Gourihar Kulkarni

List of Publications by Year
in descending order

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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	Iceâ€Nucleating Particles That Impact Clouds and Climate: Observational and Modeling Research Needs. Reviews of Geophysics, 2022, 60, .	23.0	29
2	Atmospheric ice nucleating particle measurements and parameterization representative for Indian region. Atmospheric Research, 2021, 253, 105487.	4.1	7
3	Southern Ocean latitudinal gradients of cloud condensation nuclei. Atmospheric Chemistry and Physics, 2021, 21, 12757-12782.	4.9	20
4	Atmospheric ice nuclei concentration measurements over a high altitude-station in the Western Ghats, India. Atmospheric Research, 2020, 235, 104795.	4.1	8
5	Performance Assessment of Portable Optical Particle Spectrometer (POPS). Sensors, 2020, 20, 6294.	3.8	11
6	Intra-annual variations of regional total column ozone, aerosol optical depth, and water vapor from ground-based, satellite-based and model-based observations. Atmospheric Research, 2020, 237, 104860.	4.1	2
7	Optical properties and composition of viscous organic particles found in the Southern Great Plains. Atmospheric Chemistry and Physics, 2020, 20, 11593-11606.	4.9	12
8	A new method for operating a continuous-flow diffusion chamber to investigate immersion freezing: assessment and performance study. Atmospheric Measurement Techniques, 2020, 13, 6631-6643.	3.1	5
9	Ice nucleation ability of loess from the northwestern United States. PLoS ONE, 2019, 14, e0220991.	2.5	0
10	Ice Nucleation Properties of Soil Derived Mineral and Soil Organic Particles. Microscopy and Microanalysis, 2019, 25, 2434-2435.	0.4	1
11	A comprehensive characterization of ice nucleation by three different types of cellulose particles immersed in water. Atmospheric Chemistry and Physics, 2019, 19, 4823-4849.	4.9	48
12	The Fifth International Workshop on Ice Nucleation phase 2 (FIN-02): laboratory intercomparison of ice nucleation measurements. Atmospheric Measurement Techniques, 2018, 11, 6231-6257.	3.1	82
13	Fractal-like Tar Ball Aggregates from Wildfire Smoke. Environmental Science and Technology Letters, 2018, 5, 360-365.	8.7	29
14	Immersion Freezing of Total Ambient Aerosols and Ice Residuals. Atmosphere, 2018, 9, 55.	2.3	5
15	The SPectrometer for Ice Nuclei (SPIN): an instrument to investigate ice nucleation. Atmospheric Measurement Techniques, 2016, 9, 2781-2795.	3.1	56
16	Development and characterization of an ice-selecting pumped counterflow virtual impactor (IS-PCVI) to study ice crystal residuals. Atmospheric Measurement Techniques, 2016, 9, 3817-3836.	3.1	12
17	Ice nucleation activity of diesel soot particles at cirrus relevant temperature conditions: Effects of hydration, secondary organics coating, soot morphology, and coagulation. Geophysical Research Letters, 2016, 43, 3580-3588.	4.0	47
18	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

#	Article	IF	Citations
19	Ice formation on nitric acidâ€coated dust particles: Laboratory and modeling studies. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7682-7698.	3.3	18
20	Effects of crystallographic properties on the ice nucleation properties of volcanic ash particles. Geophysical Research Letters, 2015, 42, 3048-3055.	4.0	18
21	A comprehensive laboratory study on the immersion freezing behavior of illite NX particles: a comparison of 17 ice nucleation measurement techniques. Atmospheric Chemistry and Physics, 2015, 15, 2489-2518.	4.9	200
22	Morphology of diesel soot residuals from supercooled water droplets and ice crystals: implications for optical properties. Environmental Research Letters, 2015, 10, 114010.	5.2	35
23	Ice nucleation of bare and sulfuric acidâ€coated mineral dust particles and implication for cloud properties. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9993-10011.	3.3	45
24	A comprehensive parameterization of heterogeneous ice nucleation of dust surrogate: laboratory study with hematite particles and its application to atmospheric models. Atmospheric Chemistry and Physics, 2014, 14, 13145-13158.	4.9	18
25	Influence of surface morphology on the immersion mode ice nucleation efficiency of hematite particles. Atmospheric Chemistry and Physics, 2014, 14, 2315-2324.	4.9	65
26	Aerosol measurements at a high-elevation site: composition, size, and cloud condensation nuclei activity. Atmospheric Chemistry and Physics, 2013, 13, 11839-11851.	4.9	19
27	Ice nucleation and droplet formation by bare and coated soot particles. Journal of Geophysical Research, 2011, 116, .	3.3	110
28	Comparison of Experimental and Numerical Studies of the Performance Characteristics of a Pumped Counterflow Virtual Impactor. Aerosol Science and Technology, 2011, 45, 382-392.	3.1	38