J E Dibb

List of Publications by Year
in descending order

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70 papers	4,799 citations	87723 38 h-index	102304 66 g-index
76 all docs	76 docs citations	76 times ranked	5077 citing authors

#	Article	IF	Citations
1	High levels of nitryl chloride in the polluted subtropical marine boundary layer. Nature Geoscience, 2008, 1, 324-328.	5.4	403
2	Why do models overestimate surface ozone in the Southeast United States?. Atmospheric Chemistry and Physics, 2016, 16, 13561-13577.	1.9	320
3	Evolution of brown carbon in wildfire plumes. Geophysical Research Letters, 2015, 42, 4623-4630.	1.5	284
4	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. Journal of Geophysical Research, 2007, 112, .	3.3	279
5	Results from the DC-8 Inlet Characterization Experiment (DICE): Airborne Versus Surface Sampling of Mineral Dust and Sea Salt Aerosols. Aerosol Science and Technology, 2007, 41, 136-159.	1.5	195
6	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,355.	1.2	176
7	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. Nature Geoscience, 2017, 10, 486-489.	5.4	168
8	Planning, implementation, and scientific goals of the Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys (SEAC⁴RS) field mission. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4967-5009.	1.2	158
9	Nighttime removal of NOxin the summer marine boundary layer. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	127
10	Direct Measurements of the Convective Recycling of the Upper Troposphere. Science, 2007, 315, 816-820.	6.0	114
11	Brown carbon in the continental troposphere. Geophysical Research Letters, 2014, 41, 2191-2195.	1.5	113
12	Arctic Air Pollution: New Insights from POLARCAT-IPY. Bulletin of the American Meteorological Society, 2014, 95, 1873-1895.	1.7	107
13	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. Atmospheric Chemistry and Physics, 2018, 18, 17769-17800.	1.9	105
14	Heterogeneous N₂O₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4345-4372.	1.2	103
15	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. Atmospheric Chemistry and Physics, 2015, 15, 7841-7858.	1.9	96
16	Seasonal distributions of fine aerosol sulfate in the North American Arctic basin during TOPSE. Journal of Geophysical Research, 2003, 108, .	3.3	87
17	Aerosol chemical composition in Asian continental outflow during the TRACE-P campaign: Comparison with PEM-West B. Journal of Geophysical Research, 2003, 108, .	3.3	80
18	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO_x. Environmental Science & Technology, 2018, 52, 13738-13746.	4.6	79

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19	Snow spectral albedo at Summit, Greenland: measurements and numerical simulations based on physical and chemical properties of the snowpack. Cryosphere, 2013, 7, 1139-1160.	1.5	76
20	Simultaneous DOAS and mist-chamber IC measurements of HONO in Houston, TX. Atmospheric Environment, 2010, 44, 4090-4098.	1.9	75
21	Revealing important nocturnal and dayâ€toâ€day variations in fire smoke emissions through a multiplatform inversion. Geophysical Research Letters, 2015, 42, 3609-3618.	1.5	73
22	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7771-7796.	1.2	71
23	Large-scale distributions of tropospheric nitric, formic, and acetic acids over the western Pacific basin during wintertime. Journal of Geophysical Research, 1997, 102, 28303-28313.	3.3	68
24	Seasonal variations in the soluble ion content of snow at Summit. Greenland: Constraints from three years of daily surface snow samples. Atmospheric Environment, 2007, 41, 5007-5019.	1.9	68
25	The distribution of sea-salt aerosol in the global troposphere. Atmospheric Chemistry and Physics, 2019, 19, 4093-4104.	1.9	68
26	Deciphering the Role of Radical Precursors during the Second Texas Air Quality Study. Journal of the Air and Waste Management Association, 2009, 59, 1258-1277.	0.9	65
27	Heterogeneous conversion of nitric acid to nitrous acid on the surface of primary organic aerosol in an urban atmosphere. Atmospheric Environment, 2010, 44, 4081-4089.	1.9	65
28	Neither dust nor black carbon causing apparent albedo decline in Greenland's dry snow zone: Implications for MODIS C5 surface reflectance. Geophysical Research Letters, 2015, 42, 9319-9327.	1.5	64
29	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744.	1.9	62
30	Global Measurements of Brown Carbon and Estimated Direct Radiative Effects. Geophysical Research Letters, 2020, 47, e2020GL088747.	1.5	61
31	Air-snow exchange investigations at Summit, Greenland: An overview. Journal of Geophysical Research, 1997, 102, 26795-26807.	3.3	58
32	A longer vernal window: the role of winter coldness and snowpack in driving spring transitions and lags. Global Change Biology, 2017, 23, 1610-1625.	4.2	57
33	Lightning NO_x Emissions: Reconciling Measured and Modeled Estimates With Updated NO_x Chemistry. Geophysical Research Letters, 2017, 44, 9479-9488.	1.5	56
34	A new method to quantify mineral dust and other aerosol species from aircraft platforms using single-particle mass spectrometry. Atmospheric Measurement Techniques, 2019, 12, 6209-6239.	1.2	55
35	Aerosol chemical composition and distribution during the Pacific Exploratory Mission (PEM) Tropics. Journal of Geophysical Research, 1999, 104, 5785-5800.	3.3	52
36	NO_x Lifetime and NO_y Partitioning During WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9813-9827.	1.2	52

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37	Comparing MODIS daily snow albedo to spectral albedo field measurements in Central Greenland. Remote Sensing of Environment, 2014, 140, 118-129.	4.6	51
38	Quantifying black carbon deposition over the Greenland ice sheet from forest fires in Canada. Geophysical Research Letters, 2017, 44, 7965-7974.	1.5	41
39	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. Bulletin of the American Meteorological Society, 2022, 103, E761-E790.	1.7	39
40	The importance of size ranges in aerosol instrument intercomparisons: a case study for the Atmospheric Tomography Mission. Atmospheric Measurement Techniques, 2021, 14, 3631-3655.	1.2	34
41	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. Communications Earth & Environment, 2021, 2, .	2.6	32
42	Composition and distribution of aerosols over the North Atlantic during the Subsonic Assessment Ozone and Nitrogen Oxide Experiment (SONEX). Journal of Geophysical Research, 2000, 105, 3709-3717.	3.3	31
43	ClNO₂ Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,994.	1.2	31
44	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. Geophysical Research Letters, 2019, 46, 14826-14835.	1.5	28
45	Elements and inorganic ions as source tracers in recent Greenland snow. Atmospheric Environment, 2017, 164, 205-215.	1.9	25
46	Observational Constraints on the Oxidation of NOx in the Upper Troposphere. Journal of Physical Chemistry A, 2016, 120, 1468-1478.	1.1	23
47	Evaluation of nitrous acid sources and sinks in urban outflow. Atmospheric Environment, 2016, 127, 272-282.	1.9	21
48	Wintertime Gasâ€Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,897.	1.2	21
49	Asian dust observed during KORUS-AQ facilitates the uptake and incorporation of soluble pollutants during transport to South Korea. Atmospheric Environment, 2020, 224, 117305.	1.9	21
50	Characteristics and evolution of brown carbon in western United States wildfires. Atmospheric Chemistry and Physics, 2022, 22, 8009-8036.	1.9	21
51	Airborne sampling of aerosol particles: Comparison between surface sampling at Christmas Island and P-3 sampling during PEM-Tropics B. Journal of Geophysical Research, 2003, 108, PEM 2-1.	3.3	20
52	Mercury Speciation at a Coastal Site in the Northern Gulf of Mexico: Results from the Grand Bay Intensive Studies in Summer 2010 and Spring 2011. Atmosphere, 2014, 5, 230-251.	1.0	19
53	Dominance of grain size impacts on seasonal snow albedo at open sites in New Hampshire. Journal of Geophysical Research D: Atmospheres, 2017, 122, 121-139.	1.2	19
54	Limitations in representation of physical processes prevent successful simulation of PM_{2.5} during KORUS-AQ. Atmospheric Chemistry and Physics, 2022, 22, 7933-7958.	1.9	17

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55	Isotopic evidence for dominant secondary production of HONO in near-ground wildfire plumes. Atmospheric Chemistry and Physics, 2021, 21, 13077-13098.	1.9	16
56	Relationships between surface and column aerosol radiative properties and air mass transport at a rural New England site. Journal of Geophysical Research, 2004, 109, .	3.3	15
57	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. Atmospheric Chemistry and Physics, 2021, 21, 15023-15063.	1.9	15
58	Fine Ashâ€Bearing Particles as a Major Aerosol Component in Biomass Burning Smoke. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	13
59	Aerosol pH indicator and organosulfate detectability from aerosol mass spectrometry measurements. Atmospheric Measurement Techniques, 2021, 14, 2237-2260.	1.2	12
60	The reduction of HNO3 by volatile organic compounds emitted by motor vehicles. Atmospheric Environment, 2014, 87, 200-206.	1.9	11
61	Major fraction of black carbon is flushed from the melting New Hampshire snowpack nearly as quickly as soluble impurities. Journal of Geophysical Research D: Atmospheres, 2017, 122, 537-553.	1.2	11
62	A simple model of snow albedo decay using observations from the Community Collaborative Rain, Hail, and Snow-Albedo (CoCoRaHS-Albedo) Network. Journal of Glaciology, 2017, 63, 877-887.	1.1	11
63	Modeled Response of Greenland Snowmelt to the Presence of Biomass Burningâ€Based Absorbing Aerosols in the Atmosphere and Snow. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6122-6141.	1.2	10
64	Reconciling Assumptions in Bottomâ€Up and Topâ€Down Approaches for Estimating Aerosol Emission Rates From Wildland Fires Using Observations From FIREXâ€AQ. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	1.2	10
65	Evidence of Road Salt in New Hampshireâ€™s Snowpack Hundreds of Meters from Roadways. Geosciences (Switzerland), 2017, 7, 54.	1.0	9
66	Assessment of online water-soluble brown carbon measuring systems for aircraft sampling. Atmospheric Measurement Techniques, 2021, 14, 6357-6378.	1.2	8
67	Interferences with aerosol acidity quantification due to gas-phase ammonia uptake onto acidic sulfate filter samples. Atmospheric Measurement Techniques, 2020, 13, 6193-6213.	1.2	6
68	Particulate Oxalateâ€Toâ€Sulfate Ratio as an Aqueous Processing Marker: Similarity Across Field Campaigns and Limitations. Geophysical Research Letters, 2021, 48, e2021GL096520.	1.5	6
69	Impact of environmental variables on the reduction of nitric acid by proxies for volatile organic compounds emitted by motor vehicles. Atmospheric Pollution Research, 2016, 7, 221-227.	1.8	3
70	Atmospheric Blocking Drives Recent Albedo Change Across the Western Greenland Ice Sheet Percolation Zone. Geophysical Research Letters, 2021, 48, e2021GL092814.	1.5	3