

# Ivana Kolmasova

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

669  
citations

566801

15  
h-index

610482

24  
g-index

76  
all docs

76  
docs citations

76  
times ranked

949  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. <i>Astronomy and Astrophysics</i> , 2020, 642, A12.	2.1	80
2	Propagation of lower-band whistler-mode waves in the outer Van Allen belt: Systematic analysis of 11 years of multi-component data from the Cluster spacecraft. <i>Geophysical Research Letters</i> , 2014, 41, 2729-2737.	1.5	73
3	Prevalent lightning sferics at 600 megahertz near Jupiter's poles. <i>Nature</i> , 2018, 558, 87-90.	13.7	52
4	A study of lightning flash initiation prior to the first initial breakdown pulse. <i>Atmospheric Research</i> , 2019, 217, 10-23.	1.8	37
5	Discovery of rapid whistlers close to Jupiter implying lightning rates similar to those on Earth. <i>Nature Astronomy</i> , 2018, 2, 544-548.	4.2	27
6	Identifying the source region of plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2015, 42, 3141-3149.	1.5	25
7	The Sun and heliosphere explorer – the Interhelioprobe mission. <i>Geomagnetism and Aeronomy</i> , 2016, 56, 781-841.	0.2	23
8	Electron acceleration above thunderclouds. <i>Environmental Research Letters</i> , 2013, 8, 035027.	2.2	22
9	Subionospheric propagation and peak currents of preliminary breakdown pulses before negative cloud-to-ground lightning discharges. <i>Geophysical Research Letters</i> , 2016, 43, 1382-1391.	1.5	20
10	Lightning initiation: Strong pulses of VHF radiation accompany preliminary breakdown. <i>Scientific Reports</i> , 2018, 8, 3650.	1.6	20
11	The Initial Stage of Cloud Lightning Imaged in High-Resolution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033126.	1.2	20
12	Properties of the unusually short pulse sequences occurring prior to the first strokes of negative cloud-to-ground lightning flashes. <i>Geophysical Research Letters</i> , 2014, 41, 5316-5324.	1.5	18
13	Lightning Contribution to Overall Whistler Mode Wave Intensities in the Plasmasphere. <i>Geophysical Research Letters</i> , 2019, 46, 8607-8616.	1.5	17
14	A Model of the Subpacket Structure of Rising Tone Chorus Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028094.	0.8	16
15	Initial Breakdown Pulses Accompanied by VHF Pulses During Negative Cloud-to-Ground Lightning Flashes. <i>Geophysical Research Letters</i> , 2019, 46, 5592-5600.	1.5	15
16	Interferometric imaging of intensely radiating negative leaders. <i>Physical Review D</i> , 2022, 105, .	1.6	15
17	Properties of unipolar magnetic field pulse trains generated by lightning discharges. <i>Geophysical Research Letters</i> , 2013, 40, 1637-1641.	1.5	13
18	Longitudinal Dependence of Whistler Mode Electromagnetic Waves in the Earth's Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6562-6575.	0.8	13

#	ARTICLE	IF	CITATIONS
19	Jupiter Lightning-Induced Whistler and Sferic Events With Waves and MWR During Juno Perijoves. Geophysical Research Letters, 2018, 45, 7268-7276.	1.5	11
20	LOFAR Observations of Lightning Initial Breakdown Pulses. Geophysical Research Letters, 2022, 49, .	1.5	11
21	Whistler Influence on the Overall Very Low Frequency Wave Intensity in the Upper Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 5648-5660.	0.8	10
22	Quantifying the Sheath Impedance of the Electric Double Probe Instrument on the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	10
23	Collaborative Research Activities of the Arase and Van Allen Probes. Space Science Reviews, 2022, 218, .	3.7	10
24	A model of preliminary breakdown pulse peak currents and their relation to the observed electric field pulses. Geophysical Research Letters, 2017, 44, 596-603.	1.5	9
25	A distinct negative leader propagation mode. Scientific Reports, 2021, 11, 16256.	1.6	9
26	First observations and performance of the RPW instrument on board the Solar Orbiter mission. Astronomy and Astrophysics, 2021, 656, A41.	2.1	9
27	Signatures of large peak current lightning strokes during an unusually intense sprite-producing thunderstorm in southern England. Atmospheric Research, 2021, 249, 105357.	1.8	8
28	Unusual Electromagnetic Signatures of European North Atlantic Winter Thunderstorms. Scientific Reports, 2017, 7, 13948.	1.6	7
29	Unipolar and bipolar pulses emitted during the development of lightning flashes. Geophysical Research Letters, 2015, 42, 7206-7213.	1.5	6
30	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, .	1.2	6
31	Solar Orbiter Radio and Plasma Waves - Time Domain Sampler: In-flight performance and first results. Astronomy and Astrophysics, 0, , .	2.1	6
32	Measurability of the Nonlinear Response of Electron Distribution Function to Chorus Emissions in the Earth's Radiation Belt. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029624.	0.8	6
33	Inter-Calibrated Measurements of Intense Whistlers by Arase and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029700.	0.8	6
34	Evidence for low density holes in Jupiter's ionosphere. Nature Communications, 2019, 10, 2751.	5.8	4
35	Two Propagation Scenarios of Isolated Breakdown Lightning Processes in Failed Negative Cloud-to-Ground Flashes. Geophysical Research Letters, 2020, 47, e2020GL090593.	1.5	4
36	RESPONSE OF THE CZECH RMN NETWORK TO THUNDERSTORM ACTIVITY. Radiation Protection Dosimetry, 2019, 186, 215-218.	0.4	3

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37	High-Spatiotemporal Resolution Observations of Jupiter Lightning-Induced Radio Pulses Associated With Sferics and Thunderstorms. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088397.	1.5	3
38	Ground and Space Signatures of VLF Noise Suppression by Whistlers. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027430.	0.8	3
39	Influence of Solar Wind on Secondary Cosmic Rays and Atmospheric Electricity. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
40	Cometary plasma science. <i>Experimental Astronomy</i> , 2022, 54, 1129-1167.	1.6	3
41	Multi-Point Observation of Hiss Emerging From Lightning Whistlers. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029524.	0.8	3
42	Continental thunderstorm ground enhancement observed at an exceptionally low altitude. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7959-7973.	1.9	3
43	Very low frequency radio events with a reduced intensity observed by the low-altitude DEMETER spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9781-9794.	0.8	2
44	VLF Emissions With Banded Structure in the 16-to 39-kHz Frequency Range Measured by a High-Latitude Ground-Based Receiver. <i>Geophysical Research Letters</i> , 2019, 46, 14214-14222.	1.5	2
45	Lightning activity in northern Europe during a stormy winter: disruptions of weather patterns originating in global climate phenomena. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3379-3389.	1.9	2
46	Selective Attenuation of Lightning-Generated Whistlers at Extralow Frequencies: DEMETER Spacecraft Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8631-8640.	0.8	1
47	Automatic detection of atmospheric and tweek atmospheric in radio spectrograms based on a deep learning approach. <i>Earth and Space Science</i> , 2021, 8, e2021EA002007.	1.1	1
48	A Frontal Thunderstorm With Several Multi-Cell Lines Found to Produce Energetic Preliminary Breakdown. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	1
49	First results of the ground-based measurements of the IME-HF analyser. , 2011, , .		0
50	Observation of lightning-induced signals on the summit of La Grande Montagne: HF measurements. <i>E3S Web of Conferences</i> , 2014, 4, 02001.	0.2	0
51	Submicrosecond structure of magnetic-field waveforms of different types of return strokes. , 2014, , .		0
52	Propagation of preliminary breakdown pulses preceding cloud-to-ground lightning discharges. , 2015, , .		0