

Jaroslav Chum

List of Publications by Year in descending order

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84
papers

1,778
citations

279487

23
h-index

301761

39
g-index

97
all docs

97
docs citations

97
times ranked

1372
citing authors

#	ARTICLE	IF	CITATIONS
1	Central and Eastern European Infrasound Network: contribution to infrasound monitoring. <i>Geophysical Journal International</i> , 2022, 230, 565-579.	1.0	2
2	Instantaneous Achievement of the Hall and Pedersenâ€“Cowling Current Circuits in Northern and Southern Hemispheres During the Geomagnetic Sudden Commencement on 12 May 2021. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	2
3	Comparative Study of Equatorial and High-Latitude Over-The-Horizon Radar Parameters Using Ray-Tracing Simulations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 53-57.	1.4	2
4	Penetration of the electric fields of the geomagnetic sudden commencement over the globe as observed with the HF Doppler sounders and magnetometers. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	10
5	Maximum strength of the atmospheric electric field. <i>Physical Review D</i> , 2021, 103, .	1.6	18
6	Statistical investigation of gravity wave characteristics in the ionosphere. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	12
7	Locating Thunder Source Using a Large-Aperture Micro-Barometer Array. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
8	Ionosphere Influenced From Lower-Lying Atmospheric Regions. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	14
9	Analysis of Relationship Between Ionospheric and Solar Parameters Using Graphical Models. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029063.	0.8	1
10	Infrasound signature of the post-tropical storm Ophelia at the Central and Eastern European Infrasound Network. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 217, 105603.	0.6	6
11	Influence of Solar Wind on Secondary Cosmic Rays and Atmospheric Electricity. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
12	Ionospheric storm of September 2017 observed at ionospheric station Pruhonice, the Czech Republic. <i>Advances in Space Research</i> , 2020, 65, 115-128.	1.2	24
13	Simulated high frequency ray paths considering traveling ionospheric disturbances. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
14	Significant enhancements of secondary cosmic rays and electric field at the high mountain peak of LomnickÅ½ ÅtÅt in High Tatras during thunderstorms. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	32
15	Penetration electric fields observed at middle and low latitudes during the 22 June 2015 geomagnetic storm. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	17
16	An overview of methodologies for real-time detection, characterisation and tracking of traveling ionospheric disturbances developed in the TechTIDE project. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 42.	1.1	21
17	A global atmospheric electricity monitoring network for climate and geophysical research. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 184, 18-29.	0.6	71
18	Ionospheric high frequency wave propagation using different IRI hmF2 and foF2 models. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 196, 105141.	0.6	10

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19	Fluctuations on vertical profiles of the ionospheric electron density perturbed by the March 11, 2011 M9.0 Tohoku earthquake and tsunami. <i>GPS Solutions</i> , 2019, 23, 1.	2.2	28
20	Ionospheric Response to the 21 May 2012 Annular Solar Eclipse Over Taiwan. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3623-3636.	0.8	10
21	Toward an Improved Representation of Middle Atmospheric Dynamics Thanks to the ARISE Project. <i>Surveys in Geophysics</i> , 2018, 39, 171-225.	2.1	47
22	Infrasound in the ionosphere from earthquakes and typhoons. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 72-82.	0.6	35
23	Continuous Doppler sounding of the ionosphere during solar flares. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	12
24	3D Analysis of GW Propagation in the Ionosphere. <i>Geophysical Research Letters</i> , 2018, 45, 11,562.	1.5	15
25	Solar eclipse effects in the ionosphere observed by continuous Doppler sounding. <i>Advances in Space Research</i> , 2018, 62, 785-800.	1.2	3
26	Ground-based measurements of ionospheric dynamics. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A29.	1.1	9
27	Observation of the solar eclipse of 20 March 2015 at the Pruhonice station. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 277-284.	0.6	13
28	A review of results of the international ionospheric Doppler sounder network. <i>Advances in Space Research</i> , 2017, 60, 1629-1643.	1.2	35
29	Searching for effects caused by thunderstorms in midlatitude sporadic E layers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 161, 150-159.	0.6	19
30	Medium-scale traveling ionospheric disturbances over Taiwan observed with HF Doppler sounding. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	10
31	Correlations Between Secondary Cosmic Ray Rates and Strong Electric Fields at Lomnický štít. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,700.	1.2	23
32	Wide angle digital slit sun sensor using CCD linear array. , 2017, , .		0
33	Nonlinear acoustic waves in the viscous thermosphere and ionosphere above earthquake. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 12,126.	0.8	15
34	Seasonal and diurnal variability of pressure fluctuation in the infrasound frequency range observed in the Czech microbarograph network. <i>Studia Geophysica Et Geodaetica</i> , 2016, 60, 747-762.	0.3	2
35	The vertical propagation of disturbances triggered by seismic waves of the 11 March 2011 M9.0 Tohoku earthquake over Taiwan. <i>Geophysical Research Letters</i> , 2016, 43, 1759-1765.	1.5	63
36	Ionospheric signatures of the April 25, 2015 Nepal earthquake and the relative role of compression and advection for Doppler sounding of infrasound in the ionosphere. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	41

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37	Spread F occurrence and drift under the crest of the equatorial ionization anomaly from continuous Doppler sounding and FORMOSAT-3/COSMIC scintillation data. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	11
38	Far-field coseismic ionospheric disturbances of Tohoku earthquake. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 135, 12-21.	0.6	15
39	Comparison of devices for monitoring of the ionosphere at the observatory Pruhonice. , 2015, , .		2
40	Atmospheric infrasound observed during intense convective storms on 9â€“10 July 2011. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 122, 66-74.	0.6	15
41	Propagation of gravity waves and spread F_2 in the low-latitude ionosphere over TucumÃ¡n, Argentina, by continuous Doppler sounding: First results. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6954-6965.	0.8	23
42	A comparative study of TEC response for the African equatorial and mid-latitudes during storm conditions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 102, 105-114.	0.6	44
43	Automatic Monitoring of the Amount of Deposited Precipitation. <i>Journal of Hydrometeorology</i> , 2013, 14, 670-676.	0.7	2
44	Infrasound pulses from lightning and electrostatic field changes: Observation and discussion. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,653.	1.2	14
45	Spectral features of lightning-induced ion cyclotron waves at low latitudes: DEMETER observations and simulation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
46	Observations of wave activity in the ionosphere over South Africa in geomagnetically quiet and disturbed periods. <i>Advances in Space Research</i> , 2012, 50, 182-195.	1.2	4
47	Statistical investigation of horizontal propagation of gravity waves in the ionosphere over Europe and South Africa. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	19
48	Ionospheric disturbances (infrasound waves) over the Czech Republic excited by the 2011 Tohoku earthquake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	65
49	Infrasonic waves in the ionosphere generated by a weak earthquake. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 1930-1939.	0.6	10
50	First results of the ground-based measurements of the IME-HF analyser. , 2011, , .		0
51	An investigation of whistler intensities above thunderstorms. , 2011, , .		0
52	Simultaneous infrasonic, seismic, magnetic and ionospheric observations in an earthquake epicentre. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 1231-1240.	0.6	22
53	Whistler intensities above thunderstorms. <i>Annales Geophysicae</i> , 2010, 28, 37-46.	0.6	34
54	On the origin of lower- and upper-frequency cutoffs on wedge-like spectrograms observed by DEMETER in the midlatitude ionosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15

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55	Horizontal velocities and propagation directions of gravity waves in the ionosphere over the Czech Republic. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
56	The Origin of Plasmaspheric Hiss. <i>Science</i> , 2009, 324, 729-730.	6.0	20
57	Ionospheric oscillations caused by geomagnetic Pi2 pulsations and their observations by multipoint continuous Doppler sounding; first results. <i>Advances in Space Research</i> , 2009, 44, 667-676.	1.2	9
58	Observations of acoustic-gravity waves in the ionosphere generated by severe tropospheric weather. <i>Studia Geophysica Et Geodaetica</i> , 2009, 53, 403-418.	0.3	23
59	Doppler observations of infrasonic waves of meteorological origin at ionospheric heights. <i>Advances in Space Research</i> , 2009, 43, 1644-1651.	1.2	36
60	Correction to "Propagation of unducted whistlers from their source lightning: A case study". <i>Journal of Geophysical Research</i> , 2009, 114, n/a-n/a.	3.3	0
61	Oblique lower band chorus waves: Time shifts between discrete elements observed by the Cluster spacecraft. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
62	Oblique propagation of whistler mode waves in the chorus source region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	129
63	Statistics of multispacecraft observations of chorus dispersion and source location. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	46
64	Analysis of subprotonospheric whistlers observed by DEMETER: A case study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	26
65	Propagation of unducted whistlers from their source lightning: A case study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	45
66	Ionospheric behavior over Europe during the solar eclipse of 3 October 2005. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 836-853.	0.6	117
67	Peculiar transient phenomena observed by HF Doppler sounding on infrasound time scales. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 866-878.	0.6	5
68	Propagation Spectrograms of Whistler-Mode Radiation from Lightning. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1166-1167.	0.6	6
69	Multispacecraft observations of chorus dispersion and source location. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	17
70	Chorus source properties that produce time shifts and frequency range differences observed on different Cluster spacecraft. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	35
71	Correction to "Multispacecraft observations of chorus dispersion and source location". <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	0
72	Assessing the quality of ionogram interpretation using the HF Doppler technique. <i>Annales Geophysicae</i> , 2007, 25, 895-904.	0.6	8

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73	Propagation of whistler mode chorus to low altitudes: Spacecraft observations of structured ELF hiss. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	106
74	Assigning the causative lightning to the whistlers observed on satellites. <i>Annales Geophysicae</i> , 2006, 24, 2921-2929.	0.6	25
75	Nonducted propagation of chorus emissions and their observation. <i>Planetary and Space Science</i> , 2005, 53, 307-315.	0.9	2
76	ULF wave measurements aboard the Magion-4 subsatellite: narrow-band wave events observed in the magnetopause regions. <i>Planetary and Space Science</i> , 2005, 53, 317-326.	0.9	1
77	Propagation of whistler-mode chorus to low altitudes: divergent ray trajectories and ground accessibility. <i>Annales Geophysicae</i> , 2005, 23, 3727-3738.	0.6	82
78	Space weather effects on the MAGION-4 and MAGION-5 solar cells. <i>Annales Geophysicae</i> , 2005, 23, 3111-3113.	0.6	2
79	Characteristic properties of Nu whistlers as inferred from observations and numerical modelling. <i>Annales Geophysicae</i> , 2004, 22, 3589-3606.	0.6	47
80	Oblique noise bands above local LHR frequency. <i>Advances in Space Research</i> , 2003, 31, 1253-1258.	1.2	4
81	ULF turbulence in magnetospheric boundary layers during April 1997 as measured aboard Magion-4 subsatellite. <i>Advances in Space Research</i> , 2003, 31, 1297-1302.	1.2	2
82	Magion 5 observations of chorus-like emissions and their propagation features as inferred from ray-tracing simulation. <i>Annales Geophysicae</i> , 2003, 21, 2293-2302.	0.6	6
83	Flight dynamics lessons of INTERBALL project. <i>Acta Astronautica</i> , 2000, 46, 405-414.	1.7	1
84	Hysteresis in dependence of foF2 on solar indices. <i>Advances in Space Research</i> , 1996, 18, 145-148.	1.2	15