Evgeny A Mareev

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers	1,175 citations	20 h-index	29 g-index
111 ext. papers	1,378 ext. citations	2.5 avg, IF	4.5 L-index

#	Paper	IF	Citations
104	Effect of extremely low-frequency magnetic fields on light-induced electric reactions in wheat.. *Plant Signaling and Behavior*, **2022**, 2021664	2.5	1
103	Ground-based measurements of microwave brightness temperature and electric field fluctuations for clouds with a different level of electrical activity. *Atmospheric Research*, **2022**, 266, 105937	5.4	
102	Electric Field Measurements in the Antarctic Reveal Patterns Related to the El Niño–Southern Oscillation. *Geophysical Research Letters*, **2021**, 48, e2021GL095389	4.9	0
101	A new link between El Niño–Southern Oscillation and atmospheric electricity. *Environmental Research Letters*, **2021**, 16, 044025	6.2	3
100	Nanosecond Electromagnetic Pulses Generated by Electric Discharges: Observation With Clouds of Charged Water Droplets and Implications for Lightning. *Geophysical Research Letters*, **2021**, 48, e2020GL092108	4.9	5
99	Characteristic Features of the Clouds Producing Thunderstorm Ground Enhancements. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2019JD030895	4.4	4
98	Charge Distribution in a Cloud Assessed from the Energetic Particle Flux Measured under the Cloud. *Doklady Earth Sciences*, **2021**, 496, 171-175	0.6	
97	The Correlation of Temperature, Stratus Cloudiness, and Electric Field Strength in the Atmosphere. *Doklady Earth Sciences*, **2021**, 499, 595-598	0.6	
96	The global electric circuit land–ocean response to the El Niño–Southern Oscillation. *Atmospheric Research*, **2021**, 260, 105626	5.4	2
95	Forecast of Convective Events and Its Verification against Atmospheric Electricity Observations. *Izvestiya - Atmospheric and Oceanic Physics*, **2020**, 56, 123-129	1	1
94	Simulation of High-Altitude Discharges in a Large Plasma Facility. *Geomagnetism and Aeronomy*, **2020**, 60, 345-354	0.9	2
93	Extensive layer clouds in the global electric circuit: their effects on vertical charge distribution and storage. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20190758	2.4	7
92	Experimental Investigation of the Streamer Zone of Long-Spark Positive Leader Using High-Speed Photography and Microwave Probing. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031826	4.4	3
91	Meteorological Characteristics of Energetic Atmospheric Phenomena. *Physics of Particles and Nuclei Letters*, **2020**, 17, 840-847	0.5	2
90	Comment on "Measurement of the Electrical Properties of a Thundercloud through Muon Imaging by the GRAPES-3 Experiment". *Physical Review Letters*, **2020**, 124, 019501	7.4	2
89	Toward a Realistic Representation of Global Electric Circuit Generators in Models of Atmospheric Dynamics. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032130	4.4	9
88	Experimental Study of Diurnal and Seasonal Variations in the Atmospheric Electric Field. *Radiophysics and Quantum Electronics*, **2019**, 62, 183-191	0.7	4

87	The representation of ionospheric potential in the global chemistry-climate model SOCOL. *Science of the Total Environment*, **2019**, 697, 134172	10.2	4
86	Modeling Contributions of Continents and Oceans to the Diurnal Variation of the Global Electric Circuit. *Geophysical Research Letters*, **2019**, 46, 5516-5525	4.9	7
85	Modeling of Electrical Parameters of Thunderstorms Including Turbulent Effects. *Radiophysics and Quantum Electronics*, **2019**, 61, 563-573	0.7	1
84	A global atmospheric electricity monitoring network for climate and geophysical research. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2019**, 184, 18-29	2	38
83	Russian Studies of Atmospheric Electricity in 2015–2018. *Izvestiya - Atmospheric and Oceanic Physics* , **2019**, 55, 562-572	1	1
82	Thunderstorm generators operating as voltage sources in global electric circuit models. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2019**, 183, 99-109	2	3
81	Statistical Distributions of Lightning Peak Currents: Why Do They Appear to Be Lognormal?. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 5070-5089	4.4	3
80	Anomalous Decimeter Radio Noise from the Region of the Atmospheric Front: I. Characteristics of the Detected Radio Noise and Meteorological Parameters of the Frontal Cloudiness. *Izvestiya - Atmospheric and Oceanic Physics*, **2018**, 54, 147-153	1	3
79	On the Contribution of Turbulence to the Electrification of Thunderclouds. *Izvestiya - Atmospheric and Oceanic Physics*, **2018**, 54, 25-31	1	4
78	Abrupt Elongation (Stepping) of Negative and Positive Leaders Culminating in an Intense Corona Streamer Burst: Observations in Long Sparks and Implications for Lightning. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 5360-5375	4.4	29
77	Anomalous Decimeter Radio Noise from the Region of the Atmospheric Front: II. On the Nonthermal Mechanism of UHF Noise. *Izvestiya - Atmospheric and Oceanic Physics*, **2018**, 54, 380-385	1	1
76	Electric State of the Near-Surface Atmosphere according to the Results of Tethered Balloon Observations. *Doklady Earth Sciences*, **2018**, 481, 925-929	0.6	1
75	High-Speed Optical Imaging of Lightning and Sparks: Some Recent Results. *IEEJ Transactions on Power and Energy*, **2018**, 138, 321-326	0.2	7
74	Electrodynamic properties and height of atmospheric convective boundary layer. *Atmospheric Research*, **2017**, 194, 119-129	5.4	23
73	Advanced numerical model of lightning development: Application to studying the role of LPCR in determining lightning type. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 6416-6430	4.4	23
72	The role of turbulence in thunderstorm, snowstorm, and dust storm electrification. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 6976-6988	4.4	13
71	Types of lightning discharges that abruptly terminate enhanced fluxes of energetic radiation and particles observed at ground level. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 7582-7599	4.4	21
70	Observations of the connection of positive and negative leaders in meter-scale electric discharges generated by clouds of negatively charged water droplets. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 9756-9766	4.4	17

69	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land–atmosphere–ocean–society continuum in the northern Eurasian region. *Atmospheric Chemistry and Physics*, **2016**, 16, 14421-14461	6.8	43
68	A physical basis for designing integrated acoustic network systems for underwater observations. *Bulletin of the Russian Academy of Sciences: Physics*, **2016**, 80, 1229-1236	0.4	3
67	Russian studies of atmospheric electricity in 2011–2014. *Izvestiya - Atmospheric and Oceanic Physics*, **2016**, 52, 154-164	1	4
66	Calculation of the Lightning Potential Index and electric field in numerical weather prediction models. *Izvestiya - Atmospheric and Oceanic Physics*, **2015**, 51, 186-192	1	12
65	Modeling the influence of methane emissions from arctic gas hydrates on regional variations in composition of the lower atmosphere. *Izvestiya - Atmospheric and Oceanic Physics*, **2015**, 51, 412-422	1	5
64	Observation of a new class of electric discharges within artificial clouds of charged water droplets and its implication for lightning initiation within thunderclouds. *Geophysical Research Letters*, **2015**, 42, 8165-8171	4.9	19
63	On the variation of the ionospheric potential due to large-scale radioactivity enhancement and solar activity. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 7060-7082	2.6	21
62	Infrared images of bidirectional leaders produced by the cloud of charged water droplets. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 10,728-10,735	4.4	9
61	Influence of Large-Scale Conductivity Inhomogeneities in the Atmosphere on the Global Electric Circuit. *Journals of the Atmospheric Sciences*, **2014**, 71, 4382-4396	2.1	12
60	On Statistical Characteristics of Electric Fields of the Thunderstorm Clouds in the Atmosphere. *Radiophysics and Quantum Electronics*, **2014**, 56, 778-787	0.7	6
59	Stationary and nonstationary models of the global electric circuit: Well-posedness, analytical relations, and numerical implementation. *Izvestiya - Atmospheric and Oceanic Physics*, **2014**, 50, 314-322	1	20
58	Comment on "Charge transfer to the ionosphere and to the ground during thunderstorms" by S. A. Mallios and V. P. Pasko. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2359-2362	2.6	2
57	Variation of the global electric circuit and Ionospheric potential in a general circulation model. *Geophysical Research Letters*, **2014**, 41, 9009-9016	4.9	29
56	Comprehensive study of regional thunderstorm activity in a wide frequencie range **2014**,		1
55	PAN EURASIAN EXPERIMENT (PEEX) - A RESEARCH INITIATIVE MEETING THE GRAND CHALLENGES OF THE CHANGING ENVIRONMENT OF THE NORTHERN PAN-EURASIAN ARCTIC-BOREAL AREAS. *Geography, Environment, Sustainability*, **2014**, 7, 13-48	1	14
54	A model of sprite influence on the chemical balance of mesosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2013**, 102, 298-310	2	10
53	Peculiarities of the disturbance in the mesosphere composition and optical emissions caused by high-altitude discharges. *Izvestiya - Atmospheric and Oceanic Physics*, **2013**, 49, 530-540	1	2
52	Simulating indirect effects that thunderstorm activity has on atmospheric temperature. *Izvestiya - Atmospheric and Oceanic Physics*, **2013**, 49, 504-518	1	4

51	Global transients in ultraviolet and red-infrared ranges from data of Universitetsky-Tatiana-2 satellite. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 370-379	4.4	29
50	Aeroelectric structures and turbulence in the atmospheric boundary layer. *Nonlinear Processes in Geophysics*, **2013**, 20, 819-824	2.9	7
49	Theoretical models of the height of the atmospheric boundary layer and turbulent entrainment at its upper boundary. *Izvestiya - Atmospheric and Oceanic Physics*, **2012**, 48, 133-142	1	31
48	Investigations of the space environment aboard the Universitetsky-Tatyana and Universitetsky-Tatyana-2 microsatellites. *Solar System Research*, **2011**, 45, 3-29	0.8	28
47	Atmospheric ultraviolet and red-infrared flashes from Universitetsky-Tatiana-2 satellite data. *Journal of Experimental and Theoretical Physics*, **2011**, 113, 781-790	1	17
46	Simulation of mesospheric-composition disturbances under the action of high-altitude discharges (sprites). *Radiophysics and Quantum Electronics*, **2011**, 54, 111-127	0.7	6
45	An upward connecting leader at tests of large-scale lightning-rod models **2011**,		2
44	On conditions of initiation of electric discharges in the middle atmosphere. *Izvestiya - Atmospheric and Oceanic Physics*, **2010**, 46, 69-75	1	5
43	Simulation of the impact of thunderstorm activity on atmospheric gas composition. *Izvestiya - Atmospheric and Oceanic Physics*, **2010**, 46, 451-467	1	14
42	Transient luminous event phenomena and energetic particles impacting the upper atmosphere: Russian space experiment programs. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		7
41	Thunderstorm neutrons in near space: Analyses and numerical simulation. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		8
40	Experiment based on spacesuit Orlan-M Neutron fluxes from thunderstorms. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		5
39	Global electric circuit research: achievements and prospects. *Uspekhi Fizicheskikh Nauk*, **2010**, 180, 527	0.5	10
38	Energetic Particles Impacting the Upper Atmosphere in Connection with Transient Luminous Event Phenomena: Russian Space Experiment Programs **2009**,		2
37	Generating electric-discharge layers in mesoscale convective systems. *Izvestiya - Atmospheric and Oceanic Physics*, **2009**, 45, 242-252	1	2
36	Russian studies in the field of atmospheric electricity in 2003 2007. *Izvestiya - Atmospheric and Oceanic Physics*, **2009**, 45, 663-673	1	2
35	Lifetime of the thunderstorm electric energy in the global atmospheric circuit and thunderstorm energy characteristics. *Atmospheric Research*, **2009**, 91, 161-164	5.4	9
34	On the generation of charge layers in MCS stratiform regions. *Atmospheric Research*, **2009**, 91, 272-280	5.4	8

33	Computer simulations on sprite initiation for realistic lightning models with higher-frequency surges. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		29
32	Formation of Charge Layers in the Planetary Atmospheres. *Space Sciences Series of ISSI*, **2008**, 373-397	0.1	1
31	On the role of transient currents in the global electric circuit. *Geophysical Research Letters*, **2008**, 35,	4.9	29
30	An Overview of Earth‐Global Electric Circuit and Atmospheric Conductivity. *Space Science Reviews*, **2008**, 137, 83-105	7.5	163
29	Formation of Charge Layers in the Planetary Atmospheres. *Space Science Reviews*, **2008**, 137, 373-397	7.5	9
28	Geophysical studies of the global electric circuit. *Izvestiya, Physics of the Solid Earth*, **2008**, 44, 760-769	1	25
27	Are lightning M components capable of initiating sprites and sprite halos?. *Journal of Geophysical Research*, **2007**, 112,		49
26	Cellular automaton modeling of mesospheric optical emissions: Sprites. *Physics of Plasmas*, **2007**, 14, 042902	2.1	11
25	Mechanisms of coupling of aeroelectric and temperature fields in the lower atmosphere. *Radiophysics and Quantum Electronics*, **2006**, 49, 31-46	0.7	
24	On the electro‐dynamical characteristics of the fog. *Atmospheric Research*, **2005**, 76, 16-28	5.4	20
23	Modeling of the Electric-Field Dynamics in the Atmosphere Using the Test-Structure Method. *Radiophysics and Quantum Electronics*, **2005**, 48, 575-586	0.7	6
22	On the calculation of electric fields and currents of mesoscale convective systems. *Journal of Geophysical Research*, **2004**, 109,		32
21	Plasma density-electric field turbulence in the low-latitude ionosphere from the observation on satellites; possible connection with seismicity. *Physics and Chemistry of the Earth*, **2004**, 29, 569-577	3	15
20	Transmission of waves near the lower oblique resonance using dipoles in the ionosphere. *Radio Science*, **2003**, 38, n/a-n/a	1.4	16
19	Universal spectra of electric field pulsations in the atmosphere. *Geophysical Research Letters*, **2002**, 29, 70-1-70-4	4.9	30
18	Mechanisms for the Formation of Electric-Field Pulsation Spectra in the Near-Surface Atmosphere. *Radiophysics and Quantum Electronics*, **2001**, 44, 520-532	0.7	6
17	Autowave Regimes of Thundercloud Electrification. *Radiophysics and Quantum Electronics*, **2001**, 44, 137-150	0.7	2
16	Physical processes responsible for the nonlinearities of probe characteristics and their implications in space plasma measurements. *Radio Science*, **2001**, 36, 1083-1091	1.4	3

15	Modeling of lightning generated electric field transitional processes. *Geophysical Research Letters*, **2000**, 27, 3833-3836	4.9	4
14	On the generation and evolution of aeroelectric structures in the surface layer. *Journal of Geophysical Research*, **1999**, 104, 14359-14367		25
13	On spatial structures formation in dusty plasmas. *Physics of Plasmas*, **1998**, 5, 1563-1565	2.1	7
12	Electrodynamics of a convective cloud. *Radiophysics and Quantum Electronics*, **1997**, 40, 77-86	0.7	3
11	On the electric dynamo problem. *Radiophysics and Quantum Electronics*, **1996**, 39, 527-538	0.7	4
10	Studies of an artificially generated electrode effect at ground level. *Annales Geophysicae*, **1996**, 14, 10952-1101		3
9	Studies of an artificially generated electrode effect at ground level. *Annales Geophysicae*, **1996**, 14, 10952		5
8	Spatiotemporal structures of electric field and space charge in the surface atmospheric layer. *Journal of Geophysical Research*, **1994**, 99, 10603		12
7	CHARACERISTICS OF ELECTRIC NOISES IN THE SURFACE ATMOSPHERIC LAYER. *Journal of Atmospheric Electricity*, **1991**, 10, 1-10	0.1	
6	Radio wave scattering by artificial quasiperiodic irregularities in the ionosphere. *Radiophysics and Quantum Electronics*, **1987**, 30, 631-634	0.7	2
5	Plasma resonance excitation by external source in magnetically active plasma. II. Source in inhomogeneous plasma. *Radiophysics and Quantum Electronics*, **1987**, 30, 790-794	0.7	
4	Excitation of plasma resonance in a magnetoactive plasma by an external source I. A source in a homogeneous plasma. *Radiophysics and Quantum Electronics*, **1987**, 30, 713-718	0.7	9
3	Instability in the oscillations of a moving oscillator while it radiates surface and internal waves. *Fluid Dynamics*, **1986**, 21, 147-149	0.7	2
2	Linear interaction of waves in a magnetoactive plasma when periodic inhomogeneities are present. *Radiophysics and Quantum Electronics*, **1984**, 27, 680-686	0.7	
1	Numerical simulation of high-current pulsed arc discharge in air. *Journal Physics D: Applied Physics*,	3	1