Xianghui Xue

List of Publications by Citations

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	A global view of stratospheric gravity wave hotspots located with Atmospheric Infrared Sounder observations. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 416-434	4.4	148
86	An ice-cream cone model for coronal mass ejections. *Journal of Geophysical Research*, **2005**, 110,		61
85	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?. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3217-3232	2.6	51
84	Lower thermospheric-enhanced sodium layers observed at low latitude and possible formation: Case studies. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2409-2418	2.6	46
83	Mid-altitude wind measurements with mobile Rayleigh Doppler lidar incorporating system-level optical frequency control method. *Optics Express*, **2012**, 20, 15286-300	3.3	46
82	Impact of Major Coronal Mass Ejections on Geospace during 2005 September 7–13. *Astrophysical Journal*, **2006**, 646, 625-633	4.7	46
81	Possible relations between meteors, enhanced electron density layers, and sporadic sodium layers. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		43
80	An interplanetary cause of large geomagnetic storms: Fast forward shock overtaking preceding magnetic cloud. *Geophysical Research Letters*, **2003**, 30,	4.9	43
79	Case study on complex sporadic E layers observed by GPS radio occultations. *Atmospheric Measurement Techniques*, **2015**, 8, 225-236	4	34
78	Sporadic and thermospheric enhanced sodium layers observed by a lidar chain over China. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 6627-6643	2.6	33
77	Lidar observations of thermospheric Na layers up to 170 km with a descending tidal phase at Lijiang (26.7°N, 100.0°E), China. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 9213-9220	2.6	29
76	A statistical study of sporadic sodium layer observed by Sodium lidar at Hefei (31.8°N, 117.3°E). *Annales Geophysicae*, **2009**, 27, 2247-2257	2	28
75	The global climatology of the intensity of the ionospheric sporadic <i>E</i> layer. *Atmospheric Chemistry and Physics*, **2019**, 19, 4139-4151	6.8	27
74	Parameterization of the inertial gravity waves and generation of the quasi-biennial oscillation. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		26
73	Influence of El Niño-Southern Oscillation in the mesosphere. *Geophysical Research Letters*, **2013**, 40, 3292–3296	4.7	25
72	Stratospheric temperature measurement with scanning Fabry-Perot interferometer for wind retrieval from mobile Rayleigh Doppler lidar. *Optics Express*, **2014**, 22, 21775-89	3.3	24
71	Seasonal oscillations of middle atmosphere temperature observed by Rayleigh lidars and their comparisons with TIMED/SABER observations. *Journal of Geophysical Research*, **2009**, 114,		22

70	Relationship analysis of PM_{2.5} and boundary layer height using an aerosol and turbulence detection lidar. *Atmospheric Measurement Techniques*, **2019**, 12, 3303-3315	4	21
69	High- and Middle-Latitude Neutral Mesospheric Density Response to Geomagnetic Storms. *Geophysical Research Letters*, **2018**, 45, 436-444	4.9	20
68	Response of neutral mesospheric density to geomagnetic forcing. *Geophysical Research Letters*, **2017**, 44, 8647-8655	4.9	19
67	Photon Return On-Sky Test of Pulsed Sodium Laser Guide Star with D2bRepumping. *Publications of the Astronomical Society of the Pacific*, **2015**, 127, 749-756	5	19
66	Gravity wave characteristics in the mesopause region revealed from OH airglow imager observations over Northern Colorado. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 630-645	2.6	18
65	Variability of gravity wave occurrence frequency and propagation direction in the upper mesosphere observed by the OH imager in Northern Colorado. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2010**, 72, 457-462	2	18
64	Estimation of mesopause temperatures at low latitudes using the Kunming meteor radar. *Radio Science*, **2016**, 51, 130-141	1.4	17
63	Evidence for lightning-associated enhancement of the ionospheric sporadic E layer dependent on lightning stroke energy. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 9202-9212	2.6	17
62	Simulations of the equatorial thermosphere anomaly: Field-aligned ion drag effect. *Journal of Geophysical Research*, **2012**, 117,		17
61	Ionospheric quasi-biennial oscillation in global TEC observations. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2014**, 107, 36-41	2	16
60	Long-lived high-frequency gravity waves in the atmospheric boundary layer: observations and simulations. *Atmospheric Chemistry and Physics*, **2019**, 19, 15431-15446	6.8	16
59	Dynamical Coupling Between Hurricane Matthew and the Middle to Upper Atmosphere via Gravity Waves. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 3589-3608	2.6	15
58	First observation of mesosphere response to the solar wind high-speed streams. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9080-9088	2.6	15
57	Analysis on the interplanetary causes of the great magnetic storms in solar maximum (2000–2001). *Planetary and Space Science*, **2005**, 53, 443-457	2	14
56	The Enhancement of Neutral Metal Na Layer Above Thunderstorms. *Geophysical Research Letters*, **2017**, 44, 9555-9563	4.9	12
55	On the Causative Strokes of Halos Observed by ISUAL in the Vicinity of North America. *Geophysical Research Letters*, **2018**, 45, 10,781-10,789	4.9	11
54	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. *Journal of Climate*, **2017**, 30, 8317-8333	4.4	10
53	A case study of typhoon-induced gravity waves and the orographic impacts related to Typhoon Mindulle (2004) over Taiwan. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 9193-9207	4.4	10

52	Estimation of Mesospheric Densities at Low Latitudes Using the Kunming Meteor Radar Together With SABER Temperatures. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3183-3195	2.6	9
51	Multiyear Observations of Gravity Wave Momentum Fluxes in the Midlatitude Mesosphere and Lower Thermosphere Region by Meteor Radar. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5684-5703	2.6	9
50	A review of latitudinal characteristics of sporadic sodium layers, including new results from the Chinese Meridian Project. *Earth-Science Reviews*, **2016**, 162, 83-106	10.2	9
49	Climatology of the mesopause relative density using a global distribution of meteor radars. *Atmospheric Chemistry and Physics*, **2019**, 19, 7567-7581	6.8	8
48	Signal of central Pacific El Niño in the Southern Hemispheric stratosphere during austral spring. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 11,438-11,450	4.4	8
47	Correlation Analyses Between the Characteristic Times of Gradual Solar Energetic Particle Events and the Properties of Associated Coronal Mass Ejections. *Solar Physics*, **2011**, 270, 593-607	2.6	8
46	Derivation of global ionospheric Sporadic E critical frequency (Es) data from the amplitude variations in GPS/GNSS radio occultations. *Royal Society Open Science*, **2020**, 7, 200320	3.3	8
45	Response of the Northern Stratosphere to the Madden-Julian Oscillation During Boreal Winter. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 5314-5331	4.4	7
44	Latitudinal variations of middle thermosphere: Observations and modeling. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		7
43	Interhemispheric transport of metallic ions within ionospheric sporadic <i>E</i> layers by the lower thermospheric meridional circulation. *Atmospheric Chemistry and Physics*, **2021**, 21, 4219-4230	6.8	7
42	Gravity waves observation of wind field in stratosphere based on a Rayleigh Doppler lidar. *Optics Express*, **2016**, 24, A581-91	3.3	6
41	A case study of A mesoscale gravity wave in the MLT region using simultaneous multi-instruments in Beijing. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2016**, 140, 1-9	2	6
40	Diurnal tides in mesosphere/low-thermosphere during 2002 at Wuhan (30.6°N, 114.4°E) using canonical correlation analysis. *Journal of Geophysical Research*, **2007**, 112,		6
39	Assessment of the Simulation of Gravity Waves Generation by a Tropical Cyclone in the High-Resolution WACCM and the WRF. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 2214-2227	7.1	6
38	Sensitivity of the quasi-biennial oscillation simulated in WACCM to the phase speed spectrum and the settings in an inertial gravity wave parameterization. *Journal of Advances in Modeling Earth Systems*, **2017**, 9, 389-403	7.1	5
37	Comprehensive wind correction for a Rayleigh Doppler lidar from atmospheric temperature and pressure influences and Mie contamination. *Chinese Physics B*, **2015**, 24, 094212	1.2	5
36	Coupling efficiency measurements for long-pulsed solid sodium laser based on measured sodium profile data **2014**,		5
35	Quasi-90-day oscillation observed in the MLT region at low latitudes from the Kunming meteor radar and SABER. *Earth and Planetary Physics*, **2019**, 3, 1-11	1.6	5

34	The intensification of metallic layered phenomena above thunderstorms through the modulation of atmospheric tides. *Scientific Reports*, **2019**, 9, 17907	4.9	5
33	Large-Scale Horizontally Enhanced Sodium Layers Coobserved in the Midlatitude Region of China. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 7614-7628	2.6	4
32	Stratosphere and lower mesosphere wind observation and gravity wave activities of the wind field in China using a mobile Rayleigh Doppler lidar. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8847-8857	2.6	4
31	Case study on complex sporadic E layers observed by GPS radio occultations **2014**,		4
30	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. *Advances in Space Research*, **2008**, 41, 1415-1422	2.4	4
29	First Observations of Antarctic Mesospheric Tidal Wind Responses to Recurrent Geomagnetic Activity. *Geophysical Research Letters*, **2021**, 48, e2020GL089957	4.9	4
28	Sudden Sodium Layers: Their Appearance and Disappearance. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5102-5118	2.6	4
27	An operational solar wind prediction system transitioning fundamental science to operations. *Journal of Space Weather and Space Climate*, **2018**, 8, A39	2.5	4
26	An overturning-like thermospheric Na layer and its relevance to Ionospheric field aligned irregularity and sporadic E. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2017**, 162, 151-161	2	3
25	The Modulation of the Quasi-Two-Day Wave on Total Electron Content as Revealed by BeiDou GEO and Meteor Radar Observations Over Central China. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,651-10,657	2.6	3
24	The 27-Day Solar Rotational Cycle Response in the Mesospheric Metal Layers at Low Latitudes. *Geophysical Research Letters*, **2019**, 46, 7199-7206	4.9	3
23	Response of Mesospheric HO2 and O3 to Large Solar Proton Events. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5738-5746	2.6	3
22	Fine gust front structure observed by coherent Doppler lidar at Lanzhou Airport (103°49^{prime}E, 36°03^{prime}N). *Applied Optics*, **2020**, 59, 2686-2694	1.7	3
21	Using GNSS radio occultation data to derive critical frequencies of the ionospheric sporadic E layer in real time. *GPS Solutions*, **2021**, 25, 1	4.4	3
20	Observations of Red Sprites Above Hurricane Matthew. *Geophysical Research Letters*, **2018**, 45, 13,158	4.9	3
19	Ionospheric F-Layer Scintillation Variabilities Over the American Sector During Sudden Stratospheric Warming Events. *Space Weather*, **2021**, 19, e2020SW002703	3.7	3
18	Global tidal mapping from observations of a radar campaign. *Advances in Space Research*, **2017**, 60, 130-143	2.4	2
17	Rayleigh and sodium lidar system incorporating time-division and wavelength-division multiplexing. *Optics Communications*, **2019**, 448, 116-123	2	2

16	Prominent Daytime TEC Enhancements Under the Quiescent Condition of January 2017. *Geophysical Research Letters*, **2020**, 47, e2020GL088398	4.9	2
15	Response of the High-latitude Upper Mesosphere to Energetic Electron Precipitation. *Astrophysical Journal*, **2020**, 893, 55	4.7	2
14	COSMIC GPS observations of topographic gravity waves in the stratosphere around the Tibetan Plateau. *Science China Earth Sciences*, **2017**, 60, 188-197	4.6	2
13	Photon returns test of the pulsed sodium guide star laser on the 1.8 meter telescope **2012**,		2
12	Inertial gravity waves observed by a Doppler wind LiDAR and their possible sources. *Earth and Planetary Physics*, **2020**, 4, 1-11	1.6	2
11	A Signature of 27 day Solar Rotation in the Concentration of Metallic Ions within the Terrestrial Ionosphere. *Astrophysical Journal*, **2021**, 916, 106	4.7	2
10	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. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028653	2.6	2
9	Comparison between the Mesospheric Winds Observed by Two Collocated Meteor Radars at Low Latitudes. *Remote Sensing*, **2022**, 14, 2354	5	2
8	Hough Mode Decomposition of the DE3 tide extracted from TIMED observations. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2019**, 195, 105140	2	1
7	Quasi-6-day waves in the mesosphere and lower thermosphere region and their possible coupling with the QBO and solar 27-day rotation. *Earth and Planetary Physics*, **2020**, 4, 1-11	1.6	1
6	Climatology of Interhemispheric Mesopause Temperatures Using the High-Latitude and Middle-Latitude Meteor Radars. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD034301	4.4	1
5	Reply to Comment by Tsurutani et al. on First Observation of Mesosphere Response to the Solar Wind High-Speed Streams *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8169-8171	2.6	1
4	The sporadic sodium layer: a possible tracer for the conjunction between the upper and lower atmospheres. *Atmospheric Chemistry and Physics*, **2021**, 21, 11927-11940	6.8	1
3	Self-consistent global transport of metallic ions with WACCM-X. *Atmospheric Chemistry and Physics*, **2021**, 21, 15619-15630	6.8	0
2	Error analyses of a multistatic meteor radar system to obtain a three-dimensional spatial-resolution distribution. *Atmospheric Measurement Techniques*, **2021**, 14, 3973-3988	4	0
1	Metastable helium Faraday filter for helium lidar to measure the density of the thermosphere. *Optics Express*, **2021**, 29, 4431-4441	3.3	0