

Gourihar Kulkarni

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

990
citations

471509

17
h-index

526287

27
g-index

32
all docs

32
docs citations

32
times ranked

1194
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ice nucleation and droplet formation by bare and coated soot particles. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	110
3	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
4	Influence of surface morphology on the immersion mode ice nucleation efficiency of hematite particles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2315-2324.	4.9	65
5	The SPectrometer for Ice Nuclei (SPIN): an instrument to investigate ice nucleation. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2781-2795.	3.1	56
6	Abundance of fluorescent biological aerosol particles at temperatures conducive to the formation of mixed-phase and cirrus clouds. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8205-8225.	4.9	50
7	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
8	Ice nucleation activity of diesel soot particles at cirrus relevant temperature conditions: Effects of hydration, secondary organics coating, soot morphology, and coagulation. <i>Geophysical Research Letters</i> , 2016, 43, 3580-3588.	4.0	47
9	Ice nucleation of bare and sulfuric acid-coated mineral dust particles and implication for cloud properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9993-10011.	3.3	45
10	Comparison of Experimental and Numerical Studies of the Performance Characteristics of a Pumped Counterflow Virtual Impactor. <i>Aerosol Science and Technology</i> , 2011, 45, 382-392.	3.1	38
11	Morphology of diesel soot residuals from supercooled water droplets and ice crystals: implications for optical properties. <i>Environmental Research Letters</i> , 2015, 10, 114010.	5.2	35
12	Fractal-like Tar Ball Aggregates from Wildfire Smoke. <i>Environmental Science and Technology Letters</i> , 2018, 5, 360-365.	8.7	29
13	Ice-Nucleating Particles That Impact Clouds and Climate: Observational and Modeling Research Needs. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	29
14	Southern Ocean latitudinal gradients of cloud condensation nuclei. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12757-12782.	4.9	20
15	Aerosol measurements at a high-elevation site: composition, size, and cloud condensation nuclei activity. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11839-11851.	4.9	19
16	A comprehensive parameterization of heterogeneous ice nucleation of dust surrogate: laboratory study with hematite particles and its application to atmospheric models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13145-13158.	4.9	18
17	Ice formation on nitric acid-coated dust particles: Laboratory and modeling studies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7682-7698.	3.3	18
18	Effects of crystallographic properties on the ice nucleation properties of volcanic ash particles. <i>Geophysical Research Letters</i> , 2015, 42, 3048-3055.	4.0	18

#	ARTICLE	IF	CITATIONS
19	Development and characterization of an ice-selecting pumped counterflow virtual impactor (IS-PCVI) to study ice crystal residuals. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3817-3836.	3.1	12
20	Optical properties and composition of viscous organic particles found in the Southern Great Plains. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11593-11606.	4.9	12
21	Performance Assessment of Portable Optical Particle Spectrometer (POPS). <i>Sensors</i> , 2020, 20, 6294.	3.8	11
22	Atmospheric ice nuclei concentration measurements over a high altitude-station in the Western Ghats, India. <i>Atmospheric Research</i> , 2020, 235, 104795.	4.1	8
23	Atmospheric ice nucleating particle measurements and parameterization representative for Indian region. <i>Atmospheric Research</i> , 2021, 253, 105487.	4.1	7
24	Immersion Freezing of Total Ambient Aerosols and Ice Residuals. <i>Atmosphere</i> , 2018, 9, 55.	2.3	5
25	A new method for operating a continuous-flow diffusion chamber to investigate immersion freezing: assessment and performance study. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6631-6643.	3.1	5
26	Intra-annual variations of regional total column ozone, aerosol optical depth, and water vapor from ground-based, satellite-based and model-based observations. <i>Atmospheric Research</i> , 2020, 237, 104860.	4.1	2
27	Ice Nucleation Properties of Soil Derived Mineral and Soil Organic Particles. <i>Microscopy and Microanalysis</i> , 2019, 25, 2434-2435.	0.4	1
28	Ice nucleation ability of loess from the northwestern United States. <i>PLoS ONE</i> , 2019, 14, e0220991.	2.5	0