

# Ulrich Pöschl

## List of Publications by Year in descending order

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Version: 2024-02-01

350  
papers

43,516  
citations

1994

101  
h-index

3182

186  
g-index

613  
all docs

613  
docs citations

613  
times ranked

28333  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Primary biological aerosol particles in the atmosphere: a review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 15598.   | 1.6  | 988       |
| 2  | Water-driven microbial nitrogen transformations in biological soil crusts causing atmospheric nitrous acid and nitric oxide emissions. <i>ISME Journal</i> , 2022, 16, 1012-1024.   | 9.8  | 22        |
| 3  | Tight Coupling of Surface and In-Plant Biochemistry and Convection Governs Key Fine Particulate Components over the Amazon Rainforest. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 380-390.   | 2.7  | 11        |
| 4  | Environmentally persistent free radicals in indoor particulate matter, dust, and on surfaces. <i>Environmental Science Atmospheres</i> , 2022, 2, 128-136.  | 2.4  | 3         |
| 5  | Bioaerosols and atmospheric ice nuclei in a Mediterranean dryland: community changes related to rainfall. <i>Biogeosciences</i> , 2022, 19, 71-91.  | 3.3  | 8         |
| 6  | Key Role of Equilibrium HONO Concentration over Soil in Quantifying Soil-Atmosphere HONO Fluxes. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2204-2212.   | 10.0 | 8         |
| 7  | Tropical and Boreal Forest - Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 74, 24.  | 1.6  | 27        |
| 8  | Seasonality and reduced nitric oxide titration dominated ozone increase during COVID-19 lockdown in eastern China. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .  | 6.8  | 30        |
| 9  | Occurrence and growth of sub-50-nm aerosol particles in the Amazonian boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3469-3492.   | 4.9  | 16        |
| 10 | Determination of the protein content of complex samples by aromatic amino acid analysis, liquid chromatography-UV absorbance, and colorimetry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4457-4470.  | 3.7  | 15        |
| 11 | Overview: On the transport and transformation of pollutants in the outflow of major population centres - observational data from the EMERGE European intensive operational period in summer 2017. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5877-5924. | 4.9  | 16        |
| 12 | Global cycling and climate effects of aeolian dust controlled by biological soil crusts. <i>Nature Geoscience</i> , 2022, 15, 458-463.  | 12.9 | 36        |
| 13 | Satellite-Based Detection of Secondary Droplet Activation in Convective Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .  | 3.3  | 2         |
| 14 | Emerging investigator series: deposited particles and human lung lining fluid are dynamic, chemically-complex reservoirs leading to thirdhand smoke emissions and exposure. <i>Environmental Science Atmospheres</i> , 2022, 2, 943-963.                          | 2.4  | 1         |
| 15 | Black carbon aerosol reductions during COVID-19 confinement quantified by aircraft measurements over Europe. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8683-8699.  | 4.9  | 11        |
| 16 | Highly oxygenated organic molecules with high unsaturation formed upon photochemical aging of soot. <i>CheM</i> , 2022, 8, 2688-2699.   | 11.7 | 10        |
| 17 | Polycyclic aromatic hydrocarbons (PAHs) and their alkylated, nitrated and oxygenated derivatives in the atmosphere over the Mediterranean and Middle East seas. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8739-8766.                                   | 4.9  | 16        |
| 18 | Interfacial Water Ordering Is Insufficient to Explain Ice-Nucleating Protein Activity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 218-223.  | 4.6  | 15        |

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|----|---|------|-----------|
| 19 | Mass accommodation and gas–particle partitioning in secondary organic aerosols: dependence on diffusivity, volatility, particle-phase reactions, and penetration depth. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1565-1580.   | 4.9  | 25        |
| 20 | Specific Ion–Protein Interactions Influence Bacterial Ice Nucleation. <i>Chemistry - A European Journal</i> , 2021, 27, 7402-7407.  | 3.3  | 20        |
| 21 | Non-equilibrium interplay between gas–particle partitioning and multiphase chemical reactions of semi-volatile compounds: mechanistic insights and practical implications for atmospheric modeling of polycyclic aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6175-6198. | 4.9  | 10        |
| 22 | Measurements from the RV <i>Itasca</i> ; Ronald H. Brown and related platforms as part of the Atlantic Tradewind Ocean-Atmosphere Mesoscale Interaction Campaign (ATOMIC). <i>Earth System Science Data</i> , 2021, 13, 1759-1790.  | 9.9  | 28        |
| 23 | Water uptake of subpollen aerosol particles: hygroscopic growth, cloud condensation nuclei activation, and liquid–liquid phase separation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6999-7022.  | 4.9  | 20        |
| 24 | Face masks effectively limit the probability of SARS-CoV-2 transmission. <i>Science</i> , 2021, 372, 1439-1443.   | 12.6 | 240       |
| 25 | Oligomerization and Nitration of the Grass Pollen Allergen Phl p 5 by Ozone, Nitrogen Dioxide, and Peroxynitrite: Reaction Products, Kinetics, and Health Effects. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7616.   | 4.1  | 14        |
| 26 | Aqueous-phase reactive species formed by fine particulate matter from remote forests and polluted urban air. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10439-10455.  | 4.9  | 6         |
| 27 | EUREC4A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.  | 9.9  | 88        |
| 28 | Gas-Phase Reaction Kinetics of the Ortho and Ipso Adducts 1,2,4,5-Tetramethylbenzene–OH with O <sub>2</sub> . <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2243-2251.  | 2.7  | 2         |
| 29 | Aitken mode particles as CCN in aerosol- and updraft-sensitive regimes of cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11723-11740.  | 4.9  | 15        |
| 30 | Bioaerosols in the Amazon rain forest: temporal variations and vertical profiles of Eukarya, Bacteria, and Archaea. <i>Biogeosciences</i> , 2021, 18, 4873-4887.  | 3.3  | 12        |
| 31 | Linear relationship between effective radius and precipitation water content near the top of convective clouds: measurement results from ACRIDICON–CHUVA campaign. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14079-14088.  | 4.9  | 4         |
| 32 | Observed and simulated variability of droplet spectral dispersion in convective clouds over the Amazon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035076.   | 3.3  | 4         |
| 33 | Multiphase chemistry experiment in Fogs and Aerosols in the North China Plain (McFAN): integrated analysis and intensive winter campaign 2018. <i>Faraday Discussions</i> , 2021, 226, 207-222.   | 3.2  | 23        |
| 34 | Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , 2021, 14, 77-84.  | 12.9 | 94        |
| 35 | Chemical Characterization and Source Apportionment of Organic Aerosols in the Coastal City of Chennai, India: Impact of Marine Air Masses on Aerosol Chemical Composition and Potential for Secondary Organic Aerosol Formation. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3197-3209.             | 2.7  | 12        |
| 36 | High-Resolution Fluorescence Spectra of Airborne Biogenic Secondary Organic Aerosols: Comparisons to Primary Biological Aerosol Particles and Implications for Single-Particle Measurements. <i>Environmental Science &amp; Technology</i> , 2021, 55, 16747-16756.                                     | 10.0 | 7         |

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|----|--|------|-----------|
| 37 | Hydroxyl Radical Production by Air Pollutants in Epithelial Lining Fluid Governed by Interconversion and Scavenging of Reactive Oxygen Species. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14069-14079.   | 10.0 | 39        |
| 38 | Membranes Are Decisive for Maximum Freezing Efficiency of Bacterial Ice Nucleators. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10783-10787.  | 4.6  | 10        |
| 39 | Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. <i>Nature Communications</i> , 2021, 12, 6416.   | 12.8 | 53        |
| 40 | Calibration and evaluation of a broad supersaturation scanning (BS2) cloud condensation nuclei counter for rapid measurement of particle hygroscopicity and cloud condensation nuclei (CCN) activity. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6991-7005. | 3.1  | 1         |
| 41 | Ozonolysis of Oleic Acid Aerosol Revisited: Multiphase Chemical Kinetics and Reaction Mechanisms. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3313-3323.   | 2.7  | 25        |
| 42 | Planetary Boundary Layer Height Modulates Aerosol-Water Vapor Interactions During Winter in the Megacity of Delhi. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035681.   | 3.3  | 4         |
| 43 | How weather events modify aerosol particle size distributions in the Amazon boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18065-18086.  | 4.9  | 7         |
| 44 | Formulation and Characterization of an Effervescent Hydrogen-Generating Tablet. <i>Pharmaceuticals</i> , 2021, 14, 1327.   | 3.8  | 5         |
| 45 | Cloud droplet formation at the base of tropical convective clouds: closure between modeling and measurement results of ACRIDICON-CHUVA. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17513-17528.  | 4.9  | 3         |
| 46 | Natural gas shortages during the "coal-to-gas" transition in China have caused a large redistribution of air pollution in winter 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31018-31025.                | 7.1  | 56        |
| 47 | Model Calculations of Aerosol Transmission and Infection Risk of COVID-19 in Indoor Environments. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8114.   | 2.6  | 158       |
| 48 | Chemical modification of pro-inflammatory proteins by peroxyxynitrite increases activation of TLR4 and NF- $\kappa$ B: Implications for the health effects of air pollution and oxidative stress. <i>Redox Biology</i> , 2020, 37, 101581.                             | 9.0  | 30        |
| 49 | Modeling the Formation, Degradation, and Spatiotemporal Distribution of 2-Nitrofluoranthene and 2-Nitropyrene in the Global Atmosphere. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14224-14234.   | 10.0 | 17        |
| 50 | New Multiphase Chemical Processes Influencing Atmospheric Aerosols, Air Quality, and Climate in the Anthropocene. <i>Accounts of Chemical Research</i> , 2020, 53, 2034-2043.  | 15.6 | 90        |
| 51 | Multiphase buffer theory explains contrasts in atmospheric aerosol acidity. <i>Science</i> , 2020, 369, 1374-1377.   | 12.6 | 115       |
| 52 | Inhibition of Bacterial Ice Nucleators Is Not an Intrinsic Property of Antifreeze Proteins. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4889-4895.   | 2.6  | 17        |
| 53 | Aerosol measurement methods to quantify spore emissions from fungi and cryptogamic covers in the Amazon. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 153-164.  | 3.1  | 14        |
| 54 | Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 661-684.  | 3.1  | 12        |

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|----|---|------|-----------|
| 55 | The challenge of simulating the sensitivity of the Amazonian cloud microstructure to cloud condensation nuclei number concentrations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1591-1605.                                       | 4.9  | 4         |
| 56 | Electrostatic Interactions Control the Functionality of Bacterial Ice Nucleators. <i>Journal of the American Chemical Society</i> , 2020, 142, 6842-6846.   | 13.7 | 33        |
| 57 | Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4757-4785.                               | 4.9  | 40        |
| 58 | Inappropriate evaluation of methodology and biases by P. Morfeld and T.C. Erren. <i>Cardiovascular Research</i> , 2020, 116, e102-e102.   | 3.8  | 3         |
| 59 | Loss of life expectancy from air pollution compared to other risk factors: a worldwide perspective. <i>Cardiovascular Research</i> , 2020, 116, 1910-1917.  | 3.8  | 427       |
| 60 | Air Pollution, Oxidative Stress, and Public Health in the Anthropocene. , 2020, , 79-92.  |      | 3         |
| 61 | Aerosol pH and chemical regimes of sulfate formation in aerosol water during winter haze in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11729-11746.  | 4.9  | 47        |
| 62 | Impact of biomass burning aerosols on radiation, clouds, and precipitation over the Amazon: relative importance of aerosol–cloud and aerosol–radiation interactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13283-13301.      | 4.9  | 59        |
| 63 | MIMiX: a Multipurpose In situ Microreactor system for X-ray microspectroscopy to mimic atmospheric aerosol processing. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3717-3729.   | 3.1  | 5         |
| 64 | Nano-hygroscopicity tandem differential mobility analyzer (nano-HTDMA) for investigating hygroscopic properties of sub-10 nm aerosol nanoparticles. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5551-5567.                        | 3.1  | 11        |
| 65 | Multifactor colorimetric analysis on pH-indicator papers: an optimized approach for direct determination of ambient aerosol pH. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6053-6065.  | 3.1  | 16        |
| 66 | Land cover and its transformation in the backward trajectory footprint region of the Amazon Tall Tower Observatory. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8425-8470.   | 4.9  | 41        |
| 67 | Relative importance of gas uptake on aerosol and ground surfaces characterized by equivalent uptake coefficients. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10981-11011.   | 4.9  | 25        |
| 68 | Second inflection point of water surface tension in the deeply supercooled regime revealed by entropy anomaly and surface structure using molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3360-3369. | 2.8  | 19        |
| 69 | Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12506-12518.  | 10.0 | 45        |
| 70 | Size-Resolved Single-Particle Fluorescence Spectrometer for Real-Time Analysis of Bioaerosols: Laboratory Evaluation and Atmospheric Measurements. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13257-13264.                   | 10.0 | 14        |
| 71 | Global NO and HONO emissions of biological soil crusts estimated by a process-based non-vascular vegetation model. <i>Biogeosciences</i> , 2019, 16, 2003-2031.   | 3.3  | 14        |
| 72 | Nanoscale distribution of TLR4 on primary human macrophages stimulated with LPS and ATI. <i>Nanoscale</i> , 2019, 11, 9769-9779.  | 5.6  | 16        |

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|----|---|------|-----------|
| 73 | Soil HONO emissions at high moisture content are driven by microbial nitrate reduction to nitrite: tackling the HONO puzzle. <i>ISME Journal</i> , 2019, 13, 1688-1699.   | 9.8  | 57        |
| 74 | Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions. <i>European Heart Journal</i> , 2019, 40, 1590-1596.  | 2.2  | 570       |
| 75 | Antioxidant activity of cerium dioxide nanoparticles and nanorods in scavenging hydroxyl radicals. <i>RSC Advances</i> , 2019, 9, 11077-11081.  | 3.6  | 48        |
| 76 | Physicochemical uptake and release of volatile organic compounds by soil in coated-wall flow tube experiments with ambient air. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2209-2232.   | 4.9  | 12        |
| 77 | Spectral Intensity Bioaerosol Sensor (SIBS): an instrument for spectrally resolved fluorescence detection of single particles in real time. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1337-1363.  | 3.1  | 33        |
| 78 | Macromolecular fungal ice nuclei in <i>Fusarium</i> : effects of physical and chemical processing. <i>Biogeosciences</i> , 2019, 16, 4647-4659.   | 3.3  | 42        |
| 79 | Dryland photoautotrophic soil surface communities endangered by global change. <i>Nature Geoscience</i> , 2018, 11, 185-189.  | 12.9 | 302       |
| 80 | Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2853-2881.                           | 4.9  | 108       |
| 81 | Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 921-961.   | 4.9  | 105       |
| 82 | Substantial convection and precipitation enhancements by ultrafine aerosol particles. <i>Science</i> , 2018, 359, 411-418.  | 12.6 | 290       |
| 83 | Technical note: Influence of surface roughness and local turbulence on coated-wall flow tube experiments for gas uptake and kinetic studies. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2669-2686.  | 4.9  | 9         |
| 84 | Comparing airborne and satellite retrievals of cloud optical thickness and particle effective radius using a spectral radiance ratio technique: two case studies for cirrus and deep convective clouds. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4439-4462. | 4.9  | 11        |
| 85 | Emission of nitrous acid from soil and biological soil crusts represents an important source of HONO in the remote atmosphere in Cyprus. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 799-813.  | 4.9  | 52        |
| 86 | Temperature effect on phase state and reactivity controls atmospheric multiphase chemistry and transport of PAHs. <i>Science Advances</i> , 2018, 4, eaap7314.  | 10.3 | 100       |
| 87 | Twin-plate Ice Nucleation Assay (TINA) with infrared detection for high-throughput droplet freezing experiments with biological ice nuclei in laboratory and field samples. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6327-6337.                            | 3.1  | 34        |
| 88 | Aircraft-based observations of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) in the tropical upper troposphere over the Amazon region. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14979-15001.   | 4.9  | 39        |
| 89 | Molecular dynamics simulation of the surface tension of aqueous sodium chloride: from dilute to highly supersaturated solutions and molten salt. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17077-17086.  | 4.9  | 32        |
| 90 | Anti-inflammatory effects of cinnamon extract and identification of active compounds influencing the TLR2 and TLR4 signaling pathways. <i>Food and Function</i> , 2018, 9, 5950-5964.   | 4.6  | 70        |

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|-----|--|------|-----------|
| 91  | Strong impact of wildfires on the abundance and aging of black carbon in the lowermost stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11595-E11603.  | 7.1  | 89        |
| 92  | Species Richness, rRNA Gene Abundance, and Seasonal Dynamics of Airborne Plant-Pathogenic Oomycetes. <i>Frontiers in Microbiology</i> , 2018, 9, 2673.   | 3.5  | 10        |
| 93  | Reactive Oxygen Species Formed by Secondary Organic Aerosols in Water and Surrogate Lung Fluid. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11642-11651.   | 10.0 | 59        |
| 94  | Screening of herbal extracts for TLR2- and TLR4-dependent anti-inflammatory effects. <i>PLoS ONE</i> , 2018, 13, e0203907.   | 2.5  | 48        |
| 95  | Long-term observations of cloud condensation nuclei over the Amazon rain forest – Part 2: Variability and characteristics of biomass burning, long-range transport, and pristine rain forest aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10289-10331. | 4.9  | 64        |
| 96  | Black and brown carbon over central Amazonia: long-term aerosol measurements at the ATTO site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12817-12843.   | 4.9  | 54        |
| 97  | Overview: Precipitation characteristics and sensitivities to environmental conditions during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6461-6482.   | 4.9  | 34        |
| 98  | Community composition and seasonal changes of archaea in coarse and fine air particulate matter. <i>Biogeosciences</i> , 2018, 15, 4205-4214.  | 3.3  | 12        |
| 99  | Nanomaterial – microbe cross-talk: physicochemical principles and (patho)biological consequences. <i>Chemical Society Reviews</i> , 2018, 47, 5312-5337.   | 38.1 | 44        |
| 100 | Long-term study on coarse mode aerosols in the Amazon rain forest with the frequent intrusion of Saharan dust plumes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10055-10088.  | 4.9  | 52        |
| 101 | African volcanic emissions influencing atmospheric aerosols over the Amazon rain forest. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10391-10405.   | 4.9  | 16        |
| 102 | Nitration of Wheat Amylase Trypsin Inhibitors Increases Their Innate and Adaptive Immunostimulatory Potential in vitro. <i>Frontiers in Immunology</i> , 2018, 9, 3174.  | 4.8  | 24        |
| 103 | Fresh water, marine and terrestrial cyanobacteria display distinct allergen characteristics. <i>Science of the Total Environment</i> , 2018, 612, 767-774.   | 8.0  | 19        |
| 104 | Cloud droplet activation through oxidation of organic aerosol influenced by temperature and particle phase state. <i>Geophysical Research Letters</i> , 2017, 44, 1583-1591.   | 4.0  | 53        |
| 105 | Reactive oxygen species formed in aqueous mixtures of secondary organic aerosols and mineral dust influencing cloud chemistry and public health in the Anthropocene. <i>Faraday Discussions</i> , 2017, 200, 251-270.  | 3.2  | 51        |
| 106 | Atmospheric protein chemistry influenced by anthropogenic air pollutants: nitration and oligomerization upon exposure to ozone and nitrogen dioxide. <i>Faraday Discussions</i> , 2017, 200, 413-427.  | 3.2  | 37        |
| 107 | Release of free amino acids upon oxidation of peptides and proteins by hydroxyl radicals. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2411-2420.  | 3.7  | 62        |
| 108 | Global distribution of particle phase state in atmospheric secondary organic aerosols. <i>Nature Communications</i> , 2017, 8, 15002.  | 12.8 | 295       |

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|-----|---|------|-----------|
| 109 | The Global Aerosol Synthesis and Science Project (GASSP): Measurements and Modeling to Reduce Uncertainty. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1857-1877.  | 3.3  | 52        |
| 110 | Allergenic Asteraceae in air particulate matter: quantitative DNA analysis of mugwort and ragweed. <i>Aerobiologia</i> , 2017, 33, 493-506.   | 1.7  | 9         |
| 111 | Simultaneous determination of nitrated and oligomerized proteins by size exclusion high-performance liquid chromatography coupled to photodiode array detection. <i>Journal of Chromatography A</i> , 2017, 1495, 76-82.                        | 3.7  | 13        |
| 112 | Air Pollution and Climate Change Effects on Allergies in the Anthropocene: Abundance, Interaction, and Modification of Allergens and Adjuvants. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4119-4141.                            | 10.0 | 193       |
| 113 | Chemical kinetics of multiphase reactions between ozone and human skin lipids: Implications for indoor air quality and health effects. <i>Indoor Air</i> , 2017, 27, 816-828.   | 4.3  | 64        |
| 114 | Severe Pollution in China Amplified by Atmospheric Moisture. <i>Scientific Reports</i> , 2017, 7, 15760.  | 3.3  | 151       |
| 115 | Heterogeneous OH Oxidation, Shielding Effects, and Implications for the Atmospheric Fate of Terbutylazine and Other Pesticides. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13749-13754.  | 10.0 | 24        |
| 116 | Aerosol Health Effects from Molecular to Global Scales. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13545-13567.  | 10.0 | 384       |
| 117 | The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 981-997.                         | 3.3  | 128       |
| 118 | Sensitivities of Amazonian clouds to aerosols and updraft speed. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10037-10050.  | 4.9  | 37        |
| 119 | Comparative measurements of ambient atmospheric concentrations of ice nucleating particles using multiple immersion freezing methods and a continuous flow diffusion chamber. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11227-11245. | 4.9  | 73        |
| 120 | Long-term measurements (2010–2014) of carbonaceous aerosol and carbon monoxide at the Zotino Tall Tower Observatory (ZOTTO) in central Siberia. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14365-14392.                               | 4.9  | 33        |
| 121 | Vertical distribution of the particle phase in tropical deep convective clouds as derived from cloud-side reflected solar radiation measurements. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9049-9066.                               | 4.9  | 14        |
| 122 | CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11779-11801.      | 4.9  | 71        |
| 123 | Light-induced protein nitration and degradation with HONO emission. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11819-11833.   | 4.9  | 22        |
| 124 | Regional modelling of polycyclic aromatic hydrocarbons: WRF-Chem-PAH model development and East Asia case studies. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12253-12267.  | 4.9  | 3         |
| 125 | Further evidence for CCN aerosol concentrations determining the height of warm rain and ice initiation in convective clouds over the Amazon basin. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14433-14456.                            | 4.9  | 58        |
| 126 | Illustration of microphysical processes in Amazonian deep convective clouds in the gamma phase space: introduction and potential applications. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14727-14746.                                | 4.9  | 8         |



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|-----|--|------|-----------|
| 127 | Comparing parameterized versus measured microphysical properties of tropical convective cloud bases during the ACRIDICON“CHUVA campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7365-7386.   | 4.9  | 30        |
| 128 | Technical note: Monte Carlo genetic algorithm (MCGA) for model analysis of multiphase chemical kinetics to determine transport and reaction rate coefficients using multiple experimental data sets. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8021-8029. | 4.9  | 33        |
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