Peng Lynch

List of Publications by Year
in descending order

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34	1,216	394421	395702
papers	citations	19	33
		h-index	g-index

55	55	55	1632
all docs	docs citations	times ranked	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. Atmospheric Research, 2013, 122, 403-468.	4.1	269
2	An 11-year global gridded aerosol optical thickness reanalysis (v1.0) for atmospheric and climate sciences. Geoscientific Model Development, 2016, 9, 1489-1522.	3.6	149
3	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
4	Smoke aerosol transport patterns over the Maritime Continent. Atmospheric Research, 2013, 122, 469-485.	4.1	70
5	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
6	Development of the Ensemble Navy Aerosol Analysis Prediction System (ENAAPS) and its application of the Data Assimilation Research Testbed (DART) in support of aerosol forecasting. Atmospheric Chemistry and Physics, 2016, 16, 3927-3951.	4.9	56
7	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
8	Aerosol meteorology of Maritime Continent for the 2012 7SEAS southwest monsoon intensive study â€“ Part 2: Philippine receptor observations of fine-scale aerosol behavior. Atmospheric Chemistry and Physics, 2016, 16, 14057-14078.	4.9	38
9	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
10	Dissolved black carbon in the global cryosphere: Concentrations and chemical signatures. Geophysical Research Letters, 2017, 44, 6226-6234.	4.0	34
11	Applying Advanced Ground-Based Remote Sensing in the Southeast Asian Maritime Continent to Characterize Regional Proficiencies in Smoke Transport Modeling. Journal of Applied Meteorology and Climatology, 2016, 55, 3-22.	1.5	31
12	Aerosol meteorology of the Maritime Continent for the 2012 7SEAS southwest monsoon intensive study â€“ Part 1: regional-scale phenomena. Atmospheric Chemistry and Physics, 2016, 16, 14041-14056.	4.9	28
13	Size-resolved aerosol and cloud condensation nuclei (CCN) properties in the remote marine South China Sea â€“ Part 1: Observations and source classification. Atmospheric Chemistry and Physics, 2017, 17, 1105-1123.	4.9	28
14	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
15	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
16	Aerosol Microbiome over the Mediterranean Sea Diversity and Abundance. Atmosphere, 2019, 10, 440.	2.3	22
17	Contrasting cloud composition between coupled and decoupled marine boundary layer clouds. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,679.	3.3	21
18	Local Emissions and Regional Wildfires Influence Refractory Black Carbon Observations Near Palmer Station, Antarctica. Frontiers in Earth Science, 2019, 7, .	1.8	21

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19	Nearâ€Surface 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
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	Revisiting the relationship between Atlantic dust and tropical cyclone activity using aerosol optical depth reanalyses: 2003â€“2018. Atmospheric Chemistry and Physics, 2020, 20, 15357-15378.	4.9	19
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	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
24	Bio-Aerosols Negatively Affect Prochlorococcus in Oligotrophic Aerosol-Rich Marine Regions. Atmosphere, 2020, 11, 540.	2.3	11
25	Development of an Ozone Monitoring Instrument (OMI) aerosol index (AI) data assimilation scheme for aerosol modeling over bright surfaces â€“ a step toward direct radiance assimilation in the UV spectrum. Geoscientific Model Development, 2021, 14, 27-42.	3.6	10
26	Extreme smoke event over the high Arctic. Atmospheric Environment, 2019, 218, 117002.	4.1	9
27	Saharan dust deposition initiates successional patterns among marine microbes in the Western Atlantic. Limnology and Oceanography, 2020, 65, 191-203.	3.1	8
28	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
29	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
30	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
31	Evidence of haze-driven secondary production of supermicrometer aerosol nitrate and sulfate in size distribution data in South Korea. Atmospheric Chemistry and Physics, 2022, 22, 7505-7522.	4.9	4
32	A fast visible-wavelength 3D radiative transfer model for numerical weather prediction visualization and forward modeling. Atmospheric Measurement Techniques, 2020, 13, 3235-3261.	3.1	3
33	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
34	Community Challenges and Prospects in the Operational Forecasting of Extreme Biomass Burning Smoke. , 2021, , .		0