

Ewan C Crosbie

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

1,109
citations

19
h-index

32
g-index

66
ext. papers

1,509
ext. citations

6.3
avg, IF

4.05
L-index

#	Paper	IF	Citations
54	Biofuel blending reduces particle emissions from aircraft engines at cruise conditions. <i>Nature</i> , 2017 , 543, 411-415	50.4	148
53	Substantial Seasonal Contribution of Observed Biogenic Sulfate Particles to Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018 , 8, 3235	4.9	65
52	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	58
51	Frequency and Character of Extreme Aerosol Events in the Southwestern United States: A Case Study Analysis in Arizona. <i>Atmosphere</i> , 2016 , 7,	2.7	54
50	Dimethylamine as a major alkyl amine species in particles and cloud water: Observations in semi-arid and coastal regions. <i>Atmospheric Environment</i> , 2015 , 122, 250-258	5.3	53
49	An overview of regional and local characteristics of aerosols in South Africa using satellite, ground, and modeling data. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 4259-4278	6.8	53
48	Airborne characterization of subsaturated aerosol hygroscopicity and dry refractive index from the surface to 6.5 km during the SEAC4RS campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4188-4210	4.4	52
47	Surface and Airborne Measurements of Organosulfur and Methanesulfonate Over the Western United States and Coastal Areas. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 8535-8548	4.4	47
46	Impact of Wildfire Emissions on Chloride and Bromide Depletion in Marine Aerosol Particles. <i>Environmental Science & Technology</i> , 2017 , 51, 9013-9021	10.3	41
45	On the competition among aerosol number, size and composition in predicting CCN variability: a multi-annual field study in an urbanized desert. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6943-6958	6.8	40
44	Impact of Alternative Jet Fuels on Engine Exhaust Composition During the 2015 ECLIF Ground-Based Measurements Campaign. <i>Environmental Science & Technology</i> , 2018 , 52, 4969-4978	10.3	29
43	Intraseasonal Modulation of Synoptic-Scale Disturbances and Tropical Cyclone Genesis in the Eastern North Pacific. <i>Journal of Climate</i> , 2014 , 27, 5724-5745	4.4	28
42	AEROSOL-CLOUD-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. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1511-1528	6.1	26
41	An investigation of the aerodynamic admittances and aerodynamic weighting functions of trains. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2009 , 97, 512-522	3.7	26
40	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	4.4	22
39	Relationships between giant sea salt particles and clouds inferred from aircraft physicochemical data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3421-3434	4.4	21
38	New particle formation in the remote marine boundary layer. <i>Nature Communications</i> , 2021 , 12, 527	17.4	21

37	Characteristic Vertical Profiles of Cloud Water Composition in Marine Stratocumulus Clouds and Relationships With Precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 3704-3723	4.4	20
36	Stratocumulus Cloud Clearings and Notable Thermodynamic and Aerosol Contrasts across the Clear/Cloudy Interface. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 1083-1099	2.1	20
35	Atmospheric Research Over the Western North Atlantic Ocean Region and North American East Coast: A Review of Past Work and Challenges Ahead. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031626	4.4	19
34	A multi-year data set on aerosol-cloud-precipitation-meteorology interactions for marine stratocumulus clouds. <i>Scientific Data</i> , 2018 , 5, 180026	8.2	18
33	Ambient observations of sub-1.0 hygroscopic growth factor and (RH) values: Case studies from surface and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 661-677	4.4	18
32	Characterization of the Real Part of Dry Aerosol Refractive Index Over North America From the Surface to 12km. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8283	4.4	18
31	Is there an aerosol signature of chemical cloud processing?. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16099-16119	6.8	18
30	Retrievals of cloud droplet size from the research scanning polarimeter data: Validation using in situ measurements. <i>Remote Sensing of Environment</i> , 2018 , 210, 76-95	13.2	17
29	Observational evidence for the convective transport of dust over the Central United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1306-1319	4.4	17
28	Contrasting cloud composition between coupled and decoupled marine boundary layer clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 11,679	4.4	17
27	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1086-1097	4.4	15
26	Aerosol characteristics in the entrainment interface layer in relation to the marine boundary layer and free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1495-1506	6.8	12
25	Effects of Biomass Burning on Stratocumulus Droplet Characteristics, Drizzle Rate, and Composition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12301-12318	4.4	12
24	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090707	4.9	11
23	Cloud Adiabaticity and Its Relationship to Marine Stratocumulus Characteristics Over the Northeast Pacific Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,790	4.4	11
22	Contrasting aerosol refractive index and hygroscopicity in the inflow and outflow of deep convective storms: Analysis of airborne data from DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4565-4577	4.4	9
21	Aircraft Measurements of Total Mercury and Monomethyl Mercury in Summertime Marine Stratus Cloudwater from Coastal California, USA. <i>Environmental Science & Technology</i> , 2018 , 52, 2527-2537	10.3	8
20	Development and characterization of a high-efficiency, aircraft-based axial cyclone cloud water collector. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 5025-5048	4	8

19	Polarimetric retrievals of cloud droplet number concentrations. <i>Remote Sensing of Environment</i> , 2019 , 228, 227-240	13.2	7
18	Stratocumulus cloud clearings: statistics from satellites, reanalysis models, and airborne measurements. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4637-4665	6.8	7
17	Factors controlling marine aerosol size distributions and their climate effects over the northwest Atlantic Ocean region. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1889-1916	6.8	5
16	Sizing response of the Ultra-High Sensitivity Aerosol Spectrometer (UHSAS) and Laser Aerosol Spectrometer (LAS) to changes in submicron aerosol composition and refractive index. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 4517-4542	4	4
15	Observations of Aerosol-Cloud Interactions During the North Atlantic Aerosol and Marine Ecosystem Study. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085851	4.9	3
14	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions		3
13	On the relationship between cloud water composition and cloud droplet number concentration. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7645-7665	6.8	3
12	Measurement report: Long-range transport patterns into the tropical northwest Pacific during the CAMP&sup>2&/sup>Ex aircraft campaign: chemical composition, size distributions, and the impact of convection. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3777-3802	6.8	3
11	New in situ aerosol hyperspectral optical measurements over 300-700 nm [Part 1]: Spectral Aerosol Extinction (SpEx) instrument field validation during the KORUS-OC cruise. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 695-713	4	3
10	Cloud drop number concentrations over the western North Atlantic Ocean: seasonal cycle, aerosol interrelationships, and other influential factors. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10499-10526	6.8	3
9	New in situ aerosol hyperspectral optical measurements over 300-700 nm [Part 2]: Extinction, total absorption, water- and methanol-soluble absorption observed during the KORUS-OC cruise. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 715-736	4	3
8	Evaluation of satellite retrievals of liquid clouds from the GOES-13 imager and MODIS over the midlatitude North Atlantic during the NAAMES campaign. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6633-6646	4	2
7	Linking marine phytoplankton emissions, meteorological processes, and downwind particle properties with FLEXPART. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 831-851	6.8	2
6	Total organic carbon and the contribution from speciated organics in cloud water: airborne data analysis from the CAMP&sup>2&/sup>Ex field campaign. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14109-14129	6.8	2
5	Aerosol responses to precipitation along North American air trajectories arriving at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16121-16141	6.8	1
4	Large-eddy simulations of marine boundary-layer clouds associated with cold air outbreaks during the ACTIVATE campaign [part 1: Case setup and sensitivities to large-scale forcings. <i>Journals of the Atmospheric Sciences</i> , 2021 ,	2.1	1
3	Coupling an online ion conductivity measurement with the particle-into-liquid sampler: Evaluation and modeling using laboratory and field aerosol data. <i>Aerosol Science and Technology</i> , 2020 , 54, 1542-1555	3.4	1
2	Particulate Oxalate-To-Sulfate Ratio as an Aqueous Processing Marker: Similarity Across Field Campaigns and Limitations.. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL096520	4.9	0

- 1 Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast. *Geophysical Research Letters*, **2022**, 49, 4.9 ○