Martin FÃ¼llekrug

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9378070/publications.pdf

Version: 2024-02-01

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	Recent Results from Studies of Electric Discharges in the Mesosphere. Surveys in Geophysics, 2008, 29, 71-137.	4.6	114
2	New model simulations of the global atmospheric electric circuit driven by thunderstorms and electrified shower clouds: The roles of lightning and sprites. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2485-2509.	1.6	96
3	Unusually intense continuing current in lightning produces delayed mesospheric breakdown. Geophysical Research Letters, 2001, 28, 495-498.	4.0	91
4	Global triangulation of intense lightning discharges. Geophysical Research Letters, 2000, 27, 333-336.	4.0	86
5	Schumann resonance parameter changes during high-energy particle precipitation. Journal of Geophysical Research, 1999, 104, 10111-10118.	3.3	79
6	Global lightning and climate variability inferred from ELF magnetic field variations. Geophysical Research Letters, 1997, 24, 2411-2414.	4.0	69
7	Multiâ€instrumental observations of a positive gigantic jet produced by a winter thunderstorm in Europe. Journal of Geophysical Research, 2010, 115, .	3.3	63
8	<i>Letter to the Editor</i> Intense oceanic lightning. Annales Geophysicae, 2002, 20, 133-137.	1.6	60
9	Excitation of Earth-ionosphere cavity resonances by sprite-associated lightning flashes. Geophysical Research Letters, 1998, 25, 4145-4148.	4.0	43
10	Further evidence for a global correlation of the Earth-ionosphere cavity resonances. Geophysical Research Letters, 1996, 23, 2773-2776.	4.0	41
11	Mesospheric sprite current triangulation. Journal of Geophysical Research, 2001, 106, 20189-20194.	3.3	39
12	Influence of solar terminator passages on Schumann resonance parameters. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1187-1194.	1.6	35
13	Dispersion relation for spherical electromagnetic resonances in the atmosphere. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 275, 80-89.	2.1	34
14	Wideband digital low-frequency radio receiver. Measurement Science and Technology, 2010, 21, 015901.	2.6	34
15	The Planetary rate of sprite events. Geophysical Research Letters, 2006, 33, .	4.0	33
16	On the hourly contribution of global cloud-to-ground lightning activity to the atmospheric electric field in the Antarctic during December 1992. Journal of Atmospheric and Solar-Terrestrial Physics, 1999, 61, 745-750.	1.6	27
17	Energetic Charged Particles Above Thunderclouds. Surveys in Geophysics, 2013, 34, 1-41.	4.6	26
18	Multi-instrumental analysis of large sprite events and their producing storm in southern France. Atmospheric Research, 2014, 135-136, 415-431.	4.1	26

#	Article	IF	Citations
19	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
20	Global ionospheric D-layer height monitoring. Europhysics Letters, 2002, 59, 626-632.	2.0	24
21	The contribution of intense lightning discharges to the global atmospheric electric circuit during April 1998. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1115-1119.	1.6	24
22	Ultra-slow tails of sprite-associated lightning flashes. Geophysical Research Letters, 1998, 25, 3497-3500.	4.0	23
23	Relativistic runaway breakdown in lowâ€frequency radio. Journal of Geophysical Research, 2010, 115, .	3.3	23
24	Relativistic electron beams above thunderclouds. Atmospheric Chemistry and Physics, 2011, 11, 7747-7754.	4.9	22
25	Electron acceleration above thunderclouds. Environmental Research Letters, 2013, 8, 035027.	5.2	22
26	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
27	Detection of thirteen resonances of radio waves from particularly intense lightning discharges. Geophysical Research Letters, 2005, 32, .	4.0	20
28	The contribution of anisotropic conductivity in the ionosphere to lightning flash bearing deviations in the ELF/ULF range. Geophysical Research Letters, 1999, 26, 1109-1112.	4.0	19
29	The contribution of sprites to the global atmospheric electric circuit. Earth, Planets and Space, 2006, 58, 1193-1196.	2.5	19
30	Transionospheric attenuation of 100 kHz radio waves inferred from satellite and ground based observations. Geophysical Research Letters, 2009, 36, .	4.0	18
31	The Earth's electromagnetic environment. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	18
32	Elementary model of sprite igniting electric fields. American Journal of Physics, 2006, 74, 804-805.	0.7	16
33	Climatology of Transient Luminous Events and Lightning Observed Above Europe and the Mediterranean Sea. Surveys in Geophysics, 2020, 41, 167-199.	4.6	16
34	On the accuracy of arrival azimuth determination of sprite-associated lightning flashes by Earth-ionosphere cavity resonances. Geophysical Research Letters, 1996, 23, 3691-3694.	4.0	15
35	Dancing sprites: Detailed analysis of two case studies. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3173-3192.	3.3	15
36	Stratospheric Joule heating by lightning continuing current inferred from radio remote sensing. Radio Science, 2006, 41, n/a-n/a.	1.6	14

#	Article	IF	Citations
37	Mapping the radio sky with an interferometric network of lowâ€frequency radio receivers. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8390-8398.	3.3	13
38	Sprites in lowâ€frequency radio noise. Geophysical Research Letters, 2013, 40, 2395-2399.	4.0	13
39	Estimation of sprite occurrences in Central Africa. Meteorologische Zeitschrift, 2002, 11, 99-104.	1.0	13
40	Array analysis of electromagnetic radiation from radio transmitters for submarine communication. Geophysical Research Letters, 2014, 41, 9143-9149.	4.0	12
41	Variable phase propagation velocity for longâ€range lightning location system. Radio Science, 2016, 51, 1806-1815.	1.6	12
42	Observation of Terrestrial Gammaâ€Ray Flashes at Mid Latitude. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034432.	3.3	12
43	The initiation and evolution of SPECIAL. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1103-1113.	1.6	11
44	Worldwide extremely low frequency magnetic field sensor network for sprite studies. Radio Science, 2011, 46, .	1.6	11
45	Illumination of mesospheric irregularity by lightning discharge. Geophysical Research Letters, 2013, 40, 6411-6416.	4.0	11
46	Map of lowâ€frequency electromagnetic noise in the sky. Geophysical Research Letters, 2015, 42, 4648-4653.	4.0	11
47	Probing the Speed of Light with Radio Waves at Extremely Low Frequencies. Physical Review Letters, 2004, 93, 043901.	7.8	10
48	In situ detection of electrified aerosols in the upper troposphere and stratosphere. Atmospheric Chemistry and Physics, 2013, 13, 11187-11194.	4.9	9
49	Mapping lightning in the sky with a mini array. Geophysical Research Letters, 2016, 43, 10,448.	4.0	9
50	The LOFT mission concept: a status update. Proceedings of SPIE, 2016, , .	0.8	9
51	Multipath propagation of lowâ€frequency radio waves inferred from highâ€resolution array analysis. Radio Science, 2015, 50, 1141-1149.	1.6	8
52	Long-Term Observations of Schumann Resonances at Portishead (UK). Atmosphere, 2022, 13, 38.	2.3	8
53	Lightning Sferics: Analysis of the Instantaneous Phase and Frequency Inferred From Complex Waveforms. Radio Science, 2018, 53, 448-457.	1.6	7
54	Diurnal harmonics in schumann resonance parameters observed on both hemispheres. Geophysical Research Letters, 2000, 27, 2805-2808.	4.0	6

#	Article	IF	Citations
55	Lower Ionosphere Effects on Narrowband Very Low Frequency Transmission Propagation: Fast Variabilities and Frequency Dependence. Radio Science, 2018, 53, 611-623.	1.6	6
56	Maximum Sprite Streamer Luminosity Near theÂStratopause. Geophysical Research Letters, 2019, 46, 12572-12579.	4.0	6
57	First Observations of Elves and Their Causative Very Strong Lightning Discharges in an Unusual Smallâ€Scale Continental Springâ€Time Thunderstorm. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	6
58	Global lightning acquisition system installed. Eos, 2000, 81, 333.	0.1	4
59	Exploration of the electromagnetic environment. Physics Education, 2009, 44, 133-137.	0.5	4
60	On the relationship between lightning superbolts and TLEs in Northern Europe. Atmospheric Research, 2022, 270, 106047.	4.1	4
61	On the minimization of correlated residuals. Geophysical Journal International, 1996, 126, 63-68.	2.4	3
62	Automated chirp detection with diffusion entropy: Application to infrasound from sprites. Chaos, Solitons and Fractals, 2008, 38, 1039-1050.	5.1	3
63	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
64	Introduction to lightning detection. Weather, 2017, 72, 32-35.	0.7	3
65	Detection of Lowâ€Frequency Continuum Radiation. Radio Science, 2018, 53, 1039-1050.	1.6	3
66	First Map of Coherent Lowâ€Frequency Continuum Radiation in the Sky. Radio Science, 2019, 54, 44-59.	1.6	3
67	Global Lightning Quanta. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033201.	3.3	2
68	Simulation of Earthâ€Ionosphere Cavity Resonances With Lightning Flashes Reported by OTD/LIS. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	2
69	Coherency of Lightning Sferics. Radio Science, 0, , .	1.6	2
70	A D-region conductivity model from EISCAT VHF measurements. Annales Geophysicae, 2002, 20, 1439-1445.	1.6	1
71	Lower Ionospheric Conductivity Modification Above a Thunderstorm Updraught. Journal of Geophysical Research: Space Physics, 2019, 124, 6938-6949.	2.4	1
72	Sprites and energetic radiation above thunderstorms. , 2011, , .		0

#	Article	IF	Citations
73	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