

Pucai Wang

List of Publications by Year in descending order

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79
papers

3,610
citations

126708

33
h-index

138251

58
g-index

80
all docs

80
docs citations

80
times ranked

3856
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol optical properties and their radiative effects in northern China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	209
2	A simple method to estimate actual evapotranspiration from a combination of net radiation, vegetation index, and temperature. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	200
3	Aerosol optical depth (AOD) and Ångström exponent of aerosols observed by the Chinese Sun Hazemeter Network from August 2004 to September 2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	166
4	Estimation of surface long wave radiation and broadband emissivity using Moderate Resolution Imaging Spectroradiometer (MODIS) land surface temperature/emissivity products. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	164
5	Validation of SO ₂ retrievals from the Ozone Monitoring Instrument over NE China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	139
6	Influences of urbanization on surface characteristics as derived from the Moderate Resolution Imaging Spectroradiometer: A case study for the Beijing metropolitan area. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	137
7	Chemical characterization of air pollution in Eastern China and the Eastern United States. <i>Atmospheric Environment</i> , 2006, 40, 2607-2625.	1.9	134
8	Aerosol optical properties and radiative effects in the Yangtze Delta region of China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	120
9	The Campaign on Atmospheric Aerosol Research Network of China: CARE-China. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1137-1155.	1.7	115
10	Baseline continental aerosol over the central Tibetan plateau and a case study of aerosol transport from South Asia. <i>Atmospheric Environment</i> , 2011, 45, 7370-7378.	1.9	112
11	Validation and understanding of Moderate Resolution Imaging Spectroradiometer aerosol products (C5) using ground-based measurements from the handheld Sun photometer network in China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	108
12	Variation of surface albedo and soil thermal parameters with soil moisture content at a semi-desert site on the western Tibetan Plateau. <i>Boundary-Layer Meteorology</i> , 2005, 116, 117-129.	1.2	93
13	Aerosol characterization over the North China Plain: Haze life cycle and biomass burning impacts in summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2508-2521.	1.2	93
14	In situ measurements of trace gases and aerosol optical properties at a rural site in northern China during East Asian Study of Tropospheric Aerosols: An International Regional Experiment 2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	91
15	Seasonal variations in aerosol optical properties over China. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	87
16	Improved aerosol correction for OMI tropospheric NO ₂ retrieval over East Asia: constraint from CALIOP aerosol vertical profile. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1-21.	1.2	75
17	Aerosol optical depth over the Tibetan Plateau and its relation to aerosols over the Taklimakan Desert. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	72
18	Low-level temperature inversions and their effect on aerosol condensation nuclei concentrations under different large-scale synoptic circulations. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 898-908.	1.9	72

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19	Vertical profiles of black carbon measured by a micro-aethalometer in summer in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10441-10454.	1.9	72
20	Positive relationship between liquid cloud droplet effective radius and aerosol optical depth over Eastern China from satellite data. <i>Atmospheric Environment</i> , 2014, 84, 244-253.	1.9	66
21	TROPOMI Sentinel-5 Precursor formaldehyde validation using an extensive network of ground-based Fourier-transform infrared stations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3751-3767.	1.2	66
22	Climatological aspects of aerosol optical properties in North China Plain based on ground and satellite remote-sensing data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 127, 12-23.	1.1	60
23	Identification of sources and formation processes of atmospheric sulfate by sulfur isotope and scanning electron microscope measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
24	Significant reduction of surface solar irradiance induced by aerosols in a suburban region in northeastern China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	57
25	Validation of methane and carbon monoxide from Sentinel-5 Precursor using TCCON and NDACC-IRWG stations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6249-6304.	1.2	57
26	Trends in aerosol optical properties over the Bohai Rim in Northeast China from 2004 to 2010. <i>Atmospheric Environment</i> , 2011, 45, 6317-6325.	1.9	56
27	Comparison and Validation of TROPOMI and OMI NO ₂ Observations over China. <i>Atmosphere</i> , 2020, 11, 636.	1.0	49
28	Diurnal variability of dust aerosol optical thickness and Angstr�m exponent over dust source regions in China. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	47
29	Growth rates of fine aerosol particles at a site near Beijing in June 2013. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 209-217.	1.9	45
30	Spatial and temporal changes in SO ₂ regimes over China in the recent decade and the driving mechanism. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 18063-18078.	1.9	44
31	Impacts of organic aerosols and its oxidation level on CCN activity from measurement at a suburban site in China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5413-5425.	1.9	42
32	Comparison between measurements and modeling of UV-B irradiance for clear sky: a case study. <i>Applied Optics</i> , 1994, 33, 3964.	2.1	41
33	The Spatial Temporal Variation of Tropospheric NO ₂ over China during 2005 to 2018. <i>Atmosphere</i> , 2019, 10, 444.	1.0	39
34	Studying the pollution of Moscow and Beijing atmospheres with carbon monoxide and aerosol. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2015, 51, 1-11.	0.2	32
35	Validation of an UV inversion algorithm using satellite and surface measurements. <i>Journal of Geophysical Research</i> , 2000, 105, 5037-5048.	3.3	31
36	A simple and efficient method for retrieving surface UV radiation dose rate from satellite. <i>Journal of Geophysical Research</i> , 2000, 105, 5027-5036.	3.3	30

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37	Validation of MODIS aerosol products by CSHNET over China. <i>Science Bulletin</i> , 2007, 52, 1708-1718.	1.7	30
38	Validation of TANSO-FTS/GOSAT XCO ₂ and XCH ₄ glint mode retrievals using TCCON data from near-ocean sites. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1415-1430.	1.2	30
39	CFC-11, CFC-12 and HCFC-22 ground-based remote sensing FTIR measurements at RÅ©union Island and comparisons with MIPAS/ENVISAT data. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5621-5636.	1.2	29
40	New ground-based Fourier-transform near-infrared solar absorption measurements of XCO ₂ , XCH ₄ and XCO at Xianghe, China. <i>Earth System Science Data</i> , 2020, 12, 1679-1696.	3.7	28
41	Midlatitude cirrus cloud radiative forcing over China. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
42	In situ measurements of aerosol mass concentration and radiative properties in Xianghe, southeast of Beijing. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	24
43	Advances in sunphotometer-measured aerosol optical properties and related topics in China: Impetus and perspectives. <i>Atmospheric Research</i> , 2021, 249, 105286.	1.8	23
44	Change of NO ₂ column density over Beijing from satellite measurement during the Beijing 2008 Olympic Games. <i>Science Bulletin</i> , 2010, 55, 308-313.	1.7	21
45	Long-Term Trends of Carbon Monoxide Total Columnar Amount in Urban Areas and Background Regions: Ground- and Satellite-based Spectroscopic Measurements. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 785-795.	1.9	21
46	Analysis of Low-level Temperature Inversions and Their Effects on Aerosols in the Lower Atmosphere. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 1235-1250.	1.9	21
47	Observed decreases in on-road CO ₂ concentrations in Beijing during COVID-19 restrictions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4599-4614.	1.9	21
48	Aerosol chemistry and particle growth events at an urban downwind site in North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14637-14651.	1.9	19
49	The aerosol direct radiative forcing over the Beijing metropolitan area from 2004 to 2011. <i>Journal of Aerosol Science</i> , 2014, 69, 62-70.	1.8	18
50	New dust aerosol identification method for spaceborne lidar measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 338-345.	1.1	17
51	Cirrus cloud macrophysical and optical properties over North China from CALIOP measurements. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 653-664.	1.9	14
52	Nocturnal aerosol particle formation in the North China Plain. <i>Lithuanian Journal of Physics</i> , 2015, 55, .	0.1	13
53	Effects of ocean particles on the upwelling radiance and polarized radiance in the atmosphere-ocean system. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 1186-1196.	1.9	12
54	Assessment of the Performance of TROPOMI NO ₂ and SO ₂ Data Products in the North China Plain: Comparison, Correction and Application. <i>Remote Sensing</i> , 2022, 14, 214.	1.8	12

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55	XCO ₂ satellite retrieval experiments in short-wave infrared spectrum and ground-based validation. <i>Science China Earth Sciences</i> , 2015, 58, 1191-1197.	2.3	11
56	Ground-based FTIR retrievals of SF ₆ on Reunion Island. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 651-662.	1.2	11
57	Estimation of PM _{2.5} Mass Concentration from Visibility. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 671-678.	1.9	11
58	Ground-based measurements of aerosol optical properties and radiative forcing in North China. <i>Particology: Science and Technology of Particles</i> , 2007, 5, 202-205.	0.4	10
59	Global to local impacts on atmospheric CO ₂ from the COVID-19 lockdown, biosphere and weather variabilities. <i>Environmental Research Letters</i> , 2022, 17, 015003.	2.2	10
60	Deriving Temporal and Vertical Distributions of Methane in Xianghe Using Ground-based Fourier Transform Infrared and Gas-analyzer Measurements. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 597-607.	1.9	9
61	Spatial and temporal variations of CO ₂ mole fractions observed at Beijing, Xianghe, and Xinglong in North China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11741-11757.	1.9	9
62	Ground-based Fourier transform infrared (FTIR) O ₃ retrievals from the 3040-1100 cm ⁻¹ spectral range at Xianghe, China. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5379-5394.	1.2	9
63	Oscillation cumulative volatile organic compounds on the northern edge of the North China Plain: Impact of mountain-plain breeze. <i>Science of the Total Environment</i> , 2022, 821, 153541.	3.9	9
64	Surface and Column-Integrated Aerosol Properties of Heavy Haze Events in January 2013 over the North China Plain. <i>Aerosol and Air Quality Research</i> , 2015, 15, 1514-1524.	0.9	8
65	CHANGES IN TRENDS OF ATMOSPHERIC COMPOSITION OVER URBAN AND BACKGROUND REGIONS OF EURASIA: ESTIMATES BASED ON SPECTROSCOPIC OBSERVATIONS. <i>Geography, Environment, Sustainability</i> , 2018, 11, 84-96.	0.6	7
66	Glyoxal tropospheric column retrievals from TROPOMI " multi-satellite intercomparison and ground-based validation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7775-7807.	1.2	7
67	Recent progress in atmospheric observation research in China. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 940-953.	1.9	6
68	A New Method to Calibrate Shortwave Solar Radiation Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1321-1329.	0.5	6
69	Characterization of Regional Combustion Efficiency using $\hat{\tau}^{XCO}$: $\hat{\tau}^{XCO_2}$ Observed by a Portable Fourier-Transform Spectrometer at an Urban Site in Beijing. <i>Advances in Atmospheric Sciences</i> , 2022, , 1-17.	1.9	6
70	Re-examine the APEC blue in Beijing 2014. <i>Journal of Atmospheric Chemistry</i> , 2018, 75, 235-246.	1.4	5
71	<title>Preliminary accuracy assessment of MODIS land surface temperature products at a semi-desert site</title>. , 2005, , .		4
72	In-situ measurement of CO ₂ at the Xinglong regional background station over North China. <i>Atmospheric and Oceanic Science Letters</i> , 2019, 12, 385-391.	0.5	4

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73	Correction to "Aerosol optical properties and their radiative effects in northern China", Journal of Geophysical Research, 2008, 113, .	3.3	3
74	Radiative Transfer Model Simulations for Ground-Based Microwave Radiometers in North China. Remote Sensing, 2021, 13, 5161.	1.8	3
75	Tropospheric and stratospheric NO retrieved from ground-based Fourier-transform infrared (FTIR) measurements. Atmospheric Measurement Techniques, 2021, 14, 6233-6247.	1.2	2
76	Preliminary comparison of OMI PBL SO2 data to in-situ measurements in Beijing. , 2008, , .		1
77	Measurement and analysis of atmospheric aerosol optical thickness and Angstrom exponent of 1998-2000 over the Beijing area. , 2003, , .		0
78	<title>Ground-based monitoring of CO and H$_2$ total content in the atmosphere over Beijing</title>. , 2005, 5832, 316.		0
79	Calibration and Data Quality Assurance Technical Advancements for Quantitative Remote Sensing in the DRAGON 4 Project. Remote Sensing, 2021, 13, 4996.	1.8	0