

# Peng Xian

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,310  
citations

361045

20  
h-index

360668

35  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1837  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. <i>Atmospheric Research</i> , 2013, 122, 403-468.	1.8	269
2	Multi-scale meteorological conceptual analysis of observed active fire hotspot activity and smoke optical depth in the Maritime Continent. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2117-2147.	1.9	134
3	Analysis of aerosol composition data for western United States wildfires between 2005 and 2015: Dust emissions, chloride depletion, and most enhanced aerosol constituents. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8951-8966.	1.2	86
4	Smoke aerosol transport patterns over the Maritime Continent. <i>Atmospheric Research</i> , 2013, 122, 469-485.	1.8	70
5	Current state of the global operational aerosol multi-model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 176-209.	1.0	66
6	Has China been exporting less particulate air pollution over the past decade?. <i>Geophysical Research Letters</i> , 2017, 44, 2941-2948.	1.5	63
7	Observations of the Interaction and Transport of Fine Mode Aerosols With Cloud and/or Fog in Northeast Asia From Aerosol Robotic Network and Satellite Remote Sensing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5560-5587.	1.2	49
8	Assimilation of AERONET and MODIS AOT observations using variational and ensemble data assimilation methods and its impact on aerosol forecasting skill. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4967-4992.	1.2	47
9	Aerosol meteorology of Maritime Continent for the 2012 7SEAS southwest monsoon intensive study " Part 2: Philippine receptor observations of fine-scale aerosol behavior. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14057-14078.	1.9	38
10	Impact of modeled versus satellite measured tropical precipitation on regional smoke optical thickness in an aerosol transport model. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	35
11	Dissolved black carbon in the global cryosphere: Concentrations and chemical signatures. <i>Geophysical Research Letters</i> , 2017, 44, 6226-6234.	1.5	34
12	Impact of North American intense fires on aerosol optical properties measured over the European Arctic in July 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,487.	1.2	31
13	Aerosol meteorology of the Maritime Continent for the 2012 7SEAS southwest monsoon intensive study " Part 1: regional-scale phenomena. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14041-14056.	1.9	28
14	Simulations of the effect of intensive biomass burning in July 2015 on Arctic radiative budget. <i>Atmospheric Environment</i> , 2017, 171, 248-260.	1.9	28
15	Size-resolved aerosol and cloud condensation nuclei (CCN) properties in the remote marine South China Sea " Part 1: Observations and source classification. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1105-1123.	1.9	28
16	Abrupt Seasonal Migration of the ITCZ into the Summer Hemisphere. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1878-1895.	0.6	25
17	Biomass Burning Plumes in the Vicinity of the California Coast: Airborne Characterization of Physicochemical Properties, Heating Rates, and Spatiotemporal Features. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,560.	1.2	25
18	Investigating size-segregated sources of elemental composition of particulate matter in the South China Sea during the 2011 &lt;i>Vasco&lt;i>;cruise. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1255-1276.	1.9	23

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19	Aerosol Microbiome over the Mediterranean Sea Diversity and Abundance. <i>Atmosphere</i> , 2019, 10, 440.	1.0	22
20	Local Emissions and Regional Wildfires Influence Refractory Black Carbon Observations Near Palmer Station, Antarctica. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	21
21	Near-surface Refractory Black Carbon Observations in the Atmosphere and Snow in the McMurdo Dry Valleys, Antarctica, and Potential Impacts of Foehn Winds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2877-2887.	1.2	20
22	Exploring the first aerosol indirect effect over Southeast Asia using a 10-year collocated MODIS, CALIOP, and model dataset. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12747-12764.	1.9	20
23	An assessment of satellite-based high resolution precipitation datasets for atmospheric composition studies in the maritime continent. <i>Atmospheric Research</i> , 2013, 122, 579-598.	1.8	19
24	Revisiting the relationship between Atlantic dust and tropical cyclone activity using aerosol optical depth reanalyses: 2003-2018. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15357-15378.	1.9	19
25	Mesoscale modeling of smoke transport from equatorial Southeast Asian Maritime Continent to the Philippines: First comparison of ensemble analysis with in situ observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5380-5398.	1.2	18
26	Role of the Madden-Julian Oscillation in the Transport of Smoke From Sumatra to the Malay Peninsula During Severe Non-Haze Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6282-6294.	1.2	17
27	Supporting Weather Forecasters in Predicting and Monitoring Saharan Air Layer Dust Events as They Impact the Greater Caribbean. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 259-268.	1.7	14
28	Development of an Ozone Monitoring Instrument (OMI) aerosol index (AI) data assimilation scheme for aerosol modeling over bright surfaces - a step toward direct radiance assimilation in the UV spectrum. <i>Geoscientific Model Development</i> , 2021, 14, 27-42.	1.3	10
29	Extreme smoke event over the high Arctic. <i>Atmospheric Environment</i> , 2019, 218, 117002.	1.9	9
30	Biofuel Burning Influences Refractory Black Carbon Concentrations in Seasonal Snow at Lower Elevations of the Dudh Koshi River Basin of Nepal. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	8
31	Simulation of long-term direct aerosol radiative forcing over the arctic within the framework of the iAREA project. <i>Atmospheric Environment</i> , 2021, 244, 117882.	1.9	8
32	The impact of moderately absorbing aerosol on surface sensible, latent, and net radiative fluxes during the summer of 2015 in Central Europe. <i>Journal of Aerosol Science</i> , 2021, 151, 105627.	1.8	8
33	A Coupled Evaluation of Operational MODIS and Model Aerosol Products for Maritime Environments Using Sun Photometry: Evaluation of the Fine and Coarse Mode. <i>Remote Sensing</i> , 2022, 14, 2978.	1.8	6
34	Quantifying the direct radiative effect of absorbing aerosols for numerical weather prediction: a case study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 205-218.	1.9	5
35	Seasonal comparisons of GEOS-Chem-TOMAS (GCT) simulations with AERONET-inversion retrievals over sites in the North American and European Arctic. <i>Atmospheric Environment</i> , 2022, 271, 118852.	1.9	2
36	Predicting Vertical Concentration Profiles in the Marine Atmospheric Boundary Layer With a Markov Chain Random Walk Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032731.	1.2	1

#	ARTICLE	IF	CITATIONS
37	Community Challenges and Prospects in the Operational Forecasting of Extreme Biomass Burning Smoke. , 2021, , .		0