Swarup China

List of Publications by Year
in descending order

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69 papers	2,456 citations	186265 28 h-index	214800 47 g-index
97 all docs	97 docs citations	97 times ranked	3017 citing authors

#	Article	IF	Citations
1	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). Bulletin of the American Meteorological Society, 2022, 103, E619-E641.	3.3	33
2	Solid organic-coated ammonium sulfate particles at high relative humidity in the summertime Arctic atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2104496119.	7.1	11
3	Micro-spectroscopic and freezing characterization of ice-nucleating particles collected in the marine boundary layer in the eastern North Atlantic. Atmospheric Chemistry and Physics, 2022, 22, 5377-5398.	4.9	10
4	Iceâ€Nucleating Particles That Impact Clouds and Climate: Observational and Modeling Research Needs. Reviews of Geophysics, 2022, 60, .	23.0	29
5	Molecular Characterization of Organosulfate-Dominated Aerosols over Agricultural Fields from the Southern Great Plains by High-Resolution Mass Spectrometry. ACS Earth and Space Chemistry, 2022, 6, 1733-1741.	2.7	5
6	Chemical composition and morphological analysis of atmospheric particles from an intensive bonfire burning festival. Environmental Science Atmospheres, 2022, 2, 616-633.	2.4	1
7	Particle phase-state variability in the North Atlantic free troposphere during summertime is determined by atmospheric transport patterns and sources. Atmospheric Chemistry and Physics, 2022, 22, 9033-9057.	4.9	7
8	Photochemical reactions on aerosols at West Antarctica: A molecular case-study of nitrate formation among sea salt aerosols. Science of the Total Environment, 2021, 758, 143586.	8.0	8
9	Direct observation and assessment of phase states of ambient and lab-generated sub-micron particles upon humidification. RSC Advances, 2021, 11, 15264-15272.	3.6	13
10	Atmospheric Transport of North African Dustâ€Bearing Supermicron Freshwater Diatoms to South America: Implications for Iron Transport to the Equatorial North Atlantic Ocean. Geophysical Research Letters, 2021, 48, e2020GL090476.	4.0	12
11	Deciphering the Source of Primary Biological Aerosol Particles: A Pollen Case Study. ACS Earth and Space Chemistry, 2021, 5, 969-979.	2.7	6
12	Acyclic Terpenes Reduce Secondary Organic Aerosol Formation from Emissions of a Riparian Shrub. ACS Earth and Space Chemistry, 2021, 5, 1242-1253.	2.7	5
13	Deciphering the Incipient Phases of Iceâ€“Mineral Interactions as a Precursor of Physical Weathering. ACS Earth and Space Chemistry, 2021, 5, 1233-1241.	2.7	5
14	Extreme Molecular Complexity Resulting in a Continuum of Carbonaceous Species in Biomass Burning Tar Balls from Wildfire Smoke. ACS Earth and Space Chemistry, 2021, 5, 2729-2739.	2.7	14
15	Aerosol Composition, Mixing State, and Phase State of Free Tropospheric Particles and Their Role in Ice Cloud Formation. ACS Earth and Space Chemistry, 2021, 5, 3499-3510.	2.7	14
16	Impact of dry intrusion events on the composition and mixing state of particles during the winter Aerosol and Cloud Experiment in the Eastern North Atlantic (ACE-ENA). Atmospheric Chemistry and Physics, 2021, 21, 18123-18146.	4.9	10
17	Chemical Interactions in the Plantâ€“Atmosphereâ€“Soil System. ACS Earth and Space Chemistry, 2021, 5, 3279-3280.	2.7	1
18	Performance Assessment of Portable Optical Particle Spectrometer (POPS). Sensors, 2020, 20, 6294.	3.8	11

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19	Chemical Imaging of Fine Mode Atmospheric Particles Collected from a Research Aircraft over Agricultural Fields. ACS Earth and Space Chemistry, 2020, 4, 2171-2184.	2.7	16
20	Microanalysis of Primary Biological Particles from Model Grass over Its Life Cycle. ACS Earth and Space Chemistry, 2020, 4, 1895-1905.	2.7	5
21	Carbonaceous deposits on aluminide coatings in tritium-producing assemblies. Nuclear Materials and Energy, 2020, 25, 100797.	1.3	2
22	Observation of Road Salt Aerosol Driving Inland Wintertime Atmospheric Chlorine Chemistry. ACS Central Science, 2020, 6, 684-694.	11.3	41
23	Emerging investigator series: influence of marine emissions and atmospheric processing on individual particle composition of summertime Arctic aerosol over the Bering Strait and Chukchi Sea. Environmental Sciences: Processes and Impacts, 2020, 22, 1201-1213.	3.5	8
24	Particle-Phase Diffusion Modulates Partitioning of Semivolatile Organic Compounds to Aged Secondary Organic Aerosol. Environmental Science & Technology, 2020, 54, 2595-2605.	10.0	37
25	Radiative absorption enhancements by black carbon controlled by particle-to-particle heterogeneity in composition. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5196-5203.	7.1	84
26	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
27	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
28	Mineral Surface Transformations by Ice Nucleation. Microscopy and Microanalysis, 2019, 25, 2464-2465.	0.4	0
29	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. Scientific Reports, 2019, 9, 11824.	3.3	47
30	Ice Nucleation Properties of Soil Derived Mineral and Soil Organic Particles. Microscopy and Microanalysis, 2019, 25, 2434-2435.	0.4	1
31	Machine Learning Approaches for Analysis of Multiscale Imaging Data for Atmospheric and Soil Particles. Microscopy and Microanalysis, 2019, 25, 194-195.	0.4	0
32	Ice nucleating particles in the marine boundary layer in the Canadian Arctic during summer 2014. Atmospheric Chemistry and Physics, 2019, 19, 1027-1039.	4.9	48
33	Optical properties and radiative forcing of fractal-like tar ball aggregates from biomass burning. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 65-74.	2.3	6
34	Aerosol Emissions from Great Lakes Harmful Algal Blooms. Environmental Science & Technology, 2018, 52, 397-405.	10.0	66
35	Marine and terrestrial influences on ice nucleating particles during continuous springtime measurements in an Arctic oilfield location. Atmospheric Chemistry and Physics, 2018, 18, 18023-18042.	4.9	70
36	Fungal spores as a source of sodium salt particles in the Amazon basin. Nature Communications, 2018, 9, 4793.	12.8	31

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37	Physical Properties of Aerosol Internally Mixed With Soot Particles in a Biogenically Dominated Environment in California. Geophysical Research Letters, 2018, 45, 11,473.	4.0	15
38	Preface: Morphology and Internal Mixing of Atmospheric Particles. Atmosphere, 2018, 9, 249.	2.3	3
39	Fractal-like Tar Ball Aggregates from Wildfire Smoke. Environmental Science and Technology Letters, 2018, 5, 360-365.	8.7	29
40	Self-organizing layers from complex molecular anions. Nature Communications, 2018, 9, 1889.	12.8	43
41	Unexpected Contributions of Sea Spray and Lake Spray Aerosol to Inland Particulate Matter. Environmental Science and Technology Letters, 2018, 5, 405-412.	8.7	36
42	Heating-Induced Transformations of Atmospheric Particles: Environmental Transmission Electron Microscopy Study. Analytical Chemistry, 2018, 90, 9761-9768.	6.5	7
43	Environmental Transmission Electron Microscopy of Individual Atmospheric Particles from the North Atlantic. Microscopy and Microanalysis, 2018, 24, 396-397.	0.4	5
44	Ice cloud formation potential by free tropospheric particles from longâ€range transport over the Northern Atlantic Ocean. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3065-3079.	3.3	34
45	Optical Properties of Airborne Soil Organic Particles. ACS Earth and Space Chemistry, 2017, 1, 511-521.	2.7	14
46	Anthropogenic influences on the physical state of submicron particulate matter over a tropical forest. Atmospheric Chemistry and Physics, 2017, 17, 1759-1773.	4.9	52
47	Contributions of transported Prudhoe Bay oil field emissions to the aerosol population in UtqiaÄ¡vik, Alaska. Atmospheric Chemistry and Physics, 2017, 17, 10879-10892.	4.9	37
48	Evolution of Multispectral Aerosol Absorption Properties in a Biogenically-Influenced Urban Environment during the CARES Campaign. Atmosphere, 2017, 8, 217.	2.3	8
49	Effect of Thermodenuding on the Structure of Nascent Flame Soot Aggregates. Atmosphere, 2017, 8, 166.	2.3	14
50	Elemental Mixing State of Aerosol Particles Collected in Central Amazonia during GoAmazon2014/15. Atmosphere, 2017, 8, 173.	2.3	30
51	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
52	Airborne soil organic particles generated byÂprecipitation. Nature Geoscience, 2016, 9, 433-437.	12.9	71
53	Direct observation of ice nucleation events on individual atmospheric particles. Physical Chemistry Chemical Physics, 2016, 18, 29721-29731.	2.8	55
54	Rupturing of Biological Spores As a Source of Secondary Particles in Amazonia. Environmental Science & Technology, 2016, 50, 12179-12186.	10.0	46

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55	Progress in the Analysis of Complex Atmospheric Particles. Annual Review of Analytical Chemistry, 2016, 9, 117-143.	5.4	51
56	Perturbations of the optical properties of mineral dust particles by mixing with black carbon: a numerical simulation study. Atmospheric Chemistry and Physics, 2015, 15, 6913-6928.	4.9	31
57	Morphology and mixing state of aged soot particles at a remote marine free troposphere site: Implications for optical properties. Geophysical Research Letters, 2015, 42, 1243-1250.	4.0	153
58	Molecular characterization of free tropospheric aerosol collected at the Pico Mountain Observatory: a case study with a long-range transported biomass burning plume. Atmospheric Chemistry and Physics, 2015, 15, 5047-5068.	4.9	67
59	Characterization of Dust Particlesâ€™ 3D Shape and Roughness with Nanometer Resolution. Aerosol Science and Technology, 2015, 49, 229-238.	3.1	14
60	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
61	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. Nature Communications, 2015, 6, 8435.	12.8	266
62	A Technique to Measure Ice Nuclei in the Contact Mode. Journal of Atmospheric and Oceanic Technology, 2014, 31, 913-922.	1.3	14
63	Effect of Traffic and Driving Characteristics on Morphology of Atmospheric Soot Particles at Freeway On-Ramps. Environmental Science & Technology, 2014, 48, 3128-3135.	10.0	65
64	Soot superaggregates from flaming wildfires and their direct radiative forcing. Scientific Reports, 2014, 4, 5508.	3.3	90
65	Morphology and mixing state of individual freshly emitted wildfire carbonaceous particles. Nature Communications, 2013, 4, 2122.	12.8	278
66	Ice nucleation in the contact mode: Temperature and size dependence for selected dusts. , 2013, , .		1
67	Comparison of Laser-Based and Sand Patch Measurements of Pavement Surface Macrotexture. Journal of Transportation Engineering, 2012, 138, 176-181.	0.9	28
68	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). Atmospheric Chemistry and Physics, 2012, 12, 7647-7687.	4.9	94
69	Influence of pavement macrotexture on PM10 emissions from paved roads: A controlled study. Atmospheric Environment, 2012, 63, 313-326.	4.1	24