David Painemal

List of Publications by Year
in descending order

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35 papers	1,241 citations	430874 18 h-index	377865 34 g-index
37 all docs	37 docs citations	37 times ranked	1157 citing authors

#	Article	IF	Citations
1	Large-Eddy Simulations of Marine Boundary Layer Clouds Associated with Cold-Air Outbreaks during the ACTIVATE Campaign. Part I: Case Setup and Sensitivities to Large-Scale Forcings. Journals of the Atmospheric Sciences, 2022, 79, 73-100.	1.7	8
2	Modeled and observed properties related to the direct aerosol radiative effect of biomass burning aerosol over the southeastern Atlantic. Atmospheric Chemistry and Physics, 2022, 22, 1-46.	4.9	22
3	The impact of sampling strategy on the cloud droplet number concentration estimated from satellite data. Atmospheric Measurement Techniques, 2022, 15, 3875-3892.	3.1	15
4	CERES MODIS Cloud Product Retrievals for Edition 4â€”Part I: Algorithm Changes. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2744-2780.	6.3	75
5	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast â€“ Part 1: Analysis of Aerosols, Gases, and Wet Deposition Chemistry. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032592.	3.3	18
6	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coastâ€”Part 2: Circulation, Boundary Layer, and Clouds. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033423.	3.3	26
7	An Aerosol Climatology and Implications for Clouds at a Remote Marine Site: Case Study Over Bermuda. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034038.	3.3	12
8	Cloud drop number concentrations over the western North Atlantic Ocean: seasonal cycle, aerosol interrelationships, and other influential factors. Atmospheric Chemistry and Physics, 2021, 21, 10499-10526.	4.9	20
9	On Assessing ERA5 and MERRA2 Representations of Coldâ€Air Outbreaks Across the Gulf Stream. Geophysical Research Letters, 2021, 48, e2021GL094364.	4.0	19
10	Biomass Burning Over the United States East Coast and Western North Atlantic Ocean: Implications for Clouds and Air Quality. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034916.	3.3	10
11	Evaluation of satellite retrievals of liquid clouds from the GOES-13 imager and MODIS over the midlatitude North Atlantic during the NAAMES campaign. Atmospheric Measurement Techniques, 2021, 14, 6633-6646.	3.1	16
12	Reducing uncertainties in satellite estimates of aerosolâ€“cloud interactions over the subtropical ocean by integrating vertically resolved aerosol observations. Atmospheric Chemistry and Physics, 2020, 20, 7167-7177.	4.9	17
13	Atmospheric Research Over the Western North Atlantic Ocean Region and North American East Coast: A Review of Past Work and Challenges Ahead. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031626.	3.3	35
14	Novel aerosol extinction coefficients and lidar ratios over the ocean from CALIPSOâ€“CloudSat: evaluation and global statistics. Atmospheric Measurement Techniques, 2019, 12, 2201-2217.	3.1	13
15	Aerosolâ€“Cloudâ€“Meteorology Interaction Airborne Field Investigations: Using Lessons Learned from the U.S. West Coast in the Design of ACTIVATE off the U.S. East Coast. Bulletin of the American Meteorological Society, 2019, 100, 1511-1528.	3.3	51
16	Global Estimates of Changes in Shortwave Lowâ€Cloud Albedo and Fluxes Due to Variations in Cloud Droplet Number Concentration Derived From CERESâ€MODIS Satellite Sensors. Geophysical Research Letters, 2018, 45, 9288-9296.	4.0	14
17	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. Reviews of Geophysics, 2018, 56, 409-453.	23.0	185
18	Cloud occurrences and cloud radiative effects (CREs) from CERESâ€CALIPSOâ€CloudSatâ€MODIS (CCCM) and CloudSat radarâ€lidar (RL) products. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8852-8884.	3.3	24

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19	Entrainment rate diurnal cycle in marine stratiform clouds estimated from geostationary satellite retrievals and a meteorological forecast model. Geophysical Research Letters, 2017, 44, 7482-7489.	4.0	6
20	Aerosol and cloud microphysics covariability in the northeast Pacific boundary layer estimated with shipâ€based and satellite remote sensing observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2403-2418.	3.3	15
21	Planning the Next Decade of Coordinated Research to Better Understand and Simulate Marine Low Clouds. Bulletin of the American Meteorological Society, 2016, 97, 1699-1702.	3.3	13
22	First extended validation of satellite microwave liquid water path with shipâ€based observations of marine low clouds. Geophysical Research Letters, 2016, 43, 6563-6570.	4.0	16
23	Aerosol variability, synopticâ€scale processes, and their link to the cloud microphysics over the northeast Pacific during MAGIC. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5122-5139.	3.3	17
24	Mean Structure and Diurnal Cycle of Southeast Atlantic Boundary Layer Clouds: Insights from Satellite Observations and Multiscale Modeling Framework Simulations. Journal of Climate, 2015, 28, 324-341.	3.2	25
25	Boundary layer regulation in the southeast Atlantic cloud microphysics during the biomass burning season as seen by the Aâ€train satellite constellation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,288.	3.3	49
26	The Diurnal Cycle of Cloud-Top Height and Cloud Cover over the Southeastern Pacific as Observed by GOES-10. Journals of the Atmospheric Sciences, 2013, 70, 2393-2408.	1.7	30
27	The impact of horizontal heterogeneities, cloud fraction, and liquid water path on warm cloud effective radii from CERES-like Aqua MODIS retrievals. Atmospheric Chemistry and Physics, 2013, 13, 9997-10003.	4.9	30
28	The first aerosol indirect effect quantified through airborne remote sensing during VOCALS-REx. Atmospheric Chemistry and Physics, 2013, 13, 917-931.	4.9	39
29	On the dependence of albedo on cloud microphysics over marine stratocumulus clouds regimes determined from Clouds and the Earth's Radiant Energy System (CERES) data. Journal of Geophysical Research, 2012, 117, .	3.3	11
30	GOESâ€10 microphysical retrievals in marine warm clouds: Multiâ€instrument validation and daytime cycle over the southeast Pacific. Journal of Geophysical Research, 2012, 117, .	3.3	36
31	Correction to â€œOn the dependence of albedo on cloud microphysics over marine stratocumulus clouds regimes determined from Clouds and the Earth's Radiant Energy System (CERES) dataâ€. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	1
32	Assessment of MODIS cloud effective radius and optical thickness retrievals over the Southeast Pacific with VOCALS-REx in situ measurements. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	177
33	Microphysical variability in southeast Pacific Stratocumulus clouds: synoptic conditions and radiative response. Atmospheric Chemistry and Physics, 2010, 10, 6255-6269.	4.9	50
34	Southeast Pacific Stratocumulus: High-Frequency Variability and Mesoscale Structures over San FÃ©lix Island. Journal of Applied Meteorology and Climatology, 2010, 49, 463-477.	1.5	29
35	Stratocumulus Cloud-Top Height Estimates and Their Climatic Implications. Journal of Climate, 2009, 22, 4652-4666.	3.2	116