Robert O David

List of Publications by Year
in descending order

22 papers	533 citations	840776 11 h-index	713466 21 g-index
51 all docs	51 docs citations	51 times ranked	677 citing authors

#	Article	IF	Citations
1	Pore condensation and freezing is responsible for ice formation below water saturation for porous particles. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8184-8189.	7.1	113
2	Ice nucleation abilities of soot particles determined with the Horizontal Ice Nucleation Chamber. Atmospheric Chemistry and Physics, 2018, 18, 13363-13392.	4.9	67
3	The Impact of Cloud Processing on the Ice Nucleation Abilities of Soot Particles at Cirrus Temperatures. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030922.	3.3	45
4	Uncertainty in counting ice nucleating particles with continuous flow diffusion chambers. Atmospheric Chemistry and Physics, 2017, 17, 10855-10864.	4.9	36
5	A laboratory investigation of the ice nucleation efficiency of three types of mineral and soil dust. Atmospheric Chemistry and Physics, 2018, 18, 16515-16536.	4.9	31
6	Photomineralization mechanism changes the ability of dissolved organic matter to activate cloud droplets and to nucleate ice crystals. Atmospheric Chemistry and Physics, 2019, 19, 12397-12412.	4.9	27
7	Impact of surface and near-surface processes on ice crystal concentrations measured at mountain-top research stations. Atmospheric Chemistry and Physics, 2018, 18, 8909-8927.	4.9	25
8	Protein aggregates nucleate ice: the example of apoferritin. Atmospheric Chemistry and Physics, 2020, 20, 3291-3315.	4.9	22
9	Microphysical investigation of the seeder and feeder region of an Alpine mixed-phase cloud. Atmospheric Chemistry and Physics, 2021, 21, 6681-6706.	4.9	22
10	The role of contact angle and pore width on pore condensation and freezing. Atmospheric Chemistry and Physics, 2020, 20, 9419-9440.	4.9	20
11	Development of the DRoplet Ice Nuclei Counter Zurich (DRINCZ): validation and application to field-collected snow samples. Atmospheric Measurement Techniques, 2019, 12, 6865-6888.	3.1	19
12	Isotopic Fractionation in Wintertime Orographic Clouds. Journal of Atmospheric and Oceanic Technology, 2016, 33, 2663-2678.	1.3	13
13	Development of the drop Freezing Ice Nuclei Counter (FINC), intercomparison of droplet freezing techniques, and use of soluble lignin as an atmospheric ice nucleation standard. Atmospheric Measurement Techniques, 2021, 14, 3131-3151.	3.1	13
14	Ice Nucleation Ability of Tree Pollen Altered by Atmospheric Processing. ACS Earth and Space Chemistry, 2020, 4, 2312-2319.	2.7	11
15	Influence of low-level blocking and turbulence on the microphysics of a mixed-phase cloud in an inner-Alpine valley. Atmospheric Chemistry and Physics, 2021, 21, 5151-5172.	4.9	11
16	Mixed-phase orographic cloud microphysics during StormVEx and IFRACS. Atmospheric Chemistry and Physics, 2019, 19, 5387-5401.	4.9	10
17	Spaceborne Evidence That Iceâ€Nucleating Particles Influence Highâ€Latitude Cloud Phase. Geophysical Research Letters, 2022, 49, .	4.0	7
18	Assessment of Artificial and Natural Transport Mechanisms of Ice Nucleating Particles in an Alpine Ski Resort in Obergurgl, Austria. Frontiers in Microbiology, 2019, 10, 2278.	3.5	6

#	Article	IF	Citations
19	Spatial and temporal variability in the ice-nucleating ability of alpine snowmelt and extension to frozen cloud fraction. Atmospheric Chemistry and Physics, 2020, 20, 163-180.	4.9	5
20	Global Radiative Impacts of Mineral Dust Perturbations Through Stratiform Clouds. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031807.	3.3	4
21	Snowfall Model Validation Using Surface Observations and an Optimal Estimation Snowfall Retrieval. Weather and Forecasting, 2021, 36, 1827-1842.	1.4	2
22	Post-flight analysis of detailed size distributions of warm cloud droplets, as determined in situ by cloud and aerosol spectrometers. Atmospheric Measurement Techniques, 2021, 14, 6777-6794.	3.1	0