

Martin FÃ¼llekrug

List of Publications by Year in descending order

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73
papers

1,594
citations

304743

22
h-index

330143

37
g-index

80
all docs

80
docs citations

80
times ranked

761
citing authors

#	ARTICLE	IF	CITATIONS
1	On the relationship between lightning superbolts and TLEs in Northern Europe. Atmospheric Research, 2022, 270, 106047.	4.1	4
2	Long-Term Observations of Schumann Resonances at Portishead (UK). Atmosphere, 2022, 13, 38.	2.3	8
3	First Observations of Elves and Their Causative Very Strong Lightning Discharges in an Unusual Small-Scale Continental Spring-Time Thunderstorm. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	6
4	Global Lightning Quanta. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033201.	3.3	2
5	Asymmetric Backward Peaking Radiation Pattern From a Relativistic Particle Accelerated by Lightning Leader Tip Electric Field. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033204.	3.3	0
6	Observation of Terrestrial Gamma-Ray Flashes at Mid Latitude. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034432.	3.3	12
7	Simulation of Earth-Ionosphere Cavity Resonances With Lightning Flashes Reported by OTD/LIS. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	2
8	Climatology of Transient Luminous Events and Lightning Observed Above Europe and the Mediterranean Sea. Surveys in Geophysics, 2020, 41, 167-199.	4.6	16
9	Lower Ionospheric Conductivity Modification Above a Thunderstorm Updraught. Journal of Geophysical Research: Space Physics, 2019, 124, 6938-6949.	2.4	1
10	First Map of Coherent Low-Frequency Continuum Radiation in the Sky. Radio Science, 2019, 54, 44-59.	1.6	3
11	Maximum Sprite Streamer Luminosity Near the Stratopause. Geophysical Research Letters, 2019, 46, 12572-12579.	4.0	6
12	Lightning Sferics: Analysis of the Instantaneous Phase and Frequency Inferred From Complex Waveforms. Radio Science, 2018, 53, 448-457.	1.6	7
13	Detection of Low-Frequency Continuum Radiation. Radio Science, 2018, 53, 1039-1050.	1.6	3
14	Lower Ionosphere Effects on Narrowband Very Low Frequency Transmission Propagation: Fast Variabilities and Frequency Dependence. Radio Science, 2018, 53, 611-623.	1.6	6
15	Dancing sprites: Detailed analysis of two case studies. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3173-3192.	3.3	15
16	Introduction to lightning detection. Weather, 2017, 72, 32-35.	0.7	3
17	Variable phase propagation velocity for long-range lightning location system. Radio Science, 2016, 51, 1806-1815.	1.6	12
18	Mapping lightning in the sky with a mini array. Geophysical Research Letters, 2016, 43, 10,448.	4.0	9

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19	The LOFT mission concept: a status update. Proceedings of SPIE, 2016, , .	0.8	9
20	Time and space correlation between sprites and their parent lightning flashes for a thunderstorm observed during the HyMeX campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,552.	3.3	22
21	Multipath propagation of low-frequency radio waves inferred from high-resolution array analysis. Radio Science, 2015, 50, 1141-1149.	1.6	8
22	Map of low-frequency electromagnetic noise in the sky. Geophysical Research Letters, 2015, 42, 4648-4653.	4.0	11
23	Multi-instrumental analysis of large sprite events and their producing storm in southern France. Atmospheric Research, 2014, 135-136, 415-431.	4.1	26
24	Array analysis of electromagnetic radiation from radio transmitters for submarine communication. Geophysical Research Letters, 2014, 41, 9143-9149.	4.0	12
25	Mapping the radio sky with an interferometric network of low-frequency radio receivers. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8390-8398.	3.3	13
26	Energetic Charged Particles Above Thunderclouds. Surveys in Geophysics, 2013, 34, 1-41.	4.6	26
27	Illumination of mesospheric irregularity by lightning discharge. Geophysical Research Letters, 2013, 40, 6411-6416.	4.0	11
28	Electron acceleration above thunderclouds. Environmental Research Letters, 2013, 8, 035027.	5.2	22
29	In situ detection of electrified aerosols in the upper troposphere and stratosphere. Atmospheric Chemistry and Physics, 2013, 13, 11187-11194.	4.9	9
30	Sprites in low-frequency radio noise. Geophysical Research Letters, 2013, 40, 2395-2399.	4.0	13
31	The Earth's electromagnetic environment. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	18
32	The properties of a gigantic jet reflected in a simultaneous sprite: Observations interpreted by a model. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	25
33	Experimental simulation of satellite observations of 100 kHz radio waves from relativistic electron beams above thunderclouds. Atmospheric Chemistry and Physics, 2011, 11, 667-673.	4.9	3
34	Relativistic electron beams above thunderclouds. Atmospheric Chemistry and Physics, 2011, 11, 7747-7754.	4.9	22
35	Worldwide extremely low frequency magnetic field sensor network for sprite studies. Radio Science, 2011, 46, .	1.6	11
36	Sprites and energetic radiation above thunderstorms. , 2011, , .		0

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37	Multi-instrumental observations of a positive gigantic jet produced by a winter thunderstorm in Europe. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	63
38	Wideband digital low-frequency radio receiver. <i>Measurement Science and Technology</i> , 2010, 21, 015901.	2.6	34
39	Relativistic runaway breakdown in low-frequency radio. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
40	Exploration of the electromagnetic environment. <i>Physics Education</i> , 2009, 44, 133-137.	0.5	4
41	Transionospheric attenuation of 100 kHz radio waves inferred from satellite and ground based observations. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	18
42	Recent Results from Studies of Electric Discharges in the Mesosphere. <i>Surveys in Geophysics</i> , 2008, 29, 71-137.	4.6	114
43	Automated chirp detection with diffusion entropy: Application to infrasound from sprites. <i>Chaos, Solitons and Fractals</i> , 2008, 38, 1039-1050.	5.1	3
44	New model simulations of the global atmospheric electric circuit driven by thunderstorms and electrified shower clouds: The roles of lightning and sprites. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 2485-2509.	1.6	96
45	Elementary model of sprite igniting electric fields. <i>American Journal of Physics</i> , 2006, 74, 804-805.	0.7	16
46	The Planetary rate of sprite events. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	33
47	Stratospheric Joule heating by lightning continuing current inferred from radio remote sensing. <i>Radio Science</i> , 2006, 41, n/a-n/a.	1.6	14
48	The contribution of sprites to the global atmospheric electric circuit. <i>Earth, Planets and Space</i> , 2006, 58, 1193-1196.	2.5	19
49	Detection of thirteen resonances of radio waves from particularly intense lightning discharges. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	20
50	Probing the Speed of Light with Radio Waves at Extremely Low Frequencies. <i>Physical Review Letters</i> , 2004, 93, 043901.	7.8	10
51	The contribution of intense lightning discharges to the global atmospheric electric circuit during April 1998. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 1115-1119.	1.6	24
52	Influence of solar terminator passages on Schumann resonance parameters. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 1187-1194.	1.6	35
53	The initiation and evolution of SPECIAL. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 1103-1113.	1.6	11
54	Global ionospheric D-layer height monitoring. <i>Europhysics Letters</i> , 2002, 59, 626-632.	2.0	24

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55	A D-region conductivity model from EISCAT VHF measurements. <i>Annales Geophysicae</i> , 2002, 20, 1439-1445.	1.6	1
56	<i>Letter to the Editor</i> Intense oceanic lightning. <i>Annales Geophysicae</i> , 2002, 20, 133-137.	1.6	60
57	Estimation of sprite occurrences in Central Africa. <i>Meteorologische Zeitschrift</i> , 2002, 11, 99-104.	1.0	13
58	Unusually intense continuing current in lightning produces delayed mesospheric breakdown. <i>Geophysical Research Letters</i> , 2001, 28, 495-498.	4.0	91
59	Mesospheric sprite current triangulation. <i>Journal of Geophysical Research</i> , 2001, 106, 20189-20194.	3.3	39
60	Dispersion relation for spherical electromagnetic resonances in the atmosphere. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 275, 80-89.	2.1	34
61	Global triangulation of intense lightning discharges. <i>Geophysical Research Letters</i> , 2000, 27, 333-336.	4.0	86
62	Diurnal harmonics in schumann resonance parameters observed on both hemispheres. <i>Geophysical Research Letters</i> , 2000, 27, 2805-2808.	4.0	6
63	Global lightning acquisition system installed. <i>Eos</i> , 2000, 81, 333.	0.1	4
64	On the hourly contribution of global cloud-to-ground lightning activity to the atmospheric electric field in the Antarctic during December 1992. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1999, 61, 745-750.	1.6	27
65	The contribution of anisotropic conductivity in the ionosphere to lightning flash bearing deviations in the ELF/ULF range. <i>Geophysical Research Letters</i> , 1999, 26, 1109-1112.	4.0	19
66	Schumann resonance parameter changes during high-energy particle precipitation. <i>Journal of Geophysical Research</i> , 1999, 104, 10111-10118.	3.3	79
67	Excitation of Earth-ionosphere cavity resonances by sprite-associated lightning flashes. <i>Geophysical Research Letters</i> , 1998, 25, 4145-4148.	4.0	43
68	Ultra-slow tails of sprite-associated lightning flashes. <i>Geophysical Research Letters</i> , 1998, 25, 3497-3500.	4.0	23
69	Global lightning and climate variability inferred from ELF magnetic field variations. <i>Geophysical Research Letters</i> , 1997, 24, 2411-2414.	4.0	69
70	Further evidence for a global correlation of the Earth-ionosphere cavity resonances. <i>Geophysical Research Letters</i> , 1996, 23, 2773-2776.	4.0	41
71	On the accuracy of arrival azimuth determination of sprite-associated lightning flashes by Earth-ionosphere cavity resonances. <i>Geophysical Research Letters</i> , 1996, 23, 3691-3694.	4.0	15
72	On the minimization of correlated residuals. <i>Geophysical Journal International</i> , 1996, 126, 63-68.	2.4	3

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73	Coherency of Lightning Sferics. Radio Science, 0, , .	1.6	2