# Swarup China

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1278547/publications.pdf

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Morphology and mixing state of individual freshly emitted wildfire carbonaceous particles. Nature Communications, 2013, 4, 2122. | 12.8 | 278 |
| 2 | Enhanced light absorption by mixed source black and brown carbon particles in UK winter. Nature Communications, 2015, 6, 8435. | 12.8 | 266 |
| 3 | 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 |
| 4 | Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). Atmospheric Chemistry and Physics, 2012, 12, 7647-7687. | 4.9 | 94 |
| 5 | Soot superaggregates from flaming wildfires and their direct radiative forcing. Scientific Reports, 2014, 4, 5508. | 3.3 | 90 |
| 6 | 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 |
| 7 | Airborne soil organic particles generated byÂprecipitation. Nature Geoscience, 2016, 9, 433-437. | 12.9 | 71 |
| 8 | 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 |
| 9 | 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 |
| 10 | Aerosol Emissions from Great Lakes Harmful Algal Blooms. Environmental Science & Technology, 2018, 52, 397-405. | 10.0 | 66 |
| 11 | 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 |
| 12 | Direct observation of ice nucleation events on individual atmospheric particles. Physical Chemistry Chemical Physics, 2016, 18, 29721-29731. | 2.8 | 55 |
| 13 | 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 |
| 14 | Progress in the Analysis of Complex Atmospheric Particles. Annual Review of Analytical Chemistry, 2016, 9, 117-143. | 5.4 | 51 |
| 15 | 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 |
| 16 | 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 |
| 17 | Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. Scientific Reports, 2019, 9, 11824. | 3.3 | 47 |
| 18 | Rupturing of Biological Spores As a Source of Secondary Particles in Amazonia. Environmental Science & Technology, 2016, 50, 12179-12186. | 10.0 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Self-organizing layers from complex molecular anions. Nature Communications, 2018, 9, 1889. | 12.8 | 43 |
| 20 | Observation of Road Salt Aerosol Driving Inland Wintertime Atmospheric Chlorine Chemistry. ACS Central Science, 2020, 6, 684-694. | 11.3 | 41 |
| 21 | 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 |
| 22 | Particle-Phase Diffusion Modulates Partitioning of Semivolatile Organic Compounds to Aged Secondary Organic Aerosol. Environmental Science & Technology, 2020, 54, 2595-2605. | 10.0 | 37 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). Bulletin of the American Meteorological Society, 2022, 103, E619-E641. | 3.3 | 33 |
| 27 | 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 |
| 28 | Fungal spores as a source of sodium salt particles in the Amazon basin. Nature Communications, 2018, 9, 4793. | 12.8 | 31 |
| 29 | Elemental Mixing State of Aerosol Particles Collected in Central Amazonia during GoAmazon2014/15. Atmosphere, 2017, 8, 173. | 2.3 | 30 |
| 30 | Fractal-like Tar Ball Aggregates from Wildfire Smoke. Environmental Science and Technology Letters, 2018, 5, 360-365. | 8.7 | 29 |
| 31 | Iceâ€Nucleating Particles That Impact Clouds and Climate: Observational and Modeling Research Needs. Reviews of Geophysics, 2022, 60, . | 23.0 | 29 |
| 32 | Comparison of Laser-Based and Sand Patch Measurements of Pavement Surface Macrotexture. Journal of Transportation Engineering, 2012, 138, 176-181. | 0.9 | 28 |
| 33 | Influence of pavement macrotexture on PM10 emissions from paved roads: A controlled study. Atmospheric Environment, 2012, 63, 313-326. | 4.1 | 24 |
| 34 | 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 |
| 35 | 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 |
| 36 | A Technique to Measure Ice Nuclei in the Contact Mode. Journal of Atmospheric and Oceanic Technology, 2014, 31, 913-922. | 1.3 | 14 |

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|---|---|---|---|
| 37 | Characterization of Dust Particlesâ€™ 3D Shape and Roughness with Nanometer Resolution. Aerosol Science and Technology, 2015, 49, 229-238. | 3.1 | 14 |
| 38 | Optical Properties of Airborne Soil Organic Particles. ACS Earth and Space Chemistry, 2017, 1, 511-521. | 2.7 | 14 |
| 39 | Effect of Thermodenuding on the Structure of Nascent Flame Soot Aggregates. Atmosphere, 2017, 8, 166. | 2.3 | 14 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | Performance Assessment of Portable Optical Particle Spectrometer (POPS). Sensors, 2020, 20, 6294. | 3.8 | 11 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Evolution of Multispectral Aerosol Absorption Properties in a Biogenically-Influenced Urban Environment during the CARES Campaign. Atmosphere, 2017, 8, 217. | 2.3 | 8 |
| 50 | 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 |
| 51 | 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 |
| 52 | Heating-Induced Transformations of Atmospheric Particles: Environmental Transmission Electron Microscopy Study. Analytical Chemistry, 2018, 90, 9761-9768. | 6.5 | 7 |
| 53 | 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 |
| 54 | 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 |

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|---|---|---|---|
| 55 | Deciphering the Source of Primary Biological Aerosol Particles: A Pollen Case Study. ACS Earth and Space Chemistry, 2021, 5, 969-979. | 2.7 | 6 |
| 56 | Environmental Transmission Electron Microscopy of Individual Atmospheric Particles from the North Atlantic. Microscopy and Microanalysis, 2018, 24, 396-397. | 0.4 | 5 |
| 57 | Microanalysis of Primary Biological Particles from Model Grass over Its Life Cycle. ACS Earth and Space Chemistry, 2020, 4, 1895-1905. | 2.7 | 5 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | Preface: Morphology and Internal Mixing of Atmospheric Particles. Atmosphere, 2018, 9, 249. | 2.3 | 3 |
| 63 | Carbonaceous deposits on aluminide coatings in tritium-producing assemblies. Nuclear Materials and Energy, 2020, 25, 100797. | 1.3 | 2 |
| 64 | Ice nucleation in the contact mode: Temperature and size dependence for selected dusts. , 2013, , . | | 1 |
| 65 | Ice Nucleation Properties of Soil Derived Mineral and Soil Organic Particles. Microscopy and Microanalysis, 2019, 25, 2434-2435. | 0.4 | 1 |
| 66 | Chemical Interactions in the Plantâ€“Atmosphereâ€“Soil System. ACS Earth and Space Chemistry, 2021, 5, 3279-3280. | 2.7 | 1 |
| 67 | Chemical composition and morphological analysis of atmospheric particles from an intensive bonfire burning festival. Environmental Science Atmospheres, 2022, 2, 616-633. | 2.4 | 1 |
| 68 | Mineral Surface Transformations by Ice Nucleation. Microscopy and Microanalysis, 2019, 25, 2464-2465. | 0.4 | 0 |
| 69 | Machine Learning Approaches for Analysis of Multiscale Imaging Data for Atmospheric and Soil Particles. Microscopy and Microanalysis, 2019, 25, 194-195. | 0.4 | 0 |