Chun-ming Huang

List of Publications by Year
in descending order

69	990	516215 16	525886 27
papers	citations	h-index	g-index

70	70	70	567
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of near-global daytime boundary layer height using high-resolution radiosondes: first results and comparison with ERA5, MERRA-2, JRA-55, and NCEP-2 reanalyses. Atmospheric Chemistry and Physics, 2021, 21, 17079-17097.	1.9	99
2	Improvement of a Deep Learning Algorithm for Total Electron Content Maps: Image Completion. Journal of Geophysical Research: Space Physics, 2019, 124, 790-800.	0.8	68
3	The Comparison of Predicting Storm-Time Ionospheric TEC by Three Methods: ARIMA, LSTM, and Seq2Seq. Atmosphere, 2020, 11, 316.	1.0	59
4	Nonlinear coupling between quasi 2â€‰day wave and tides based on meteor radar observations at Maui. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,936.	1.2	36
5	High vertical resolution analyses of gravity waves and turbulence at a midlatitude station. Journal of Geophysical Research, 2012, 117, .	3.3	34
6	Responses of Quasi 2ÂDay Waves in the MLT Region to the 2013 SSW Revealed by a Meteor Radar Chain. Geophysical Research Letters, 2017, 44, 9142-9150.	1.5	34
7	Simultaneous observations of sporadic Fe and Na layers by two closely colocated resonance fluorescence lidars at Wuhan (30.5Â°N, 114.4Â°E), China. Journal of Geophysical Research, 2007, 112, .	3.3	33
8	Seasonal variations of the nocturnal mesospheric Na and Fe layers at 30Â°N. Journal of Geophysical Research, 2009, 114, .	3.3	33
9	Latitudinal and altitudinal variability of lower atmospheric inertial gravity waves revealed by U.S. radiosonde data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7750-7764.	1.2	33
10	Study of the Quasiâ€5â€Day Wave in the MLT Region by a Meteor Radar Chain. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9474-9487.	1.2	30
11	Gravity wave excitation through resonant interaction in a compressible atmosphere. Geophysical Research Letters, 2009, 36, .	1.5	22
12	Reflection and transmission of atmospheric gravity waves in a stably sheared horizontal wind field. Journal of Geophysical Research, 2010, 115, .	3.3	20
13	Quasi 10â€•and 16â€Day Wave Activities Observed Through Meteor Radar and MST Radar During Stratospheric Final Warming in 2015 Spring. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6040-6056.	1.2	20
14	Latitudinal and Topographical Variabilities of Free Atmospheric Turbulence From Highâ€Resolution Radiosonde Data Sets. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4283-4298.	1.2	19
15	A new pair of indices to describe the relationship between ionospheric disturbances and geomagnetic activity. Journal of Geophysical Research: Space Physics, 2014, 119, 10,156.	0.8	18
16	The interaction between the tropopause inversion layer and the inertial gravity wave activities revealed by radiosonde observations at a midlatitude station. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8099-8111.	1.2	18
17	A Statistical Analysis of the Propagating Quasi 16â€Day Waves at High Latitudes and Their Response to Sudden Stratospheric Warmings From 2005 to 2018. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12617-12630.	1.2	18
18	Extraction of the geomagnetic activity effect from TEC data: A comparison between the spectral whitening method and 28â€‰day running median. Journal of Geophysical Research: Space Physics, 2017, 122, 3632-3639.	0.8	16

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19	Statistical Study of Atmospheric Turbulence by Thorpe Analysis. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2897-2908.	1.2	16
20	A numerical study on nonresonant interactions of gravity waves in a compressible atmosphere. Journal of Geophysical Research, 2007, 112, .	3.3	15
21	Propagation and reflection of gravity waves in a meridionally sheared wind field. Journal of Geophysical Research, 2008, 113, .	3.3	15
22	Atmospheric waves and their interactions in the thermospheric neutral wind as observed by the Arecibo incoherent scatter radar. Journal of Geophysical Research, 2012, 117, .	3.3	15
23	Simultaneous upward and downward propagating inertiaâ€gravity waves in the MLT observed at Andes Lidar Observatory. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2812-2830.	1.2	15
24	Study of Mean Wind Variations and Gravity Wave Forcing Via a Meteor Radar Chain and Comparison with HWMâ€07 Results. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9488-9501.	1.2	15
25	Some ubiquitous features of the mesospheric Fe and Na layer borders from simultaneous and commonâ€volume Fe and Na lidar observations. Journal of Geophysical Research, 2008, 113, .	3.3	14
26	A Statistical Study of Inertia Gravity Waves in the Lower Stratosphere Over the Arctic Region Based on Radiosonde Observations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4958-4976.	1.2	14
27	Study of the Quasi 10â€Day Waves in the MLT Region During the 2018 February SSW by a Meteor Radar Chain. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028367.	0.8	14
28	Thirdâ€order resonant interaction of atmospheric gravity waves. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2197-2206.	1.2	13
29	Study of a Quasi 4â€Day Oscillation During the 2018/2019 SSW Over Mohe, China. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027687.	0.8	13
30	Vertical wavenumber spectra of three-dimensional winds revealed by radiosonde observations at midlatitude. Annales Geophysicae, 2017, 35, 107-116.	0.6	12
31	Climatology and Anomaly of the Quasiâ€Twoâ€Day Wave Behaviors During 2003â€“2018 Austral Summer Periods. Journal of Geophysical Research: Space Physics, 2019, 124, 544-556.	0.8	12
32	A numerical study of the impact of nonlinearity on the amplitude of the migrating diurnal tide. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 631-648.	0.6	11
33	Planetary Wave Characteristics in the Lower Atmosphere Over Xianghe (117.00Â°E, 39.77Â°N), China, Revealed by the Beijing MST Radar and MERRA Data. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9745-9758.	1.2	11
34	Lowâ€frequency oscillations of the gravity wave energy density in the lower atmosphere at low latitudes revealed by U.S. radiosonde data. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,458.	1.2	10
35	Latitudinal and Seasonal Variations of Vertical Wave Number Spectra of Threeâ€Dimensional Winds Revealed by Radiosonde Observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,174.	1.2	10
36	Statistical Study of the Midlatitude Mesospheric Vertical Winds Observed by the Wuhan and Beijing MST Radars in China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032776.	1.2	10

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37	Atmospheric gravity wave excitation through sum nonresonant interaction. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2429-2436.	0.6	9
38	Comparison of stratospheric evolution during the major sudden stratospheric warming events in 2018 and 2019. Earth and Planetary Physics, 2020, 4, 1-11.	0.4	9
39	Study on the relationship between the residual 27â€‰day quasiperiodicity and ionospheric Q disturbances. Journal of Geophysical Research: Space Physics, 2017, 122, 2542-2550.	0.8	8
40	The Tropopause Inversion Layer Interaction With the Inertial Gravity Wave Activities and Its Latitudinal Variability. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7512-7522.	1.2	8
41	Signature of a Quasi 30â€Day Oscillation at Midlatitude Based on Wind Observations From MST Radar and Meteor Radar. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11266-11280.	1.2	8
42	The vertical wave number spectra of potential energy density in the stratosphere deduced from the COSMIC satellite observation. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 318-336.	1.0	8
43	Investigation of dominant traveling 10-day wave components using long-term MERRA-2 database. Earth, Planets and Space, 2021, 73, .	0.9	8
44	Understanding the Excitation of Quasiâ€6â€Day Waves in Both Hemispheres During the September 2019 Antarctic SSW. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	8
45	Statistical Characteristics of the Lowâ€Latitude Eâ€Region Irregularities Observed by the HCOPAR in South China. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	8
46	Characteristics of the quasi-16-day wave in the mesosphere and lower thermosphere region as revealed by meteor radar, Aura satellite, and MERRA2 reanalysis data from 2008 to 2017. Earth and Planetary Physics, 2020, 4, 274-284.	0.4	7
47	Investigation on Spectral Characteristics of Gravity Waves in the MLT Using Lidar Observations at Andes. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028918.	0.8	7
48	Strong Quarterdiurnal Tides in the Mesosphere and Lower Thermosphere During the 2019 Arctic Sudden Stratospheric Warming Over Mohe, China. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029066.	0.8	7
49	First Observational Evidence for the Role of Polar Vortex Strength in Modulating the Activity of Planetary Waves in the MLT Region. Geophysical Research Letters, 2022, 49, .	1.5	7
50	A quasi-27-day oscillation activity from the troposphere to the mesosphere and lower thermosphere at low latitudes. Earth, Planets and Space, 2021, 73, .	0.9	6
51	Variations of Kelvin waves around the TTL region during the stratospheric sudden warming events in the Northern Hemisphere winter. Annales Geophysicae, 2016, 34, 331-345.	0.6	5
52	A mechanism to explain the variations of tropopause and tropopause inversion layer in the Arctic region during a sudden stratospheric warming in 2009. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,932.	1.2	5
53	Global characteristics of the westward-propagating quasi-16-day wave with zonal wavenumber 1 and the connection with the 2012/2013 SSW revealed by ERA-Interim. Earth, Planets and Space, 2021, 73, .	0.9	5
54	Anomalous changes of temperature and ozone QBOs in 2015â"2017 from radiosonde observation and MERRA-2 reanalysis. Earth and Planetary Physics, 2021, 5, 1-10.	0.4	3

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55	A Numerical Study of Gravity Wave Propagation Characteristics in the Stratospheric Thermal Duct. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,918.	1.2	2
56	Study of a Quasiâ€27â€Day Wave in the MLT Region During Recurrent Geomagnetic Storms in Autumn 2018. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028865.	0.8	2
57	Effect of Semidiurnal Lunar Tides Modulated by Quasiâ€2â€Day Wave on Equatorial Electrojet During Three Sudden Stratospheric Warming Events. Geophysical Research Letters, 2021, 48, e2021GL095352.	1.5	2
58	Latitudinal- and height-dependent long-term climatology of propagating quasi-16-day waves in the troposphere and stratosphere. Earth, Planets and Space, 2021, 73, .	0.9	2
59	A Statistical Investigation of Inertia Gravity Wave Activity Based on MST Radar Observations at Xianghe (116.9Â°E, 39.8Â°N), China. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	2
60	Observations of a Strong Intraseasonal Oscillation in the MLT Region During the 2015/2016 Winter Over Mohe, China. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
61	A numerical study on matching relationships of gravity waves in nonlinear interactions. Science China Earth Sciences, 2013, 56, 1079-1090.	2.3	1
62	The effect of Doppler broadening on D region negative ion ratio measurements at Arecibo. Journal of Geophysical Research: Space Physics, 2017, 122, 5816-5824.	0.8	1
63	Double sporadic metal layers as observed by colocated Fe and Na lidars at Wuhan, China. Journal of Geophysical Research: Space Physics, 2017, 122, 2237-2248.	0.8	1
64	Statistical spectral characteristics of threeâ€dimensional winds in the mesopause region revealed by the Andes lidar. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035586.	1.2	1
65	Longâ€term Study of Quasiâ€16â€day Waves Based on ERA5 Reanalysis Data and EOSÂMLS Observations From 2005 to 2020. Journal of Geophysical Research: Space Physics, 0, , .	0.8	1
66	Observations of eastward propagating quasi 6â€day waves from the troposphere to the lower thermosphere during SSWs in early 2016. Journal of Geophysical Research D: Atmospheres, 0, , .	1.2	1
67	Extraordinary quasi-16-day wave activity from October 2013 to January 2014 with radar observations at mid-latitudes and MERRA2 reanalysis data. Earth, Planets and Space, 2022, 74, .	0.9	1
68	Traveling 10-Day Waves at Mid-Latitudes in the Troposphere and Lower Stratosphere Revealed by Radiosonde Observations and MERRA-2 Data in 2020. Atmosphere, 2022, 13, 656.	1.0	0
69	The Highâ€Latitude Dawnâ€Dusk Asymmetry of Ionospheric Plasma Distribution in the Northern Hemisphere. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0