# Fan Yi

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | Ice Nucleation of Cirrus Clouds Related to the Transported Dust Layer Observed by Ground-Based Lidars over Wuhan, China. Advances in Atmospheric Sciences, 2022, 39, 2071-2086. | 4.3 | 9 |
| 2 | Natural Seederâ€Feeder Process Originating From Mixedâ€Phase Clouds Observed With Polarization Lidar and Radiosonde at a Midâ€Latitude Plain Site. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 3.3 | 8 |
| 3 | Spectrally Resolved Raman Lidar to Measure Backscatter Spectra of Atmospheric Three-Phase Water and Fluorescent Aerosols Simultaneously: Instrument, Methodology, and Preliminary Results. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13. | 6.3 | 4 |
| 4 | Mega Asian dust event over China on 27â€“31 March 2021 observed with space-borne instruments and ground-based polarization lidar. Atmospheric Environment, 2022, 285, 119238. | 4.1 | 18 |
| 5 | Heterogeneous Nucleation of Midlevel Cloud Layer Influenced by Transported Asian Dust Over Wuhan (30.5Â°N, 114.4Â°E), China. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033394. | 3.3 | 14 |
| 6 | Asian dust impacts on heterogeneous ice formation at Wuhan based on polarization lidar measurements. Atmospheric Environment, 2021, 246, 118166. | 4.1 | 20 |
| 7 | Convective Boundary Layer Clouds as Observed with Ground-Based Lidar at a Mid-Latitude Plain Site. Remote Sensing, 2021, 13, 1281. | 4.0 | 4 |
| 8 | Measurement report: characteristics of clear-day convective boundary layer and associated entrainment zone as observed by a ground-based polarization lidar over Wuhan (30.5Â°â€‰N, 114.4Â°â€‰E). Atmospheric Chemistry and Physics, 2021, 21, 2981-2998. | 4.9 | 10 |
| 9 | Optical properties of aerosol and cloud particles measured by a single-line-extracted pure rotational Raman lidar. Optics Express, 2021, 29, 21947. | 3.4 | 15 |
| 10 | Horizontally oriented ice crystals observed by the synergy of zenith- and slant-pointed polarization lidar over Wuhan (30.5Â°N, 114.4Â°E), China. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 268, 107626. | 2.3 | 8 |
| 11 | Long-term variations of aerosol optical properties over Wuhan with polarization lidar. Atmospheric Environment, 2021, 259, 118508. | 4.1 | 15 |
| 12 | Water vapor anomaly over the tropical western Pacific in El NiÃ±o winters from radiosonde and satellite observations and ERA5 reanalysis data. Atmospheric Chemistry and Physics, 2021, 21, 13553-13569. | 4.9 | 4 |
| 13 | 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. Atmospheric Measurement Techniques, 2021, 14, 5939-5954. | 3.1 | 14 |
| 14 | A prolonged and widespread thin mid-level liquid cloud layer as observed by ground-based lidars, radiosonde and space-borne instruments. Atmospheric Research, 2021, 263, 105815. | 4.1 | 3 |
| 15 | Evolution of Aerosols in the Atmospheric Boundary Layer and Elevated Layers during a Severe, Persistent Haze Episode in a Central China Megacity. Atmosphere, 2021, 12, 152. | 2.3 | 5 |
| 16 | Microphysical process of precipitating hydrometeors from warm-front mid-level stratiform clouds revealed by ground-based lidar observations. Atmospheric Chemistry and Physics, 2021, 21, 17649-17664. | 4.9 | 7 |
| 17 | Falling Mixed-Phase Ice Virga and their Liquid Parent Cloud Layers as Observed by Ground-Based Lidars. Remote Sensing, 2020, 12, 2094. | 4.0 | 13 |
| 18 | Characteristics and Seasonal Variations of Cirrus Clouds from Polarization Lidar Observations at a 30Â°N Plain Site. Remote Sensing, 2020, 12, 3998. | 4.0 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Aerosol layers in the free troposphere and their seasonal variations as observed in Wuhan, China. Atmospheric Environment, 2020, 224, 117323. | 4.1 | 12 |
| 20 | Diurnal temperature variations in the lower troposphere as measured by an all-day-operational pure rotational Raman lidar. Applied Optics, 2020, 59, 8688. | 1.8 | 4 |
| 21 | 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. | 3.3 | 20 |
| 22 | Error Analysis of High-time-resolution Na Lidar Data and Power Spectrum Density of Mesospheric Na Layer. Journal of Physics: Conference Series, 2019, 1213, 042042. | 0.4 | 0 |
| 23 | Double-Receiver-Based Pure Rotational Raman LiDAR for Measuring Atmospheric Temperature at Altitudes Between Near Ground and Up To 35 km. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10301-10309. | 6.3 | 8 |
| 24 | Short-term Fluctuations Of The Mesospheric Na Layer Observed By High-time-resolution Lidar. E3S Web of Conferences, 2018, 53, 01016. | 0.5 | 0 |
| 25 | Analysis of relative error in detection caused by signal-induced noise in Na lidar system. Science China Earth Sciences, 2018, 61, 109-118. | 5.2 | 3 |
| 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. | 3.3 | 14 |
| 27 | Single-line-extracted pure rotational Raman lidar to measure atmospheric temperature and aerosol profiles. Optics Express, 2018, 26, 27555. | 3.4 | 20 |
| 28 | 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. | 3.3 | 15 |
| 29 | 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. | 2.4 | 1 |
| 30 | Local ice formation via liquid water growth in slowly ascending humid aerosol/liquid water layers observed with groundâ€based lidars and radiosondes. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4479-4493. | 3.3 | 11 |
| 31 | In silico profiling for secondary metabolites from Lepidium meyenii (maca) by the pharmacophore and ligand-shape-based joint approach. Chinese Medicine, 2016, 11, 42. | 4.0 | 17 |
| 32 | Simultaneous and commonâ€volume lidar observations of K/Na layers and temperature at Arecibo Observatory (18Â°N, 67Â°W). Journal of Geophysical Research D: Atmospheres, 2016, 121, 8038-8054. | 3.3 | 7 |
| 33 | 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 |
| 34 | Dust Aerosols Detected Using a Ground-Based Polarization Lidar and CALIPSO over Wuhan (30.5Â°N,) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.6 | 23 |
| 35 | Atmospheric temperature measurements at altitudes of 5â€“30â€‰â€‰km with a double-grating-based pure rotational Raman lidar. Applied Optics, 2014, 53, 5330. | 1.8 | 42 |
| 36 | Small Rb+ doping in CaCu3Ti4O12-A possible approach to reduce dielectric loss. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 912-916. | 1.0 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Slope characterization in combining analog and photon count data from atmospheric lidar measurements. Applied Optics, 2014, 53, 7312. | 2.1 | 35 |
| 38 | Lidar-measured atmospheric N_2 vibrational-rotational Raman spectra and consequent temperature retrieval. Optics Express, 2014, 22, 27833. | 3.4 | 27 |
| 39 | MicroRNA Profiling in Chinese Patients with Primary SjÃ¶gren Syndrome Reveals Elevated miRNA-181a in Peripheral Blood Mononuclear Cells. Journal of Rheumatology, 2014, 41, 2208-2213. | 2.0 | 49 |
| 40 | Simultaneous and common-volume three-lidar observations of sporadic metal layers in the mesopause region. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 102, 172-184. | 1.6 | 19 |
| 41 | Spectrally resolved Raman lidar measurements of gaseous and liquid water in the atmosphere. Applied Optics, 2013, 52, 6884. | 1.8 | 17 |
| 42 | 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. | 3.3 | 36 |
| 43 | Thirdâ€order resonant interaction of atmospheric gravity waves. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2197-2206. | 3.3 | 13 |
| 44 | 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 |
| 45 | A New Method for Measuring Atmospheric Temperature and Aerosol Backscattering Coefficient Using a Pure Rotational Raman Lidar. Chinese Journal of Geophysics, 2012, 55, 617-625. | 0.2 | 2 |
| 46 | High vertical resolution analyses of gravity waves and turbulence at a midlatitude station. Journal of Geophysical Research, 2012, 117, . | 3.3 | 34 |
| 47 | TIMED/SABER observations of lower mesospheric inversion layers at low and middle latitudes. Journal of Geophysical Research, 2012, 117, . | 3.3 | 33 |
| 48 | 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 |
| 49 | High resolution full-spectrum water Raman lidar. Science China Technological Sciences, 2012, 55, 1224-1229. | 4.0 | 3 |
| 50 | A Numerical Simulation on Gravity Waves Generated by Thermal Source and their Influences on Mean Flow. Chinese Journal of Geophysics, 2011, 54, 415-426. | 0.2 | 2 |
| 51 | Lidar observations of Fe and Na meteor trails with high temporal resolution. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2367-2372. | 1.6 | 9 |
| 52 | High-altitude sporadic metal atom layers observed with Na and Fe lidars at 30Â°N. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 482-491. | 1.6 | 18 |
| 53 | Preliminary lidar observations of Na meteor trails at Wuhan (30.5Â°N, 114.4Â°E), China. Science Bulletin, 2010, 55, 2422-2427. | 1.7 | 6 |
| 54 | Reflection and transmission of atmospheric gravity waves in a stably sheared horizontal wind field. Journal of Geophysical Research, 2010, 115, . | 3.3 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Behavior of sporadic Na layers on small time scale. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1374-1382. | 1.6 | 12 |
| 56 | Seasonal variations of the nocturnal mesospheric Na and Fe layers at 30Â°N. Journal of Geophysical Research, 2009, 114, . | 3.3 | 33 |
| 57 | Gravity wave excitation through resonant interaction in a compressible atmosphere. Geophysical Research Letters, 2009, 36, . | 4.0 | 22 |
| 58 | Atmospheric temperature profiling by joint Raman, Rayleigh and Fe Boltzmann lidar measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1281-1288. | 1.6 | 12 |
| 59 | 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 |
| 60 | Propagation and reflection of gravity waves in a meridionally sheared wind field. Journal of Geophysical Research, 2008, 113, . | 3.3 | 15 |
| 61 | A numerical study on the response of wave number spectra of atmospheric gravity waves to lower atmospheric forcing. Journal of Geophysical Research, 2008, 113, . | 3.3 | 6 |
| 62 | A numerical study on nonresonant interactions of gravity waves in a compressible atmosphere. Journal of Geophysical Research, 2007, 112, . | 3.3 | 15 |
| 63 | 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 |
| 64 | 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 |
| 65 | Methods for optical adjustment in lidar systems. Applied Optics, 2005, 44, 1480. | 2.1 | 12 |
| 66 | Sodium resonance lidar observations during 2001 Leonid meteor shower over Wuhan. Science Bulletin, 2004, 49, 303-306. | 1.7 | 7 |
| 67 | A numerical study on global propagations and amplitude growths of large-scale gravity wave packets. Journal of Geophysical Research, 2004, 109, . | 3.3 | 11 |
| 68 | A numerical study on the propagation and evolution of resonant interacting gravity waves. Journal of Geophysical Research, 2004, 109, . | 3.3 | 18 |
| 69 | 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 |
| 70 | Lidar observations of sporadic Na layers over Wuhan (30.5Â°N, 114.4Â°E). Geophysical Research Letters, 2002, 29, 59-1-59-4. | 4.0 | 32 |