

Fan Yi

List of Publications by Year in descending order

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70
papers

1,130
citations

394421

19
h-index

501196

28
g-index

75
all docs

75
docs citations

75
times ranked

685
citing authors

#	ARTICLE	IF	CITATIONS
1	Latitudinal and seasonal variations of inertial gravity wave activity in the lower atmosphere over central China. Journal of Geophysical Research, 2007, 112, .	3.3	58
2	MicroRNA Profiling in Chinese Patients with Primary Sjögren Syndrome Reveals Elevated miRNA-181a in Peripheral Blood Mononuclear Cells. Journal of Rheumatology, 2014, 41, 2208-2213.	2.0	49
3	A numerical study of propagation characteristics of gravity wave packets propagating in a dissipative atmosphere. Journal of Geophysical Research, 2002, 107, ACL 14-1.	3.3	43
4	Atmospheric temperature measurements at altitudes of 5-30 km with a double-grating-based pure rotational Raman lidar. Applied Optics, 2014, 53, 5330.	1.8	42
5	Nonlinear coupling between quasi 2-day wave and tides based on meteor radar observations at Maui. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,936.	3.3	36
6	Slope characterization in combining analog and photon count data from atmospheric lidar measurements. Applied Optics, 2014, 53, 7312.	2.1	35
7	Convective boundary layer evolution from lidar backscatter and its relationship with surface aerosol concentration at a location of a central China megacity. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7928-7940.	3.3	35
8	High vertical resolution analyses of gravity waves and turbulence at a midlatitude station. Journal of Geophysical Research, 2012, 117, .	3.3	34
9	Simultaneous observations of sporadic Fe and Na layers by two closely colocated resonance fluorescence lidars at Wuhan (30.5°N, 114.4°E), China. Journal of Geophysical Research, 2007, 112, .	3.3	33
10	Seasonal variations of the nocturnal mesospheric Na and Fe layers at 30°N. Journal of Geophysical Research, 2009, 114, .	3.3	33
11	TIMED/SABER observations of lower mesospheric inversion layers at low and middle latitudes. Journal of Geophysical Research, 2012, 117, .	3.3	33
12	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.	3.3	33
13	Lidar observations of sporadic Na layers over Wuhan (30.5°N, 114.4°E). Geophysical Research Letters, 2002, 29, 59-1-59-4.	4.0	32
14	Lidar-measured atmospheric N ₂ vibrational-rotational Raman spectra and consequent temperature retrieval. Optics Express, 2014, 22, 27833.	3.4	27
15	Dust Aerosols Detected Using a Ground-Based Polarization Lidar and CALIPSO over Wuhan (30.5°N, 114.4°E). Journal of Geophysical Research, 2014, 119, 10, 10,784-10,793.	1.6	23
16	Gravity wave excitation through resonant interaction in a compressible atmosphere. Geophysical Research Letters, 2009, 36, .	4.0	22
17	Reflection and transmission of atmospheric gravity waves in a stably sheared horizontal wind field. Journal of Geophysical Research, 2010, 115, .	3.3	20
18	Quasi 10- and 16-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.	3.3	20

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19	Asian dust impacts on heterogeneous ice formation at Wuhan based on polarization lidar measurements. <i>Atmospheric Environment</i> , 2021, 246, 118166.	4.1	20
20	Single-line-extracted pure rotational Raman lidar to measure atmospheric temperature and aerosol profiles. <i>Optics Express</i> , 2018, 26, 27555.	3.4	20
21	Simultaneous and common-volume three-lidar observations of sporadic metal layers in the mesopause region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 102, 172-184.	1.6	19
22	A numerical study on the propagation and evolution of resonant interacting gravity waves. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	18
23	High-altitude sporadic metal atom layers observed with Na and Fe lidars at 30°N. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 482-491.	1.6	18
24	Mega Asian dust event over China on 27–31 March 2021 observed with space-borne instruments and ground-based polarization lidar. <i>Atmospheric Environment</i> , 2022, 285, 119238.	4.1	18
25	Spectrally resolved Raman lidar measurements of gaseous and liquid water in the atmosphere. <i>Applied Optics</i> , 2013, 52, 6884.	1.8	17
26	In silico profiling for secondary metabolites from <i>Lepidium meyenii</i> (maca) by the pharmacophore and ligand-shape-based joint approach. <i>Chinese Medicine</i> , 2016, 11, 42.	4.0	17
27	A numerical study on nonresonant interactions of gravity waves in a compressible atmosphere. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	15
28	Propagation and reflection of gravity waves in a meridionally sheared wind field. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	15
29	Atmospheric waves and their interactions in the thermospheric neutral wind as observed by the Arecibo incoherent scatter radar. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	15
30	Simultaneous upward and downward propagating inertia-gravity waves in the MLT observed at Andes Lidar Observatory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2812-2830.	3.3	15
31	Optical properties of aerosol and cloud particles measured by a single-line-extracted pure rotational Raman lidar. <i>Optics Express</i> , 2021, 29, 21947.	3.4	15
32	Long-term variations of aerosol optical properties over Wuhan with polarization lidar. <i>Atmospheric Environment</i> , 2021, 259, 118508.	4.1	15
33	Some ubiquitous features of the mesospheric Fe and Na layer borders from simultaneous and common-volume Fe and Na lidar observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	14
34	A Statistical Study of Inertia Gravity Waves in the Lower Stratosphere Over the Arctic Region Based on Radiosonde Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4958-4976.	3.3	14
35	Heterogeneous Nucleation of Midlevel Cloud Layer Influenced by Transported Asian Dust Over Wuhan (30.5°N, 114.4°E), China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033394.	3.3	14
36	Retrievals of dust-related particle mass and ice-nucleating particle concentration profiles with ground-based polarization lidar and sun photometer over a megacity in central China. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5939-5954.	3.1	14

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37	Third-order resonant interaction of atmospheric gravity waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2197-2206.	3.3	13
38	Falling Mixed-Phase Ice Virga and their Liquid Parent Cloud Layers as Observed by Ground-Based Lidars. <i>Remote Sensing</i> , 2020, 12, 2094.	4.0	13
39	Methods for optical adjustment in lidar systems. <i>Applied Optics</i> , 2005, 44, 1480.	2.1	12
40	Atmospheric temperature profiling by joint Raman, Rayleigh and Fe Boltzmann lidar measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1281-1288.	1.6	12
41	Behavior of sporadic Na layers on small time scale. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1374-1382.	1.6	12
42	Aerosol layers in the free troposphere and their seasonal variations as observed in Wuhan, China. <i>Atmospheric Environment</i> , 2020, 224, 117323.	4.1	12
43	A numerical study on global propagations and amplitude growths of large-scale gravity wave packets. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	11
44	Local ice formation via liquid water growth in slowly ascending humid aerosol/liquid water layers observed with ground-based lidars and radiosondes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4479-4493.	3.3	11
45	Characteristics and Seasonal Variations of Cirrus Clouds from Polarization Lidar Observations at a 30°N Plain Site. <i>Remote Sensing</i> , 2020, 12, 3998.	4.0	11
46	Measurement report: characteristics of clear-day convective boundary layer and associated entrainment zone as observed by a ground-based polarization lidar over Wuhan (30.5°N, 114.4°E). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2981-2998.	4.9	10
47	Lidar observations of Fe and Na meteor trails with high temporal resolution. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 2367-2372.	1.6	9
48	Ice Nucleation of Cirrus Clouds Related to the Transported Dust Layer Observed by Ground-Based Lidars over Wuhan, China. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 2071-2086.	4.3	9
49	Double-Receiver-Based Pure Rotational Raman LIDAR for Measuring Atmospheric Temperature at Altitudes Between Near Ground and Up To 35 km. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 10301-10309.	6.3	8
50	Horizontally oriented ice crystals observed by the synergy of zenith- and slant-pointed polarization lidar over Wuhan (30.5°N, 114.4°E), China. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 268, 107626.	2.3	8
51	Natural Seeder-Feeder Process Originating From Mixed-Phase Clouds Observed With Polarization Lidar and Radiosonde at a Mid-Latitude Plain Site. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	8
52	Sodium resonance lidar observations during 2001 Leonid meteor shower over Wuhan. <i>Science Bulletin</i> , 2004, 49, 303-306.	1.7	7
53	Simultaneous and common-volume lidar observations of K/Na layers and temperature at Arecibo Observatory (18°N, 67°W). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8038-8054.	3.3	7
54	Microphysical process of precipitating hydrometeors from warm-front mid-level stratiform clouds revealed by ground-based lidar observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17649-17664.	4.9	7

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55	A numerical study on the response of wave number spectra of atmospheric gravity waves to lower atmospheric forcing. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	6
56	Preliminary lidar observations of Na meteor trails at Wuhan (30.5°N, 114.4°E), China. <i>Science Bulletin</i> , 2010, 55, 2422-2427.	1.7	6
57	Evolution of Aerosols in the Atmospheric Boundary Layer and Elevated Layers during a Severe, Persistent Haze Episode in a Central China Megacity. <i>Atmosphere</i> , 2021, 12, 152.	2.3	5
58	Convective Boundary Layer Clouds as Observed with Ground-Based Lidar at a Mid-Latitude Plain Site. <i>Remote Sensing</i> , 2021, 13, 1281.	4.0	4
59	Water vapor anomaly over the tropical western Pacific in El Niño winters from radiosonde and satellite observations and ERA5 reanalysis data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13553-13569.	4.9	4
60	Diurnal temperature variations in the lower troposphere as measured by an all-day-operational pure rotational Raman lidar. <i>Applied Optics</i> , 2020, 59, 8688.	1.8	4
61	Spectrally Resolved Raman Lidar to Measure Backscatter Spectra of Atmospheric Three-Phase Water and Fluorescent Aerosols Simultaneously: Instrument, Methodology, and Preliminary Results. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	6.3	4
62	High resolution full-spectrum water Raman lidar. <i>Science China Technological Sciences</i> , 2012, 55, 1224-1229.	4.0	3
63	Analysis of relative error in detection caused by signal-induced noise in Na lidar system. <i>Science China Earth Sciences</i> , 2018, 61, 109-118.	5.2	3
64	A prolonged and widespread thin mid-level liquid cloud layer as observed by ground-based lidars, radiosonde and space-borne instruments. <i>Atmospheric Research</i> , 2021, 263, 105815.	4.1	3
65	A Numerical Simulation on Gravity Waves Generated by Thermal Source and their Influences on Mean Flow. <i>Chinese Journal of Geophysics</i> , 2011, 54, 415-426.	0.2	2
66	A New Method for Measuring Atmospheric Temperature and Aerosol Backscattering Coefficient Using a Pure Rotational Raman Lidar. <i>Chinese Journal of Geophysics</i> , 2012, 55, 617-625.	0.2	2
67	Small Rb ⁺ doping in CaCu ₃ Ti ₄ O ₁₂ -A possible approach to reduce dielectric loss. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 912-916.	1.0	1
68	Double sporadic metal layers as observed by colocated Fe and Na lidars at Wuhan, China. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2237-2248.	2.4	1
69	Short-term Fluctuations Of The Mesospheric Na Layer Observed By High-time-resolution Lidar. <i>E3S Web of Conferences</i> , 2018, 53, 01016.	0.5	0
70	Error Analysis of High-time-resolution Na Lidar Data and Power Spectrum Density of Mesospheric Na Layer. <i>Journal of Physics: Conference Series</i> , 2019, 1213, 042042.	0.4	0