma-ray burst observed in association with rocket-triggered lightning. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	122
90	A triggered lightning flash containing both negative and positive strokes. Geophysical Research Letters, 2004, 31, .	4.0	20

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91	Observed one-dimensional return stroke propagation speeds in the bottom 170 m of a rocket-triggered lightning channel. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	49
92	Statistical characteristics of the electric and magnetic fields and their time derivatives 15 m and 30 m from triggered lightning. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	46
93	Test of the transmission line model and the traveling current source model with triggered lightning return strokes at very close range. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28
94	Cutoff and reestablishment of current in rocket-triggered lightning. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	45
95	Energetic Radiation Produced During Rocket-Triggered Lightning. <i>Science</i> , 2003, 299, 694-697.	12.6	157
96	A CRITICAL REVIEW OF NONCONVENTIONAL APPROACHES TO LIGHTNING PROTECTION. <i>Bulletin of the American Meteorological Society</i> , 2002, 83, 1809-1820.	3.3	61
97	Electric fields near triggered lightning channels measured with Pockels sensors. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 2-1.	3.3	74
98	Reply to the "Comment on "Return stroke transmission line model for stroke speed near and equal that of light" by R. Thottappillil, J. Schoene, and M.A. Uman" by B. Kordi, R. Moini, and V.A. Rakov. <i>Geophysical Research Letters</i> , 2002, 29, 143-1-143-2.	4.0	12
99	Correlated time derivatives of current, electric field intensity, and magnetic flux density for triggered lightning at 15 m. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 1-1.	3.3	43
100	M-component mode of charge transfer to ground in lightning discharges. <i>Journal of Geophysical Research</i> , 2001, 106, 22817-22831.	3.3	91
101	Return stroke transmission line model for stroke speed near and equal that of light. <i>Geophysical Research Letters</i> , 2001, 28, 3593-3596.	4.0	52
102	Attachment process in rocket-triggered lightning strokes. <i>Journal of Geophysical Research</i> , 1999, 104, 2143-2150.	3.3	97
103	Characterization of the initial stage of negative rocket-triggered lightning. <i>Journal of Geophysical Research</i> , 1999, 104, 4213-4222.	3.3	111
104	Observed leader and return-stroke propagation characteristics in the bottom 400 m of a rocket-triggered lightning channel. <i>Journal of Geophysical Research</i> , 1999, 104, 14369-14376.	3.3	117
105	New insights into lightning processes gained from triggered-lightning experiments in Florida and Alabama. <i>Journal of Geophysical Research</i> , 1998, 103, 14117-14130.	3.3	171
106	Leader properties determined with triggered lightning techniques. <i>Journal of Geophysical Research</i> , 1998, 103, 14109-14115.	3.3	105
107	Triggered-Lightning Experiments at Camp Blanding, Florida (1993-1995). <i>IEEJ Transactions on Power and Energy</i> , 1997, 117, 446-452.	0.2	9
108	Radio Frequency Signals in Jupiter's Atmosphere. <i>Science</i> , 1996, 272, 858-860.	12.6	26

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109	Cloud-to-Ground Lightning: Mechanisms of Damage and Methods of Protection. Seminars in Neurology, 1995, 15, 227-232.	1.4	12
110	Mechanism of the lightning M component. Journal of Geophysical Research, 1995, 100, 25701.	3.3	76
111	Origin of lightning electric field signatures showing two return-stroke waveforms separated in time by a millisecond or less. Journal of Geophysical Research, 1994, 99, 8157.	3.3	43
112	Comparison of lightning return-stroke models. Journal of Geophysical Research, 1993, 98, 22903-22914.	3.3	123
113	Comments on the Photos. Weatherwise, 1993, 45, 19-19.	0.1	0
114	Electric field pulses in K and M changes of lightning ground flashes. Journal of Geophysical Research, 1992, 97, 9935-9950.	3.3	62
115	The Best Lightning Photo I've Ever Seen. Weatherwise, 1991, 44, 8-9.	0.1	3
116	Some properties of negative cloud-to-ground lightning flashes versus stroke order. Journal of Geophysical Research, 1990, 95, 5447-5453.	3.3	115
117	Natural and Artificially Initiated Lightning. Science, 1989, 246, 457-464.	12.6	74
118	Voltages Induced on an Overhead Line by the Lightning Stepped Leader. IEEE Transactions on Electromagnetic Compatibility, 1986, 28, 158-161.	2.2	8
119	Comment on "The rf spectra of first and subsequent lightning return strokes in the 1 to 200 km range" by Serhan et al.. Radio Science, 1985, 20, 143-145.	1.6	8
120	Lightning Induced Voltages on Power Lines: Theory. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1984, PAS-103, 2502-2518.	0.4	127
121	Transient electric and magnetic fields associated with establishing a finite electrostatic dipole. American Journal of Physics, 1983, 51, 118-126.	0.7	98
122	Variation in light intensity with height and time from subsequent lightning return strokes. Journal of Geophysical Research, 1983, 88, 6555-6562.	3.3	99
123	Lightning. Reviews of Geophysics, 1983, 21, 992-997.	23.0	1
124	Ball lightning wild and wonderful. Nature, 1982, 300, 578-579.	27.8	1
125	Lightning amplitude spectra in the interval from 100 kHz to 20 MHz. Geophysical Research Letters, 1981, 8, 931-934.	4.0	66
126	Errors in magnetic direction finding due to nonvertical lightning channels. Radio Science, 1980, 15, 35-39.	1.6	32

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127	The RF spectra of first and subsequent lightning return strokes in the 1 to 200 km range. <i>Radio Science</i> , 1980, 15, 1089-1094.	1.6	45
128	Lightning location and lower ionospheric height determination from two station magnetic field measurements. <i>Journal of Geophysical Research</i> , 1979, 84, 1727-1734.	3.3	27
129	Characterization of lightning return stroke electric and magnetic fields from simultaneous two station measurements. <i>Journal of Geophysical Research</i> , 1979, 84, 6307-6314.	3.3	235
130	Lightning. <i>Journal of Electrostatics</i> , 1978, 4, 391-392.	1.9	7
131	An Unusual Lightning Flash at Kennedy Space Center. <i>Science</i> , 1978, 201, 9-16.	12.6	54
132	Reply to Smyth and Smyth. <i>American Journal of Physics</i> , 1977, 45, 582-582.	0.7	4
133	Electric field statistics for close lightning return strokes near Gainesville, Florida. <i>Journal of Geophysical Research</i> , 1976, 81, 4430-4434.	3.3	37
134	Effects of 200 km propagation on Florida lightning return stroke electric fields. <i>Radio Science</i> , 1976, 11, 985-990.	1.6	59
135	The electromagnetic radiation from a finite antenna. <i>American Journal of Physics</i> , 1975, 43, 33-38.	0.7	447
136	Correlated electric and magnetic fields from lightning return strokes. <i>Journal of Geophysical Research</i> , 1975, 80, 373-376.	3.3	46
137	Lightning properties in Florida thunderstorms from video tape records. <i>Journal of Geophysical Research</i> , 1975, 80, 3402-3406.	3.3	44
138	Progress in atmospheric electricity. <i>Reviews of Geophysics</i> , 1975, 13, 760-765.	23.0	2
139	Lightning and the Apollo 17/Saturn V Exhaust Plume. <i>Journal of Spacecraft and Rockets</i> , 1974, 11, 72-75.	1.9	18
140	The Earth and Its Atmosphere as a Leaky Spherical Capacitor. <i>American Journal of Physics</i> , 1974, 42, 1033-1035.	0.7	19
141	Production of carbon monoxide by charged particle deposition. <i>Journal of Geophysical Research</i> , 1973, 78, 5284-5291.	3.3	2
142	Electric radiation fields of lightning return strokes in three isolated Florida thunderstorms. <i>Journal of Geophysical Research</i> , 1973, 78, 7911-7915.	3.3	23
143	Electric field intensity of the lightning return stroke. <i>Journal of Geophysical Research</i> , 1973, 78, 3523-3529.	3.3	39
144	Currents in Florida lightning return strokes. <i>Journal of Geophysical Research</i> , 1973, 78, 3530-3537.	3.3	59

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145	Measured electric field risetimes for first and subsequent lightning return strokes. Journal of Geophysical Research, 1972, 77, 399-406.	3.3	45
146	Lightning induced by thermonuclear detonations. Journal of Geophysical Research, 1972, 77, 1591-1596.	3.3	26
147	Exact expression and moment approximation for the electric field intensity of the lightning return stroke. Journal of Geophysical Research, 1971, 76, 2101-2105.	3.3	41
148	Shock Wave from a Fourâ€Meter Spark. Journal of Applied Physics, 1970, 41, 3148-3155.	2.5	31
149	Radiation field and current of the lightning stepped leader. Journal of Geophysical Research, 1970, 75, 1058-1066.	3.3	37
150	Comments on letter by W. W. Troutman, â€Numerical calculation of the pressure pulse from a lightning strokeâ€ Journal of Geophysical Research, 1970, 75, 4192-4195.	3.3	9
151	Lightning return stroke current from magnetic and radiation field measurements. Journal of Geophysical Research, 1970, 75, 5143-5147.	3.3	94
152	Determination of lightning temperature. Journal of Geophysical Research, 1969, 74, 949-957.	3.3	56
153	Toward a theory of ball lightning. Journal of Geophysical Research, 1969, 74, 6887-6898.	3.3	16
154	Magnetic field of lightning return stroke. Journal of Geophysical Research, 1969, 74, 6899-6910.	3.3	390
155	Time interval between lightning strokes and the initiation of dart leaders. Journal of Geophysical Research, 1968, 73, 497-506.	3.3	89
156	Acoustic output of a long spark. Journal of Geophysical Research, 1968, 73, 815-816.	3.3	26
157	Peak power and energy dissipation in a single-stroke lightning flash. Journal of Geophysical Research, 1968, 73, 3335-3339.	3.3	93
158	Discussion of paper by E. L. Hill and J. D. Robb, â€Pressure Pulse from a Lightning Strokeâ€™. Journal of Geophysical Research, 1968, 73, 6595-6597.	3.3	10
159	Fourâ€Meter Sparks in Air. Journal of Applied Physics, 1968, 39, 5162-5168.	2.5	37
160	Temperature and Electron Density in Long Air Sparks. Journal of Applied Physics, 1967, 38, 895-896.	2.5	44
161	A theory of ball lightning. Journal of Geophysical Research, 1966, 71, 1975-1984.	3.3	17
162	Quantitative lightning spectroscopy. IEEE Spectrum, 1966, 3, 102-110.	0.7	18

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163	The optical continuum of lightning. Journal of Geophysical Research, 1965, 70, 279-282.	3.3	9
164	The opacity of lightning. Journal of Geophysical Research, 1965, 70, 5491-5497.	3.3	57
165	The diameter of lightning. Journal of Geophysical Research, 1964, 69, 583-585.	3.3	33
166	Electron density measurement in lightning from stark-broadening of H β . Journal of Geophysical Research, 1964, 69, 5151-5154.	3.3	33
167	The mass density, pressure, and electron density in three lightning strokes near peak temperature. Journal of Geophysical Research, 1964, 69, 5423-5424.	3.3	15
168	The peak temperature of lightning. Journal of Atmospheric and Solar-Terrestrial Physics, 1964, 26, 123-128.	0.9	47
169	The conductivity of lightning. Journal of Atmospheric and Solar-Terrestrial Physics, 1964, 26, 1215-1219.	0.9	31