

Xianghui Xue

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.

87
papers

1,229
citations

19
h-index

31
g-index

102
ext. papers

1,525
ext. citations

3.7
avg, IF

4.3
L-index

#	Paper	IF	Citations
87	Comparison between the Mesospheric Winds Observed by Two Collocated Meteor Radars at Low Latitudes. <i>Remote Sensing</i> , 2022 , 14, 2354	5	2
86	Self-consistent global transport of metallic ions with WACCM-X. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 15619-15630	6.8	0
85	Climatology of Interhemispheric Mesopause Temperatures Using the High-Latitude and Middle-Latitude Meteor Radars. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034301	4.4	1
84	Error analyses of a multistatic meteor radar system to obtain a three-dimensional spatial-resolution distribution. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 3973-3988	4	0
83	Using GNSS radio occultation data to derive critical frequencies of the ionospheric sporadic E layer in real time. <i>GPS Solutions</i> , 2021 , 25, 1	4.4	3
82	Metastable helium Faraday filter for helium lidar to measure the density of the thermosphere. <i>Optics Express</i> , 2021 , 29, 4431-4441	3.3	0
81	First Observations of Antarctic Mesospheric Tidal Wind Responses to Recurrent Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL089957	4.9	4
80	Interhemispheric transport of metallic ions within ionospheric sporadic E layers by the lower thermospheric meridional circulation. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4219-4230	6.8	7
79	The sporadic sodium layer: a possible tracer for the conjunction between the upper and lower atmospheres. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11927-11940	6.8	1
78	A Signature of 27 day Solar Rotation in the Concentration of Metallic Ions within the Terrestrial Ionosphere. <i>Astrophysical Journal</i> , 2021 , 916, 106	4.7	2
77	Ionospheric F-Layer Scintillation Variabilities Over the American Sector During Sudden Stratospheric Warming Events. <i>Space Weather</i> , 2021 , 19, e2020SW002703	3.7	3
76	Responses of the Ionosphere and Neutral Winds in the Mesosphere and Lower Thermosphere in the Asian-Australian Sector to the 2019 Southern Hemisphere Sudden Stratospheric Warming. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028653	2.6	2
75	Prominent Daytime TEC Enhancements Under the Quiescent Condition of January 2017. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088398	4.9	2
74	Response of the High-latitude Upper Mesosphere to Energetic Electron Precipitation. <i>Astrophysical Journal</i> , 2020 , 893, 55	4.7	2
73	Fine gust front structure observed by coherent Doppler lidar at Lanzhou Airport (103°49′E, 36°03′N). <i>Applied Optics</i> , 2020 , 59, 2686-2694	1.7	3
72	Inertial gravity waves observed by a Doppler wind LiDAR and their possible sources. <i>Earth and Planetary Physics</i> , 2020 , 4, 1-11	1.6	2
71	Quasi-6-day waves in the mesosphere and lower thermosphere region and their possible coupling with the QBO and solar 27-day rotation. <i>Earth and Planetary Physics</i> , 2020 , 4, 1-11	1.6	1

70	Derivation of global ionospheric Sporadic E critical frequency (Es) data from the amplitude variations in GPS/GNSS radio occultations. <i>Royal Society Open Science</i> , 2020 , 7, 200320	3.3	8
69	Large-Scale Horizontally Enhanced Sodium Layers Coobserved in the Midlatitude Region of China. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7614-7628	2.6	4
68	The 27-Day Solar Rotational Cycle Response in the Mesospheric Metal Layers at Low Latitudes. <i>Geophysical Research Letters</i> , 2019 , 46, 7199-7206	4.9	3
67	Rayleigh and sodium lidar system incorporating time-division and wavelength-division multiplexing. <i>Optics Communications</i> , 2019 , 448, 116-123	2	2
66	The global climatology of the intensity of the ionospheric sporadic <i>E</i> layer. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4139-4151	6.8	27
65	Dynamical Coupling Between Hurricane Matthew and the Middle to Upper Atmosphere via Gravity Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3589-3608	2.6	15
64	Response of the Northern Stratosphere to the Madden-Julian Oscillation During Boreal Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 5314-5331	4.4	7
63	Relationship analysis of PM _{2.5} and boundary layer height using an aerosol and turbulence detection lidar. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3303-3315	4	21
62	Climatology of the mesopause relative density using a global distribution of meteor radars. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 7567-7581	6.8	8
61	Hough Mode Decomposition of the DE3 tide extracted from TIMED observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019 , 195, 105140	2	1
60	Quasi-90-day oscillation observed in the MLT region at low latitudes from the Kunming meteor radar and SABER. <i>Earth and Planetary Physics</i> , 2019 , 3, 1-11	1.6	5
59	Reply to Comment by Tsurutani et al. on First Observation of Mesosphere Response to the Solar Wind High-Speed Streams. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8169-8171	2.6	1
58	The intensification of metallic layered phenomena above thunderstorms through the modulation of atmospheric tides. <i>Scientific Reports</i> , 2019 , 9, 17907	4.9	5
57	Long-lived high-frequency gravity waves in the atmospheric boundary layer: observations and simulations. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 15431-15446	6.8	16
56	Was Magnetic Storm the Only Driver of the Long-Duration Enhancements of Daytime Total Electron Content in the Asian-Australian Sector Between 7 and 12 September 2017?. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3217-3232	2.6	51
55	Estimation of Mesospheric Densities at Low Latitudes Using the Kunming Meteor Radar Together With SABER Temperatures. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3183-3195	2.6	9
54	High- and Middle-Latitude Neutral Mesospheric Density Response to Geomagnetic Storms. <i>Geophysical Research Letters</i> , 2018 , 45, 436-444	4.9	20
53	Response of Mesospheric HO ₂ and O ₃ to Large Solar Proton Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5738-5746	2.6	3

52	Multiyear Observations of Gravity Wave Momentum Fluxes in the Midlatitude Mesosphere and Lower Thermosphere Region by Meteor Radar. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5684-5703	2.6	9
51	Observations of Red Sprites Above Hurricane Matthew. <i>Geophysical Research Letters</i> , 2018 , 45, 13,158	4.9	3
50	Sudden Sodium Layers: Their Appearance and Disappearance. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5102-5118	2.6	4
49	On the Causative Strokes of Halos Observed by ISUAL in the Vicinity of North America. <i>Geophysical Research Letters</i> , 2018 , 45, 10,781-10,789	4.9	11
48	An operational solar wind prediction system transitioning fundamental science to operations. <i>Journal of Space Weather and Space Climate</i> , 2018 , 8, A39	2.5	4
47	Assessment of the Simulation of Gravity Waves Generation by a Tropical Cyclone in the High-Resolution WACCM and the WRF. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 2214-2227	7.1	6
46	Sensitivity of the quasi-biennial oscillation simulated in WACCM to the phase speed spectrum and the settings in an inertial gravity wave parameterization. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 389-403	7.1	5
45	Global tidal mapping from observations of a radar campaign. <i>Advances in Space Research</i> , 2017 , 60, 130-143	4.4	2
44	An overturning-like thermospheric Na layer and its relevance to ionospheric field aligned irregularity and sporadic E. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 162, 151-161	2	3
43	The Modulation of the Quasi-Two-Day Wave on Total Electron Content as Revealed by BeiDou GEO and Meteor Radar Observations Over Central China. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,651-10,657	2.6	3
42	The Enhancement of Neutral Metal Na Layer Above Thunderstorms. <i>Geophysical Research Letters</i> , 2017 , 44, 9555-9563	4.9	12
41	Response of neutral mesospheric density to geomagnetic forcing. <i>Geophysical Research Letters</i> , 2017 , 44, 8647-8655	4.9	19
40	The Response of the Southern Hemisphere Middle Atmosphere to the Madden-Julian Oscillation during Austral Winter Using the Specified-Dynamics Whole Atmosphere Community Climate Model. <i>Journal of Climate</i> , 2017 , 30, 8317-8333	4.4	10
39	Stratosphere and lower mesosphere wind observation and gravity wave activities of the wind field in China using a mobile Rayleigh Doppler lidar. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8847-8857	2.6	4
38	First observation of mesosphere response to the solar wind high-speed streams. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9080-9088	2.6	15
37	COSMIC GPS observations of topographic gravity waves in the stratosphere around the Tibetan Plateau. <i>Science China Earth Sciences</i> , 2017 , 60, 188-197	4.6	2
36	Gravity waves observation of wind field in stratosphere based on a Rayleigh Doppler lidar. <i>Optics Express</i> , 2016 , 24, A581-91	3.3	6
35	Estimation of mesopause temperatures at low latitudes using the Kunming meteor radar. <i>Radio Science</i> , 2016 , 51, 130-141	1.4	17

34	A case study of A mesoscale gravity wave in the MLT region using simultaneous multi-instruments in Beijing. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016 , 140, 1-9	2	6
33	A review of latitudinal characteristics of sporadic sodium layers, including new results from the Chinese Meridian Project. <i>Earth-Science Reviews</i> , 2016 , 162, 83-106	10.2	9
32	A case study of typhoon-induced gravity waves and the orographic impacts related to Typhoon Mindulle (2004) over Taiwan. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 9193-9207	4.4	10
31	Signal of central Pacific El Niño in the Southern Hemispheric stratosphere during austral spring. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 11,438-11,450	4.4	8
30	Evidence for lightning-associated enhancement of the ionospheric sporadic E layer dependent on lightning stroke energy. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 9202-9212	2.6	17
29	Comprehensive wind correction for a Rayleigh Doppler lidar from atmospheric temperature and pressure influences and Mie contamination. <i>Chinese Physics B</i> , 2015 , 24, 094212	1.2	5
28	Lidar observations of thermospheric Na layers up to 170 km with a descending tidal phase at Lijiang (26.7°N, 100.0°E), China. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 9213-9220	2.6	29
27	Case study on complex sporadic E layers observed by GPS radio occultations. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 225-236	4	34
26	Photon Return On-Sky Test of Pulsed Sodium Laser Guide Star with D2bRepumping. <i>Publications of the Astronomical Society of the Pacific</i> , 2015 , 127, 749-756	5	19
25	Ionospheric quasi-biennial oscillation in global TEC observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014 , 107, 36-41	2	16
24	Gravity wave characteristics in the mesopause region revealed from OH airglow imager observations over Northern Colorado. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 630-645	2.6	18
23	Coupling efficiency measurements for long-pulsed solid sodium laser based on measured sodium profile data 2014 ,		5
22	Stratospheric temperature measurement with scanning Fabry-Perot interferometer for wind retrieval from mobile Rayleigh Doppler lidar. <i>Optics Express</i> , 2014 , 22, 21775-89	3.3	24
21	Case study on complex sporadic E layers observed by GPS radio occultations 2014 ,		4
20	A global view of stratospheric gravity wave hotspots located with Atmospheric Infrared Sounder observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 416-434	4.4	148
19	Lower thermospheric-enhanced sodium layers observed at low latitude and possible formation: Case studies. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2409-2418	2.6	46
18	Sporadic and thermospheric enhanced sodium layers observed by a lidar chain over China. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6627-6643	2.6	33
17	Influence of El Niño-Southern Oscillation in the mesosphere. <i>Geophysical Research Letters</i> , 2013 , 40, 3292-3296	2.6	25

16	Parameterization of the inertial gravity waves and generation of the quasi-biennial oscillation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
15	Simulations of the equatorial thermosphere anomaly: Field-aligned ion drag effect. <i>Journal of Geophysical Research</i> , 2012 , 117,		17
14	Photon returns test of the pulsed sodium guide star laser on the 1.8 meter telescope 2012 ,		2
13	Mid-altitude wind measurements with mobile Rayleigh Doppler lidar incorporating system-level optical frequency control method. <i>Optics Express</i> , 2012 , 20, 15286-300	3.3	46
12	Latitudinal variations of middle thermosphere: Observations and modeling. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		7
11	Correlation Analyses Between the Characteristic Times of Gradual Solar Energetic Particle Events and the Properties of Associated Coronal Mass Ejections. <i>Solar Physics</i> , 2011 , 270, 593-607	2.6	8
10	Possible relations between meteors, enhanced electron density layers, and sporadic sodium layers. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		43
9	Variability of gravity wave occurrence frequency and propagation direction in the upper mesosphere observed by the OH imager in Northern Colorado. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 457-462	2	18
8	Seasonal oscillations of middle atmosphere temperature observed by Rayleigh lidars and their comparisons with TIMED/SABER observations. <i>Journal of Geophysical Research</i> , 2009 , 114,		22
7	A statistical study of sporadic sodium layer observed by Sodium lidar at Hefei (31.8°N, 117.3°E). <i>Annales Geophysicae</i> , 2009 , 27, 2247-2257	2	28
6	The characteristics of the semi-diurnal tides in mesosphere/low-thermosphere (MLT) during 2002 at Wuhan (30.6°N, 114.4°E) Using canonical correlation analysis technique. <i>Advances in Space Research</i> , 2008 , 41, 1415-1422	2.4	4
5	Diurnal tides in mesosphere/low-thermosphere during 2002 at Wuhan (30.6°N, 114.4°E) using canonical correlation analysis. <i>Journal of Geophysical Research</i> , 2007 , 112,		6
4	Impact of Major Coronal Mass Ejections on Geospace during 2005 September 7-13. <i>Astrophysical Journal</i> , 2006 , 646, 625-633	4.7	46
3	An ice-cream cone model for coronal mass ejections. <i>Journal of Geophysical Research</i> , 2005 , 110,		61
2	Analysis on the interplanetary causes of the great magnetic storms in solar maximum (2000-2001). <i>Planetary and Space Science</i> , 2005 , 53, 443-457	2	14
1	An interplanetary cause of large geomagnetic storms: Fast forward shock overtaking preceding magnetic cloud. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	43