

# Janusz Mlynarczyk

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

593  
citations

516710

16  
h-index

642732

23  
g-index

52  
all docs

52  
docs citations

52  
times ranked

708  
citing authors

#	ARTICLE	IF	CITATIONS
1	How Effective and Prerequisite Are Electromagnetic Extremely Low Frequency (ELF) Recordings in the Schumann Resonances Band to Function as Seismic Activity Precursors. <i>Atmosphere</i> , 2022, 13, 185.	2.3	4
2	On the relationship between lightning superbolts and TLEs in Northern Europe. <i>Atmospheric Research</i> , 2022, 270, 106047.	4.1	4
3	Estimating the Attenuation of ELF-Band Radio Waves in the Earth's Crust by Q-Bursts. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 6973-6982.	5.1	1
4	Anthropogenic Sources of Electromagnetic Interference in the Lowest ELF Band Recordings (Schumann Resonances). <i>Magnetism</i> , 2022, 2, 152-167.	1.5	0
5	Finite-difference time-domain analysis of ELF radio wave propagation in the spherical Earth's ionosphere waveguide and its validation based on analytical solutions. <i>Annales Geophysicae</i> , 2022, 40, 395-406.	1.6	4
6	Study of a TGF Associated With an Elve Using Extremely Low Frequency Electromagnetic Waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033070.	3.3	1
7	First Observations of Elves and Their Causative Very Strong Lightning Discharges in an Unusual Small-scale Continental Springtime Thunderstorm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	6
8	Signatures of large peak current lightning strokes during an unusually intense sprite-producing thunderstorm in southern England. <i>Atmospheric Research</i> , 2021, 249, 105357.	4.1	8
9	Experimental Evidence of a Link Between Lightning and Magnetic Field Fluctuations in the Upper Ionosphere Observed by Swarm. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091507.	4.0	2
10	Mesoscale convective systems as a source of electromagnetic signals registered by ground-based system and DEMETER (Detection of Electro-Magnetic Emissions Transmitted from Earthquake Regions) satellite. <i>Annales Geophysicae</i> , 2021, 39, 321-326.	1.6	2
11	Converging Luminosity in Column Sprite Filaments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090364.	4.0	3
12	Dancing Sprites Above a Lightning Mapping Array—An Analysis of the Storm and Flash/Sprite Developments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035059.	3.3	1
13	Estimating the electron energy and the strength of the electric field within sprites using ground-based optical data observed over South African storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 225, 105760.	1.6	2
14	Megaflashes: Just How Long Can a Lightning Discharge Get?. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E73-E86.	3.3	22
15	Long term measurements from the Matrika Gravitational and Geophysical Laboratory. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1693-1743.	2.6	5
16	Maximum Sprite Streamer Luminosity Near the Stratopause. <i>Geophysical Research Letters</i> , 2019, 46, 12572-12579.	4.0	6
17	Ionospheric $D$ Region Remote Sensing Using ELF Sferic Group Velocity. <i>Geophysical Research Letters</i> , 2018, 45, 12,739.	4.0	16
18	On the Series of +CG Lightning Strokes in Dancing Sprite Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,030.	3.3	19

#	ARTICLE	IF	CITATIONS
19	New broadband ELF receiver for studying atmospheric discharges in central Europe. , 2018, , .		0
20	Measurement and subtraction of Schumann resonances at gravitational-wave interferometers. Physical Review D, 2018, 97, .	4.7	50
21	Dancing sprites: Detailed analysis of two case studies. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3173-3192.	3.3	15
22	Globally coherent short duration magnetic field transients and their effect on ground based gravitational-wave detectors. Classical and Quantum Gravity, 2017, 34, 074002.	4.0	25
23	Assessment of Unusual Gigantic Jets observed during the Monsoon season: First observations from Indian Subcontinent. Scientific Reports, 2017, 7, 16436.	3.3	5
24	The Accuracy of Radio Direction Finding in the Extremely Low Frequency Range. Radio Science, 2017, 52, 1245-1252.	1.6	20
25	Characteristics of lightning flashes generating sprites above storms. E3S Web of Conferences, 2016, 12, 02001.	0.5	0
26	Subtraction of correlated noise in global networks of gravitational-wave interferometers. Classical and Quantum Gravity, 2016, 33, 224003.	4.0	36
27	Radiolocating strong ELF electromagnetic pulses using two receivers placed on different continents. , 2016, , .		1
28	Studies of a sudden ionospheric disturbance using the Schumann resonances. , 2015, , .		0
29	Novel analysis of a sudden ionospheric disturbance using Schumann resonance measurements. Journal of Geophysical Research: Space Physics, 2015, 120, 2255-2262.	2.4	10
30	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
31	An unusual sequence of sprites followed by a secondary TLE: An analysis of ELF radio measurements and optical observations. Journal of Geophysical Research: Space Physics, 2015, 120, 2241-2254.	2.4	36
32	Comparison of the charge moment change calculated from electrostatic analysis and from ELF radio observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 63-72.	3.3	3
33	Circularly polarized microwaves for magnetic resonance study in the GHz range: Application to nitrogen-vacancy in diamonds. Applied Physics Letters, 2015, 107, 013505.	3.3	32
34	Analytical modeling of Schumann resonance and ELF propagation parameters on Mars with a multi-layered ground. Planetary and Space Science, 2015, 117, 127-135.	1.7	6
35	Extremely low frequency electromagnetic field measurements at the Hylaty station and methodology of signal analysis. Radio Science, 2014, 49, 361-370.	1.6	51
36	Application of the Schumann resonance spectral decomposition in characterizing the main African thunderstorm center. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,338.	3.3	13

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37	Bidirectional leader development in sprite-producing positive cloud-to-ground flashes: Origins and characteristics of positive and negative leaders. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,755.	3.3	40
38	An Analytical Model of ELF Radiowave Propagation in Ground-Ionosphere Waveguides With a Multilayered Ground. IEEE Transactions on Antennas and Propagation, 2013, 61, 4803-4809.	5.1	13
39	ELF Propagation Parameters for the Ground-Ionosphere Waveguide With Finite Ground Conductivity. IEEE Transactions on Antennas and Propagation, 2013, 61, 2269-2275.	5.1	30
40	Microwave spectroscopy for diagnostics of nitrogen vacancy defects in diamond samples. Photonics Letters of Poland, 2013, 5, .	0.4	5
41	Microstrip antenna array for a microwave system operating at 18 GHz. , 2012, , .		0
42	Analysis of ELF electromagnetic field pulses recorded by the Hylaty station coinciding with terrestrial gamma-ray flashes. Journal of Geophysical Research, 2012, 117, .	3.3	16
43	Multiple-site investigation of the properties of an HF radio channel and the ionosphere using Digital Radio Mondiale broadcasting. Advances in Space Research, 2012, 49, 83-88.	2.6	9
44	A new technique for reconstruction of the current moment waveform related to a gigantic jet from the magnetic field component recorded by an ELF station. Radio Science, 2011, 46, .	1.6	16
45	Wide-beam high-efficiency microstrip patch-based antenna for broadband wireless applications. Microwave and Optical Technology Letters, 2011, 53, 286-288.	1.4	5
46	On pixel signal processing for MAPS sparsified readout implemented in CMOS VLSI technology. , 2008, , .		1
47	Results of an on pixel sparsification architecture in a MAPS test chip in STM 130nm technology. , 2008, , .		0
48	DESIGN AND CHARACTERIZATION OF A MONOLITHIC ACTIVE PIXEL SENSOR IN 0.25 $\mu$ m TECHNOLOGY. , 2008, , .		1
49	DESIGN OF A MONOLITHIC ACTIVE PIXEL SENSOR IN ST 0.13UM TECHNOLOGY. , 2008, , .		1
50	Studies of ELF propagation in the spherical shell cavity using a field decomposition method based on asymmetry of Schumann resonance curves. Journal of Geophysical Research, 2006, 111, .	3.3	25