

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	Extremely low frequency electromagnetic field measurements at the Hylaty station and methodology of signal analysis. <i>Radio Science</i> , 2014, 49, 361-370.	1.6	51
2	Measurement and subtraction of Schumann resonances at gravitational-wave interferometers. <i>Physical Review D</i> , 2018, 97, .	4.7	50
3	Bidirectional leader development in sprite-producing positive cloud-to-ground flashes: Origins and characteristics of positive and negative leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,755.	3.3	40
4	An unusual sequence of sprites followed by a secondary TLE: An analysis of ELF radio measurements and optical observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2241-2254.	2.4	36
5	Subtraction of correlated noise in global networks of gravitational-wave interferometers. <i>Classical and Quantum Gravity</i> , 2016, 33, 224003.	4.0	36
6	Circularly polarized microwaves for magnetic resonance study in the GHz range: Application to nitrogen-vacancy in diamonds. <i>Applied Physics Letters</i> , 2015, 107, 013505.	3.3	32
7	ELF Propagation Parameters for the Ground-Ionosphere Waveguide With Finite Ground Conductivity. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 2269-2275.	5.1	30
8	Studies of ELF propagation in the spherical shell cavity using a field decomposition method based on asymmetry of Schumann resonance curves. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	25
9	Globally coherent short duration magnetic field transients and their effect on ground based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2017, 34, 074002.	4.0	25
10	Time and space correlation between sprites and their parent lightning flashes for a thunderstorm observed during the HyMeX campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,552.	3.3	22
11	Megaflashes: Just How Long Can a Lightning Discharge Get?. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E73-E86.	3.3	22
12	The Accuracy of Radio Direction Finding in the Extremely Low Frequency Range. <i>Radio Science</i> , 2017, 52, 1245-1252.	1.6	20
13	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
14	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. <i>Radio Science</i> , 2011, 46, .	1.6	16
15	Analysis of ELF electromagnetic field pulses recorded by the Hylaty station coinciding with terrestrial gamma-ray flashes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
16	Ionospheric $\langle i \rangle D \langle /i \rangle$ Region Remote Sensing Using ELF Sferic Group Velocity. <i>Geophysical Research Letters</i> , 2018, 45, 12,739.	4.0	16
17	Dancing sprites: Detailed analysis of two case studies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3173-3192.	3.3	15
18	An Analytical Model of ELF Radiowave Propagation in Ground-Ionosphere Waveguides With a Multilayered Ground. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 4803-4809.	5.1	13

#	ARTICLE	IF	CITATIONS
19	Application of the Schumann resonance spectral decomposition in characterizing the main African thunderstorm center. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,338.	3.3	13
20	Novel analysis of a sudden ionospheric disturbance using Schumann resonance measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2255-2262.	2.4	10
21	Multiple-site investigation of the properties of an HF radio channel and the ionosphere using Digital Radio Mondiale broadcasting. <i>Advances in Space Research</i> , 2012, 49, 83-88.	2.6	9
22	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
23	Analytical modeling of Schumann resonance and ELF propagation parameters on Mars with a multi-layered ground. <i>Planetary and Space Science</i> , 2015, 117, 127-135.	1.7	6
24	Maximum Sprite Streamer Luminosity Near the Stratopause. <i>Geophysical Research Letters</i> , 2019, 46, 12572-12579.	4.0	6
25	First Observations of Elves and Their Causative Very Strong Lightning Discharges in an Unusual Small-scale Continental Spring-time Thunderstorm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	6
26	Wide-beam high-efficiency microstrip patch-based antenna for broadband wireless applications. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 286-288.	1.4	5
27	Assessment of Unusual Gigantic Jets observed during the Monsoon season: First observations from Indian Subcontinent. <i>Scientific Reports</i> , 2017, 7, 16436.	3.3	5
28	Long term measurements from the MĀjtra Gravitational and Geophysical Laboratory. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1693-1743.	2.6	5
29	Microwave spectroscopy for diagnostics of nitrogen vacancy defects in diamond samples. <i>Photonics Letters of Poland</i> , 2013, 5, .	0.4	5
30	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
31	On the relationship between lightning superbolts and TLEs in Northern Europe. <i>Atmospheric Research</i> , 2022, 270, 106047.	4.1	4
32	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
33	Comparison of the charge moment change calculated from electrostatic analysis and from ELF radio observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 63-72.	3.3	3
34	Converging Luminosity in Columnar Sprite Filaments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090364.	4.0	3
35	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
36	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

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37	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
38	On pixel signal processing for MAPS sparsified readout implemented in CMOS VLSI technology. , 2008, , .		1
39	Radiolocating strong ELF electromagnetic pulses using two receivers placed on different continents. , 2016, , .		1
40	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
41	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
42	DESIGN AND CHARACTERIZATION OF A MONOLITHIC ACTIVE PIXEL SENSOR IN 0.25 μ m TECHNOLOGY. , 2008, , .		1
43	DESIGN OF A MONOLITHIC ACTIVE PIXEL SENSOR IN ST 0.13 μ m TECHNOLOGY. , 2008, , .		1
44	Estimating the Attenuation of ELF-Band Radio Waves in the Earth's™s Crust by Q-Bursts. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 6973-6982.	5.1	1
45	Results of an on pixel sparsification architecture in a MAPS test chip in STM 130nm technology. , 2008, , .		0
46	Microstrip antenna array for a microwave system operating at 18 GHz. , 2012, , .		0
47	Studies of a sudden ionospheric disturbance using the Schumann resonances. , 2015, , .		0
48	Characteristics of lightning flashes generating sprites above storms. <i>E3S Web of Conferences</i> , 2016, 12, 02001.	0.5	0
49	New broadband ELF receiver for studying atmospheric discharges in central Europe. , 2018, , .		0
50	Anthropogenic Sources of Electromagnetic Interference in the Lowest ELF Band Recordings (Schumann Resonances). <i>Magnetism</i> , 2022, 2, 152-167.	1.5	0