Peng Xian

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Seasonal comparisons of GEOS-Chem-TOMAS (GCT) simulations with AERONET-inversion retrievals over sites in the North American and European Arctic. Atmospheric Environment, 2022, 271, 118852.	4.1	2
2	A Coupled Evaluation of Operational MODIS and Model Aerosol Products for Maritime Environments Using Sun Photometry: Evaluation of the Fine and Coarse Mode. Remote Sensing, 2022, 14, 2978.	4.0	6
3	Simulation of long-term direct aerosol radiative forcing over the arctic within the framework of the iAREA project. Atmospheric Environment, 2021, 244, 117882.	4.1	8
4	The impact of moderately absorbing aerosol on surface sensible, latent, and net radiative fluxes during the summer of 2015 in Central Europe. Journal of Aerosol Science, 2021, 151, 105627.	3.8	8
5	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. Geoscientific Model Development, 2021, 14, 27-42.	3.6	10
6	Community Challenges and Prospects in the Operational Forecasting of Extreme Biomass Burning Smoke. , 2021, , .		0
7	Biofuel Burning Influences Refractory Black Carbon Concentrations in Seasonal Snow at Lower Elevations of the Dudh Koshi River Basin of Nepal. Frontiers in Earth Science, 2020, 8, .	1.8	8
8	Predicting Vertical Concentration Profiles in the Marine Atmospheric Boundary Layer With a Markov Chain Random Walk Model. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032731.	3.3	1
9	Investigating size-segregated sources of elemental composition of particulate matter in the South China Sea during the 2011 <i>Vasco</i> cruise. Atmospheric Chemistry and Physics, 2020, 20, 1255-1276.	4.9	23
10	Revisiting the relationship between Atlantic dust and tropical cyclone activity using aerosol optical depth reanalyses: 2003–2018. Atmospheric Chemistry and Physics, 2020, 20, 15357-15378.	4.9	19
11	Extreme smoke event over the high Arctic. Atmospheric Environment, 2019, 218, 117002.	4.1	9
12	Aerosol Microbiome over the Mediterranean Sea Diversity and Abundance. Atmosphere, 2019, 10, 440.	2.3	22
13	Local Emissions and Regional Wildfires Influence Refractory Black Carbon Observations Near Palmer Station, Antarctica. Frontiers in Earth Science, 2019, 7, .	1.8	21
14	Current state of the global operational aerosol multiâ€model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). Quarterly Journal of the Royal Meteorological Society, 2019, 145, 176-209.	2.7	66
15	Quantifying the direct radiative effect of absorbing aerosols for numerical weather prediction: a case study. Atmospheric Chemistry and Physics, 2019, 19, 205-218.	4.9	5
16	Nearâ€ S urface Refractory Black Carbon Observations in the Atmosphere and Snow in the McMurdo Dry Valleys, Antarctica, and Potential Impacts of Foehn Winds. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2877-2887.	3.3	20
17	Supporting Weather Forecasters in Predicting and Monitoring Saharan Air Layer Dust Events as They Impact the Greater Caribbean. Bulletin of the American Meteorological Society, 2018, 99, 259-268.	3.3	14
18	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. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5560-5587.	3.3	49

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19	Biomass Burning Plumes in the Vicinity of the California Coast: Airborne Characterization of Physicochemical Properties, Heating Rates, and Spatiotemporal Features. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,560.	3.3	25
20	Exploring the first aerosol indirect effect over Southeast Asia using a 10-year collocated MODIS, CALIOP, and model dataset. Atmospheric Chemistry and Physics, 2018, 18, 12747-12764.	4.9	20
21	Role of the Maddenâ€Julian Oscillation in the Transport of Smoke From Sumatra to the Malay Peninsula During Severe Nonâ€El Niño Haze Events. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6282-6294.	3.3	17
22	Mesoscale modeling of smoke transport from equatorial Southeast Asian Maritime Continent to the Philippines: First comparison of ensemble analysis with in situ observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5380-5398.	3.3	18
23	Dissolved black carbon in the global cryosphere: Concentrations and chemical signatures. Geophysical Research Letters, 2017, 44, 6226-6234.	4.0	34
24	Has China been exporting less particulate air pollution over the past decade?. Geophysical Research Letters, 2017, 44, 2941-2948.	4.0	63
25	Simulations of the effect of intensive biomass burning in July 2015 on Arctic radiative budget. Atmospheric Environment, 2017, 171, 248-260.	4.1	28
26	Analysis of aerosol composition data for western United States wildfires between 2005 and 2015: Dust emissions, chloride depletion, and most enhanced aerosol constituents. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8951-8966.	3.3	86
27	Assimilation of AERONET and MODIS AOT observations using variational and ensemble data assimilation methods and its impact on aerosol forecasting skill. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4967-4992.	3.3	47
28	Size-resolved aerosol and cloud condensation nuclei (CCN) properties in the remote marine South China Sea – Part 1: Observations and source classification. Atmospheric Chemistry and Physics, 2017, 17, 1105-1123.	4.9	28
29	Impact of North American intense fires on aerosol optical properties measured over the European Arctic in July 2015. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,487.	3.3	31
30	Aerosol meteorology of the Maritime Continent for the 2012 7SEAS southwest monsoon intensive study – Part 1: regional-scale phenomena. Atmospheric Chemistry and Physics, 2016, 16, 14041-14056.	4.9	28
31	Aerosol meteorology of Maritime Continent for the 2012 7SEAS southwest monsoon intensive study – Part 2: Philippine receptor observations of fine-scale aerosol behavior. Atmospheric Chemistry and Physics, 2016, 16, 14057-14078.	4.9	38
32	An assessment of satellite-based high resolution precipitation datasets for atmospheric composition studies in the maritime continent. Atmospheric Research, 2013, 122, 579-598.	4.1	19
33	Smoke aerosol transport patterns over the Maritime Continent. Atmospheric Research, 2013, 122, 469-485.	4.1	70
34	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. Atmospheric Research, 2013, 122, 403-468.	4.1	269
35	Multi-scale meteorological conceptual analysis of observed active fire hotspot activity and smoke optical depth in the Maritime Continent. Atmospheric Chemistry and Physics, 2012, 12, 2117-2147.	4.9	134
36	Impact of modeled versus satellite measured tropical precipitation on regional smoke optical thickness in an aerosol transport model. Geophysical Research Letters, 2009, 36, .	4.0	35

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37	Abrupt Seasonal Migration of the ITCZ into the Summer Hemisphere. Journals of the Atmospheric Sciences, 2008, 65, 1878-1895.	1.7	25