

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	Oblique propagation of whistler mode waves in the chorus source region. Journal of Geophysical Research, 2009, 114, .	3.3	129
2	Ionospheric behavior over Europe during the solar eclipse of 3 October 2005. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 836-853.	0.6	117
3	Propagation of whistler mode chorus to low altitudes: Spacecraft observations of structured ELF hiss. Journal of Geophysical Research, 2006, 111, .	3.3	106
4	Propagation of whistler-mode chorus to low altitudes: divergent ray trajectories and ground accessibility. Annales Geophysicae, 2005, 23, 3727-3738.	0.6	82
5	A global atmospheric electricity monitoring network for climate and geophysical research. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 184, 18-29.	0.6	71
6	Ionospheric disturbances (infrasound waves) over the Czech Republic excited by the 2011 Tohoku earthquake. Journal of Geophysical Research, 2012, 117, .	3.3	65
7	The vertical propagation of disturbances triggered by seismic waves of the 11 March 2011 $M < i > 9.0$ Tohoku earthquake over Taiwan. Geophysical Research Letters, 2016, 43, 1759-1765.	1.5	63
8	Characteristic properties of Nu whistlers as inferred from observations and numerical modelling. Annales Geophysicae, 2004, 22, 3589-3606.	0.6	47
9	Toward an Improved Representation of Middle Atmospheric Dynamics Thanks to the ARISE Project. Surveys in Geophysics, 2018, 39, 171-225.	2.1	47
10	Statistics of multispacecraft observations of chorus dispersion and source location. Journal of Geophysical Research, 2009, 114, .	3.3	46
11	Propagation of unducted whistlers from their source lightning: A case study. Journal of Geophysical Research, 2009, 114, .	3.3	45
12	A comparative study of TEC response for the African equatorial and mid-latitudes during storm conditions. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 102, 105-114.	0.6	44
13	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. Earth, Planets and Space, 2016, 68, .	0.9	41
14	Doppler observations of infrasonic waves of meteorological origin at ionospheric heights. Advances in Space Research, 2009, 43, 1644-1651.	1.2	36
15	Chorus source properties that produce time shifts and frequency range differences observed on different Cluster spacecraft. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	35
16	A review of results of the international ionospheric Doppler sounder network. Advances in Space Research, 2017, 60, 1629-1643.	1.2	35
17	Infrasound in the ionosphere from earthquakes and typhoons. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 171, 72-82.	0.6	35
18	Whistler intensities above thunderstorms. Annales Geophysicae, 2010, 28, 37-46.	0.6	34

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19	Significant enhancements of secondary cosmic rays and electric field at the high mountain peak of Lomnický štít in High Tatras during thunderstorms. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	32
20	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
21	Analysis of subprotonospheric whistlers observed by DEMETER: A case study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	26
22	Assigning the causative lightning to the whistlers observed on satellites. <i>Annales Geophysicae</i> , 2006, 24, 2921-2929.	0.6	25
23	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
24	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
25	Propagation of gravity waves and spread F_2 in the low-latitude ionosphere over Tucumán, Argentina, by continuous Doppler sounding: First results. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6954-6965.	0.8	23
26	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
27	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
28	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
29	The Origin of Plasmaspheric Hiss. <i>Science</i> , 2009, 324, 729-730.	6.0	20
30	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
31	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
32	Maximum strength of the atmospheric electric field. <i>Physical Review D</i> , 2021, 103, .	1.6	18
33	Multispacecraft observations of chorus dispersion and source location. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	17
34	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
35	Hysteresis in dependence of foF2 on solar indices. <i>Advances in Space Research</i> , 1996, 18, 145-148.	1.2	15
36	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

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37	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
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	Atmospheric infrasound observed during intense convective storms on 9–10 July 2011. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 122, 66-74.	0.6	15
40	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
41	3D Analysis of GW Propagation in the Ionosphere. <i>Geophysical Research Letters</i> , 2018, 45, 11,562.	1.5	15
42	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
43	Ionosphere Influenced From Lower-Lying Atmospheric Regions. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	14
44	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
45	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
46	Continuous Doppler sounding of the ionosphere during solar flares. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	12
47	Statistical investigation of gravity wave characteristics in the ionosphere. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	12
48	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
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	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
51	Medium-scale traveling ionospheric disturbances over Taiwan observed with HF Doppler sounding. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	10
52	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
53	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
54	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

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55	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
56	Ground-based measurements of ionospheric dynamics. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A29.	1.1	9
57	Assessing the quality of ionogram interpretation using the HF Doppler technique. <i>Annales Geophysicae</i> , 2007, 25, 895-904.	0.6	8
58	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
59	Propagation Spectrograms of Whistler-Mode Radiation from Lightning. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1166-1167.	0.6	6
60	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
61	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
62	Oblique noise bands above local LHR frequency. <i>Advances in Space Research</i> , 2003, 31, 1253-1258.	1.2	4
63	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
64	Solar eclipse effects in the ionosphere observed by continuous Doppler sounding. <i>Advances in Space Research</i> , 2018, 62, 785-800.	1.2	3
65	Simulated high frequency ray paths considering traveling ionospheric disturbances. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
66	Locating Thunder Source Using a Large-Aperture Micro-Barometer Array. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
67	Influence of Solar Wind on Secondary Cosmic Rays and Atmospheric Electricity. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
68	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
69	Nonducted propagation of chorus emissions and their observation. <i>Planetary and Space Science</i> , 2005, 53, 307-315.	0.9	2
70	Space weather effects on the MAGION-4 and MAGION-5 solar cells. <i>Annales Geophysicae</i> , 2005, 23, 3111-3113.	0.6	2
71	Automatic Monitoring of the Amount of Deposited Precipitation. <i>Journal of Hydrometeorology</i> , 2013, 14, 670-676.	0.7	2
72	Comparison of devices for monitoring of the ionosphere at the observatory Pruhonice. , 2015, , .		2

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73	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
74	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
75	Central and Eastern European Infrasound Network: contribution to infrasound monitoring. <i>Geophysical Journal International</i> , 2022, 230, 565-579.	1.0	2
76	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
77	Flight dynamics lessons of INTERBALL project. <i>Acta Astronautica</i> , 2000, 46, 405-414.	1.7	1
78	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
79	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
80	Correction to â€œMultispacecraft observations of chorus dispersion and source locationâ€•. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	0
81	Correction to â€œPropagation of unducted whistlers from their source lightning: A case studyâ€•. <i>Journal of Geophysical Research</i> , 2009, 114, n/a-n/a.	3.3	0
82	First results of the ground-based measurements of the IME-HF analyser. , 2011, , .		0
83	An investigation of whistler intensities above thunderstorms. , 2011, , .		0
84	Wide angle digital slit sun sensor using CCD linear array. , 2017, , .		0