

Thomas F Whale

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

3,456
citations

257450

24
h-index

361022

35
g-index

52
all docs

52
docs citations

52
times ranked

2904
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of feldspar for ice nucleation by mineral dust in mixed-phase clouds. <i>Nature</i> , 2013, 498, 355-358.	27.8	590
2	A marine biogenic source of atmospheric ice-nucleating particles. <i>Nature</i> , 2015, 525, 234-238.	27.8	475
3	Technical Note: A proposal for ice nucleation terminology. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10263-10270.	4.9	338
4	Stacking disorder in ice I. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 60-76.	2.8	215
5	A comprehensive laboratory study on the immersion freezing behavior of illite NX particles: a comparison of 17 ice nucleation measurement techniques. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2489-2518.	4.9	200
6	Ice nucleation by fertile soil dusts: relative importance of mineral and biogenic components. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1853-1867.	4.9	187
7	The relevance of nanoscale biological fragments for ice nucleation in clouds. <i>Scientific Reports</i> , 2015, 5, 8082.	3.3	164
8	Not all feldspars are equal: a survey of ice nucleating properties across the feldspar group of minerals. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10927-10940.	4.9	124
9	A technique for quantifying heterogeneous ice nucleation in microlitre supercooled water droplets. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2437-2447.	3.1	106
10	High-speed imaging of ice nucleation in water proves the existence of active sites. <i>Science Advances</i> , 2019, 5, eaav4316.	10.3	87
11	The Fifth International Workshop on Ice Nucleation phase 2 (FIN-02): laboratory intercomparison of ice nucleation measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6231-6257.	3.1	82
12	The enhancement and suppression of immersion mode heterogeneous ice-nucleation by solutes. <i>Chemical Science</i> , 2018, 9, 4142-4151.	7.4	66
13	Atmospheric Ice-Nucleating Particles in the Dusty Tropical Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2175-2193.	3.3	66
14	The role of phase separation and related topography in the exceptional ice-nucleating ability of alkali feldspars. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31186-31193.	2.8	63
15	Representing time-dependent freezing behaviour in immersion mode ice nucleation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8501-8520.	4.9	62
16	Ice Nucleation Properties of Oxidized Carbon Nanomaterials. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3012-3016.	4.6	59
17	Polymer Self-Assembly Induced Enhancement of Ice Recrystallization Inhibition. <i>Journal of the American Chemical Society</i> , 2021, 143, 7449-7461.	13.7	57
18	Contributions of biogenic material to the atmospheric ice-nucleating particle population in North Western Europe. <i>Scientific Reports</i> , 2018, 8, 13821.	3.3	56

#	ARTICLE	IF	CITATIONS
19	DFT-assisted interpretation of the Raman spectra of hydrogen-ordered ice XV. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 290-298.	2.5	51
20	The ice-nucleating ability of quartz immersed in water and its atmospheric importance compared to K-feldspar. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11343-11361.	4.9	50
21	A comprehensive characterization of ice nucleation by three different types of cellulose particles immersed in water. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4823-4849.	4.9	48
22	Unravelling the origins of ice nucleation on organic crystals. <i>Chemical Science</i> , 2018, 9, 8077-8088.	7.4	43
23	The study of atmospheric ice-nucleating particles via microfluidically generated droplets. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 52.	2.2	32
24	Cryopreservation of primary cultures of mammalian somatic cells in 96-well plates benefits from control of ice nucleation. <i>Cryobiology</i> , 2020, 93, 62-69.	0.7	28
25	An instrument for quantifying heterogeneous ice nucleation in multiwell plates using infrared emissions to detect freezing. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5629-5641.	3.1	22
26	The importance of crystalline phases in ice nucleation by volcanic ash. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5451-5465.	4.9	21
27	Nucleation of nitric acid hydrates in polar stratospheric clouds by meteoric material. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4519-4531.	4.9	18
28	Analysis of stacking disorder in ice I using pair distribution functions. <i>Journal of Applied Crystallography</i> , 2018, 51, 1211-1220.	4.5	17
29	Heterogeneous Ice Nucleation by Soufriere Hills Volcanic Ash Immersed in Water Droplets. <i>PLoS ONE</i> , 2017, 12, e0169720.	2.5	14
30	A Major Combustion Aerosol Event Had a Negligible Impact on the Atmospheric Ice-Nucleating Particle Population. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032938.	3.3	14
31	An evaluation of the heat test for the ice-nucleating ability of minerals and biological material. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2635-2665.	3.1	13
32	Understanding crystal nucleation mechanisms: where do we stand? General discussion. <i>Faraday Discussions</i> , 0, 235, 219-272.	3.2	13
33	The role of structural order in heterogeneous ice nucleation. <i>Chemical Science</i> , 2022, 13, 5014-5026.	7.4	10
34	Disordering effect of the ammonium cation accounts for anomalous enhancement of heterogeneous ice nucleation. <i>Journal of Chemical Physics</i> , 2022, 156, 144503.	3.0	8
35	Ice Nucleation in Mixed-Phase Clouds. , 2018, , 13-41.		4
36	Atmospheric ice nucleation by fertile soil dusts particles: Relative importance of mineral and biological components. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Cryopreservation of bovine granulosa in 96-well plates enhanced by ice nucleation control. Cryobiology, 2018, 85, 185.	0.7	0