Cynthia H Twohy

List of Publications by Year
in descending order

36 papers	3,345 citations	218677 26 h-index	345221 36 g-index
40 all docs	40 docs citations	40 times ranked	3392 citing authors

#	Article	IF	Citations
1	Predicting global atmospheric ice nuclei distributions and their impacts on climate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11217-11222.	7.1	945
2	Clarifying the Dominant Sources and Mechanisms of Cirrus Cloud Formation. Science, 2013, 340, 1320-1324.	12.6	442
3	Saharan dust particles nucleate droplets in eastern Atlantic clouds. Geophysical Research Letters, 2009, 36, .	4.0	174
4	Measurement of Condensed Water Content in Liquid and Ice Clouds Using an Airborne Counterflow Virtual Impactor. Journal of Atmospheric and Oceanic Technology, 1997, 14, 197-202.	1.3	138
5	Effect of changes in relative humidity on aerosol scattering near clouds. Journal of Geophysical Research, 2009, 114, .	3.3	125
6	The Saharan Air Layer and the Fate of African Easterly Wavesâ€"NASA's AMMA Field Study of Tropical Cyclogenesis. Bulletin of the American Meteorological Society, 2009, 90, 1137-1156.	3.3	119
7	Chemical characteristics of ice residual nuclei in anvil cirrus clouds: evidence for homogeneous and heterogeneous ice formation. Atmospheric Chemistry and Physics, 2005, 5, 2289-2297.	4.9	112
8	An overview of aircraft observations from the Pacific Dust Experiment campaign. Journal of Geophysical Research, 2009, 114, .	3.3	109
9	Observations of Clouds, Aerosols, Precipitation, and Surface Radiation over the Southern Ocean: An Overview of CAPRICORN, MARCUS, MICRE, and SOCRATES. Bulletin of the American Meteorological Society, 2021, 102, E894-E928.	3.3	103
10	Deep convection as a source of new particles in the midlatitude upper troposphere. Journal of Geophysical Research, 2002, 107, AAC 6-1-AAC 6-10.	3.3	99
11	Small, highly reflective ice crystals in low-latitude cirrus. Geophysical Research Letters, 2003, 30, .	4.0	98
12	Lightâ€absorbing material extracted from cloud droplets and its effect on cloud albedo. Journal of Geophysical Research, 1989, 94, 8623-8631.	3.3	92
13	Observations of Saharan dust microphysical and optical properties from the Eastern Atlantic during NAMMA airborne field campaign. Atmospheric Chemistry and Physics, 2011, 11, 723-740.	4.9	80
14	Refinements to Ice Particle Mass Dimensional and Terminal Velocity Relationships for Ice Clouds. Part I: Temperature Dependence. Journals of the Atmospheric Sciences, 2007, 64, 1047-1067.	1.7	75
15	Processing of Ice Cloud In Situ Data Collected by Bulk Water, Scattering, and Imaging Probes: Fundamentals, Uncertainties, and Efforts toward Consistency. Meteorological Monographs, 2017, 58, 11.1-11.33.	5.0	56
16	Performance of a Counterflow Virtual Impactor in the NASA Icing Research Tunnel. Journal of Atmospheric and Oceanic Technology, 2003, 20, 781-790.	1.3	54
17	Abundance of fluorescent biological aerosol particles at temperatures conducive to the formation of mixed-phase and cirrus clouds. Atmospheric Chemistry and Physics, 2016, 16, 8205-8225.	4.9	50
18	Simulating Observations of Southern Ocean Clouds and Implications for Climate. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032619.	3.3	42

#	Article	IF	Citations
19	Scavenging of black carbon by ice crystals over the northern Pacific. Geophysical Research Letters, 2008, 35, .	4.0	41
20	Measurement report: Cloud processes and the transport of biological emissions affect southern ocean particle and cloud condensation nuclei concentrations. Atmospheric Chemistry and Physics, 2021, 21, 3427-3446.	4.9	35
21	Comparisons of in situ measurements of cirrus cloud ice water content. Journal of Geophysical Research, 2007, 112, .	3.3	34
22	Impacts of aerosol particles on the microphysical and radiative properties of stratocumulus clouds over the southeast Pacific Ocean. Atmospheric Chemistry and Physics, 2013, 13, 2541-2562.	4.9	34
23	Cloudâ€Nucleating Particles Over the Southern Ocean in a Changing Climate. Earth's Future, 2021, 9, e2020EF001673.	6.3	33
24	Influences of Recent Particle Formation on Southern Ocean Aerosol Variability and Low Cloud Properties. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033529.	3.3	32
25	Convective distribution of tropospheric ozone and tracers in the Central American ITCZ region: Evidence from observations during TC4. Journal of Geophysical Research, 2010, 115, .	3.3	31
26	Measurements of Saharan Dust in Convective Clouds over the Tropical Eastern Atlantic Ocean*. Journals of the Atmospheric Sciences, 2015, 72, 75-81.	1.7	30
27	Observations of Ice Nucleating Particles in the Free Troposphere From Western US Wildfires. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033752.	3.3	24
28	Particle production in the outflow of a midlatitude storm. Journal of Geophysical Research, 2002, 107, AAC 5-1-AAC 5-9.	3.3	23
29	Chemical consequences of the initial diffusional growth of cloud droplets: a clean marine case. Tellus, Series B: Chemical and Physical Meteorology, 2022, 41, 51.	1.6	21
30	Uniform particleâ€droplet partitioning of 18 organic and elemental components measured in and below DYCOMSâ€II stratocumulus clouds. Journal of Geophysical Research, 2008, 113, .	3.3	17
31	Saharan dust, convective lofting, aerosol enhancement zones, and potential impacts on ice nucleation in the tropical upper troposphere. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8833-8851.	3.3	16
32	Interannual to decadal climate variability of sea salt aerosols in the coupled climate model CESM1.0. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1502-1519.	3.3	13
33	Organic composition of three different size ranges of aerosol particles over the Southern Ocean. Aerosol Science and Technology, 2021, 55, 268-288.	3.1	13
34	Biomass Burning Smoke and Its Influence on Clouds Over the Western U. S.. Geophysical Research Letters, 2021, 48, e2021GL094224.	4.0	13
35	The Observed Influence of Tropical Convection on the Saharan Dust Layer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10896-10912.	3.3	8
36	Tropical storm redistribution of Saharan dust to the upper troposphere and ocean surface. Geophysical Research Letters, 2016, 43, 10,463.	4.0	6