# Ulrich PÃ¶schl

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | Raman microspectroscopy of soot and related carbonaceous materials: Spectral analysis and structural information. Carbon, 2005, 43, 1731-1742. | 10.3 | 3,468 |
| 2 | Atmospheric Aerosols: Composition, Transformation, Climate and Health Effects. Angewandte Chemie - International Edition, 2005, 44, 7520-7540. | 13.8 | 1,835 |
| 3 | Primary biological aerosol particles in the atmosphere: a review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 64, 15598. | 1.6 | 988 |
| 4 | Exploring the severe winter haze in Beijing: the impact of synoptic weather, regional transport and heterogeneous reactions. Atmospheric Chemistry and Physics, 2015, 15, 2969-2983. | 4.9 | 843 |
| 5 | Reactive nitrogen chemistry in aerosol water as a source of sulfate during haze events in China. Science Advances, 2016, 2, e1601530. | 10.3 | 820 |
| 6 | An amorphous solid state of biogenic secondary organic aerosol particles. Nature, 2010, 467, 824-827. | 27.8 | 719 |
| 7 | Atmospheric composition change â€“ global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350. | 4.1 | 714 |
| 8 | Contribution of cryptogamic covers to the global cycles of carbon and nitrogen. Nature Geoscience, 2012, 5, 459-462. | 12.9 | 711 |
| 9 | Bioaerosols in the Earth system: Climate, health, and ecosystem interactions. Atmospheric Research, 2016, 182, 346-376. | 4.1 | 609 |
| 10 | Glass transition and phase state of organic compounds: dependency on molecular properties and implications for secondary organic aerosols in the atmosphere. Physical Chemistry Chemical Physics, 2011, 13, 19238. | 2.8 | 585 |
| 11 | Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions. European Heart Journal, 2019, 40, 1590-1596. | 2.2 | 570 |
| 12 | Gas uptake and chemical aging of semisolid organic aerosol particles. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11003-11008. | 7.1 | 555 |
| 13 | Rainforest Aerosols as Biogenic Nuclei of Clouds and Precipitation in the Amazon. Science, 2010, 329, 1513-1516. | 12.6 | 541 |
| 14 | Calibration and measurement uncertainties of a continuous-flow cloud condensation nuclei counter (DMT-CCNC): CCN activation of ammonium sulfate and sodium chloride aerosol particles in theory and experiment. Atmospheric Chemistry and Physics, 2008, 8, 1153-1179. | 4.9 | 479 |
| 15 | Bacteria in the global atmosphere â€“ Part 1: Review and synthesis of literature data for different ecosystems. Atmospheric Chemistry and Physics, 2009, 9, 9263-9280. | 4.9 | 471 |
| 16 | Multiphase Chemistry at the Atmosphereâ€“Biosphere Interface Influencing Climate and Public Health in the Anthropocene. Chemical Reviews, 2015, 115, 4440-4475. | 47.7 | 468 |
| 17 | Contribution of fungi to primary biogenic aerosols in the atmosphere: wet and dry discharged spores, carbohydrates, and inorganic ions. Atmospheric Chemistry and Physics, 2007, 7, 4569-4588. | 4.9 | 456 |
| 18 | Amorphous and crystalline aerosol particles interacting with water vapor: conceptual framework and experimental evidence for restructuring, phase transitions and kinetic limitations. Atmospheric Chemistry and Physics, 2009, 9, 9491-9522. | 4.9 | 454 |

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| 19 | Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change. Atmospheric Chemistry and Physics, 2006, 6, 2017-2038. | 4.9 | 447 |
| 20 | Soil Nitrite as a Source of Atmospheric HONO and OH Radicals. Science, 2011, 333, 1616-1618. | 12.6 | 431 |
| 21 | Loss of life expectancy from air pollution compared to other risk factors: a worldwide perspective. Cardiovascular Research, 2020, 116, 1910-1917. | 3.8 | 427 |
| 22 | High diversity of fungi in air particulate matter. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12814-12819. | 7.1 | 414 |
| 23 | Aerosol Health Effects from Molecular to Global Scales. Environmental Science & Technology, 2017, 51, 13545-13567. | 10.0 | 384 |
| 24 | High concentrations of biological aerosol particles and ice nuclei during and after rain. Atmospheric Chemistry and Physics, 2013, 13, 6151-6164. | 4.9 | 355 |
| 25 | An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. Atmospheric Chemistry and Physics, 2010, 10, 10561-10605. | 4.9 | 352 |
| 26 | Cloud condensation nuclei in pristine tropical rainforest air of Amazonia: size-resolved measurements and modeling of atmospheric aerosol composition and CCN activity. Atmospheric Chemistry and Physics, 2009, 9, 7551-7575. | 4.9 | 347 |
| 27 | Aerosol- and updraft-limited regimes of cloud droplet formation: influence of particle number, size and hygroscopicity on the activation of cloud condensation nuclei (CCN). Atmospheric Chemistry and Physics, 2009, 9, 7067-7080. | 4.9 | 305 |
| 28 | Dryland photoautotrophic soil surface communities endangered by global change. Nature Geoscience, 2018, 11, 185-189. | 12.9 | 302 |
| 29 | Interaction of Ozone and Water Vapor with Spark Discharge Soot Aerosol Particles Coated with Benzo[a]pyrene:Â O3and H2O Adsorption, Benzo[a]pyrene Degradation, and Atmospheric Implications. Journal of Physical Chemistry A, 2001, 105, 4029-4041. | 2.5 | 300 |
| 30 | Global distribution of particle phase state in atmospheric secondary organic aerosols. Nature Communications, 2017, 8, 15002. | 12.8 | 295 |
| 31 | Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China â€" Part 1: Size-resolved measurements and implications for the modeling of aerosol particle hygroscopicity and CCN activity. Atmospheric Chemistry and Physics, 2010, 10, 3365-3383. | 4.9 | 294 |
| 32 | â€œWhat We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Healthâ€. Environmental Science & Technology, 2016, 50, 4895-4904. | 10.0 | 294 |
| 33 | Substantial convection and precipitation enhancements by ultrafineaerosol particles. Science, 2018, 359, 411-418. | 12.6 | 290 |
| 34 | Bacteria in the global atmosphere â€" Part 2: Modeling of emissions and transport between different ecosystems. Atmospheric Chemistry and Physics, 2009, 9, 9281-9297. | 4.9 | 284 |
| 35 | Sources and properties of Amazonian aerosol particles. Reviews of Geophysics, 2010, 48, . | 23.0 | 283 |
| 36 | Relative roles of biogenic emissions and Saharan dust as ice nuclei in the Amazon basin. Nature Geoscience, 2009, 2, 402-405. | 12.9 | 282 |

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| 37 | General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143. | 4.9 | 278 |
| 38 | HONO Emissions from Soil Bacteria as a Major Source of Atmospheric Reactive Nitrogen. Science, 2013, 341, 1233-1235. | 12.6 | 276 |
| 39 | Autofluorescence of atmospheric bioaerosols â€“ fluorescent biomolecules and potential interferences. Atmospheric Measurement Techniques, 2012, 5, 37-71. | 3.1 | 267 |
| 40 | Kinetic model framework for aerosol and cloud surface chemistry and gas-particle interactions â€“ Part 1: General equations, parameters, and terminology. Atmospheric Chemistry and Physics, 2007, 7, 5989-6023. | 4.9 | 262 |
| 41 | Polycyclic Aromatic Hydrocarbons in Urban Air Particulate Matter:Â Decadal and Seasonal Trends, Chemical Degradation, and Sampling Artifacts. Environmental Science & Technology, 2003, 37, 2861-2868. | 10.0 | 256 |
| 42 | Face masks effectively limit the probability of SARS-CoV-2 transmission. Science, 2021, 372, 1439-1443. | 12.6 | 240 |
| 43 | Global distribution of the effective aerosol hygroscopicity parameter for CCN activation. Atmospheric Chemistry and Physics, 2010, 10, 5241-5255. | 4.9 | 230 |
| 44 | Chemical exposure-response relationship between air pollutants and reactive oxygen species in the human respiratory tract. Scientific Reports, 2016, 6, 32916. | 3.3 | 228 |
| 45 | Biomass burning aerosol emissions from vegetation fires: particle number and mass emission factors and size distributions. Atmospheric Chemistry and Physics, 2010, 10, 1427-1439. | 4.9 | 227 |
| 46 | Ice nuclei in marine air: biogenic particles or dust?. Atmospheric Chemistry and Physics, 2013, 13, 245-267. | 4.9 | 226 |
| 47 | Bioprecipitation: a feedback cycle linking Earth history, ecosystem dynamics and land use through biological ice nucleators in the atmosphere. Global Change Biology, 2014, 20, 341-351. | 9.5 | 223 |
| 48 | The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. Atmospheric Chemistry and Physics, 2015, 15, 10723-10776. | 4.9 | 218 |
| 49 | Arctic Ozone Loss Due to Denitrification. Science, 1999, 283, 2064-2069. | 12.6 | 214 |
| 50 | Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). Atmospheric Chemistry and Physics, 2016, 16, 4785-4797. | 4.9 | 213 |
| 51 | Interaction of aerosol particles composed of protein and saltswith water vapor: hygroscopic growth and microstructural rearrangement. Atmospheric Chemistry and Physics, 2004, 4, 323-350. | 4.9 | 212 |
| 52 | Title is missing!. Journal of Atmospheric Chemistry, 2000, 37, 29-52. | 3.2 | 204 |
| 53 | Fluorescent biological aerosol particle concentrations and size distributions measured with an Ultraviolet Aerodynamic Particle Sizer (UV-APS) in Central Europe. Atmospheric Chemistry and Physics, 2010, 10, 3215-3233. | 4.9 | 199 |
| 54 | Ice nucleation by water-soluble macromolecules. Atmospheric Chemistry and Physics, 2015, 15, 4077-4091. | 4.9 | 198 |

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| 55 | Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2009, 9, 2825-2841. | 4.9 | 196 |
| 56 | Global cloud condensation nuclei influenced by carbonaceous combustion aerosol. Atmospheric Chemistry and Physics, 2011, 11, 9067-9087. | 4.9 | 194 |
| 57 | Air Pollution and Climate Change Effects on Allergies in the Anthropocene: Abundance, Interaction, and Modification of Allergens and Adjuvants. Environmental Science & Technology, 2017, 51, 4119-4141. | 10.0 | 193 |
| 58 | Sensitivities in global scale modeling of isoprene. Atmospheric Chemistry and Physics, 2004, 4, 1-17. | 4.9 | 190 |
| 59 | Biogenic Potassium Salt Particles as Seeds for Secondary Organic Aerosol in the Amazon. Science, 2012, 337, 1075-1078. | 12.6 | 188 |
| 60 | Atmospheric polycyclic aromatic hydrocarbons observed over the North Pacific Ocean and the Arctic area: Spatial distribution and source identification. Atmospheric Environment, 2007, 41, 2061-2072. | 4.1 | 187 |
| 61 | Size distributions and temporal variations of biological aerosol particles in the Amazon rainforest characterized by microscopy and real-time UV-APS fluorescence techniques during AMAZE-08. Atmospheric Chemistry and Physics, 2012, 12, 11997-12019. | 4.9 | 187 |
| 62 | Rapid aerosol particle growth and increase of cloud condensation nucleus activity by secondary aerosol formation and condensation: A case study for regional air pollution in northeastern China. Journal of Geophysical Research, 2009, 114, . | 3.3 | 186 |
| 63 | Protein Nitration by Polluted Air. Environmental Science & Technology, 2005, 39, 1673-1678. | 10.0 | 183 |
| 64 | Ice-nucleating bacteria control the order and dynamics of interfacial water. Science Advances, 2016, 2, e1501630. | 10.3 | 182 |
| 65 | Isoprene and monoterpene fluxes from Central Amazonian rainforest inferred from tower-based and airborne measurements, and implications on the atmospheric chemistry and the local carbon budget. Atmospheric Chemistry and Physics, 2007, 7, 2855-2879. | 4.9 | 181 |
| 66 | Kinetic multi-layer model of aerosol surface and bulk chemistry (KM-SUB): the influence of interfacial transport and bulk diffusion on the oxidation of oleic acid by ozone. Atmospheric Chemistry and Physics, 2010, 10, 3673-3691. | 4.9 | 178 |
| 67 | The Palaeoanthropocene â€“ The beginnings of anthropogenic environmental change. Anthropocene, 2013, 3, 83-88. | 3.3 | 178 |
| 68 | Seasonal cycle and temperature dependence of pinene oxidation products, dicarboxylic acids and nitrophenols in fine and coarse air particulate matter. Atmospheric Chemistry and Physics, 2010, 10, 7859-7873. | 4.9 | 172 |
| 69 | The role of long-lived reactive oxygen intermediates in the reaction of ozone with aerosol particles. Nature Chemistry, 2011, 3, 291-295. | 13.6 | 172 |
| 70 | Characterization of primary biogenic aerosol particles in urban, rural, and high-alpine air by DNA sequence and restriction fragment analysis of ribosomal RNA genes. Biogeosciences, 2007, 4, 1127-1141. | 3.3 | 171 |
| 71 | Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. Geophysical Research Letters, 2009, 36, . | 4.0 | 171 |
| 72 | An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). Atmospheric Chemistry and Physics, 2010, 10, 11415-11438. | 4.9 | 170 |

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| 73 | Kinetic multi-layer model of gas-particle interactions in aerosols and clouds (KM-GAP): linking condensation, evaporation and chemical reactions of organics, oxidants and water. Atmospheric Chemistry and Physics, 2012, 12, 2777-2794. | 4.9 | 170 |
| 74 | Molecular corridors and parameterizations of volatility in the chemical evolution of organic aerosols. Atmospheric Chemistry and Physics, 2016, 16, 3327-3344. | 4.9 | 170 |
| 75 | Comprehensive kinetic characterization of the oxidation and gasification of model and real diesel soot by nitrogen oxides and oxygen under engine exhaust conditions: Measurement, Langmuirâ€“Hinshelwood, and Arrhenius parameters. Carbon, 2006, 44, 307-324. | 10.3 | 161 |
| 76 | Model Calculations of Aerosol Transmission and Infection Risk of COVID-19 in Indoor Environments. International Journal of Environmental Research and Public Health, 2020, 17, 8114. | 2.6 | 158 |
| 77 | Raman Microspectroscopic Analysis of Changes in the Chemical Structure and Reactivity of Soot in a Diesel Exhaust Aftertreatment Model System. Environmental Science & Technology, 2007, 41, 3702-3707. | 10.0 | 156 |
| 78 | Effects of reversible adsorption and Langmuirâ€“Hinshelwood surface reactions on gas uptake by atmospheric particles. Physical Chemistry Chemical Physics, 2003, 5, 351-356. | 2.8 | 153 |
| 79 | Hazardous components and health effects of atmospheric aerosol particles: reactive oxygen species, soot, polycyclic aromatic compounds and allergenic proteins. Free Radical Research, 2012, 46, 927-939. | 3.3 | 153 |
| 80 | Biological soil crusts accelerate the nitrogen cycle through large NO and HONO emissions in drylands. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15384-15389. | 7.1 | 153 |
| 81 | Biogeography in the air: fungal diversity over land and oceans. Biogeosciences, 2012, 9, 1125-1136. | 3.3 | 152 |
| 82 | Competition between water uptake and ice nucleation by glassy organic aerosol particles. Atmospheric Chemistry and Physics, 2014, 14, 12513-12531. | 4.9 | 151 |
| 83 | Severe Pollution in China Amplified by Atmospheric Moisture. Scientific Reports, 2017, 7, 15760. | 3.3 | 151 |
| 84 | Aerosol optical properties in a rural environment near the mega-city Guangzhou, China: implications for regional air pollution, radiative forcing and remote sensing. Atmospheric Chemistry and Physics, 2008, 8, 5161-5186. | 4.9 | 150 |
| 85 | Cloud condensation nuclei (CCN) from fresh and aged air pollution in the megacity region of Beijing. Atmospheric Chemistry and Physics, 2011, 11, 11023-11039. | 4.9 | 147 |
| 86 | Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China â€" Part 2: Size-resolved aerosol chemical composition, diurnal cycles, and externally mixed weakly CCN-active soot particles. Atmospheric Chemistry and Physics, 2011, 11, 2817-2836. | 4.9 | 146 |
| 87 | Title is missing!. Journal of Atmospheric Chemistry, 2001, 38, 133-166. | 3.2 | 145 |
| 88 | Pressure and Temperature Dependence of the Gas-Phase Reaction of SO3with H2O and the Heterogeneous Reaction of SO3with H2O/H2SO4Surfaces. Journal of Physical Chemistry A, 1997, 101, 10000-10011. | 2.5 | 144 |
| 89 | Atmospheric nucleation: highlights of the EUCAARI project and future directions. Atmospheric Chemistry and Physics, 2010, 10, 10829-10848. | 4.9 | 144 |
| 90 | Biological aerosol particles as a key determinant of ice nuclei populations in a forest ecosystem. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,100. | 3.3 | 144 |

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| 91 | Microbiology and atmospheric processes: chemical interactions of primary biological aerosols. Biogeosciences, 2008, 5, 1073-1084. | 3.3 | 140 |
| 92 | Enhanced organic mass fraction and decreased hygroscopicity of cloud condensation nuclei (CCN) during new particle formation events. Geophysical Research Letters, 2010, 37, . | 4.0 | 138 |
| 93 | Hydroxyl radicals from secondary organic aerosol decomposition in water. Atmospheric Chemistry and Physics, 2016, 16, 1761-1771. | 4.9 | 138 |
| 94 | Kinetic limitations in gas-particle reactions arising from slow diffusion in secondary organic aerosol. Faraday Discussions, 2013, 165, 391-406. | 3.2 | 132 |
| 95 | Size dependence of phase transitions in aerosol nanoparticles. Nature Communications, 2015, 6, 5923. | 12.8 | 131 |
| 96 | The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. Bulletin of the American Meteorological Society, 2017, 98, 981-997. | 3.3 | 128 |
| 97 | Microstructure and oxidation behaviour of Euro IV diesel engine soot: a comparative study with synthetic model soot substances. Catalysis Today, 2004, 90, 127-132. | 4.4 | 127 |
| 98 | Ice nucleation activity in the widespread soil fungus <i>Mortierella alpina</i>. Biogeosciences, 2015, 12, 1057-1071. | 3.3 | 127 |
| 99 | ACRIDICONâ€"CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. Bulletin of the American Meteorological Society, 2016, 97, 1885-1908. | 3.3 | 124 |
| 100 | Raman Microspectroscopic Analysis of Size-Resolved Atmospheric Aerosol Particle Samples Collected with an ELPI: Soot, Humic-Like Substances, and Inorganic Compounds. Aerosol Science and Technology, 2007, 41, 655-671. | 3.1 | 119 |
| 101 | Ozone uptake on glassy, semi-solid and liquid organic matter and the role of reactive oxygen intermediates in atmospheric aerosol chemistry. Physical Chemistry Chemical Physics, 2016, 18, 12662-12674. | 2.8 | 117 |
| 102 | Hygroscopicity distribution concept for measurement data analysis and modeling of aerosol particle mixing state with regard to hygroscopic growth and CCN activation. Atmospheric Chemistry and Physics, 2010, 10, 7489-7503. | 4.9 | 116 |
| 103 | Multiphase buffer theory explains contrasts in atmospheric aerosol acidity. Science, 2020, 369, 1374-1377. | 12.6 | 115 |
| 104 | Nitration Enhances the Allergenic Potential of Proteins. International Archives of Allergy and Immunology, 2006, 141, 265-275. | 2.1 | 114 |
| 105 | High spatial and temporal resolution measurements of primary organics and their oxidation products over the tropical forests of Surinam. Atmospheric Environment, 2000, 34, 1161-1165. | 4.1 | 111 |
| 106 | Title is missing!. Journal of Atmospheric Chemistry, 2001, 38, 167-185. | 3.2 | 111 |
| 107 | The impact of rain on ice nuclei populations at a forested site in Colorado. Geophysical Research Letters, 2013, 40, 227-231. | 4.0 | 110 |
| 108 | Quantification of environmentally persistent free radicals and reactive oxygen species in atmospheric aerosol particles. Atmospheric Chemistry and Physics, 2016, 16, 13105-13119. | 4.9 | 110 |

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| 109 | Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. Atmospheric Chemistry and Physics, 2018, 18, 2853-2881. | 4.9 | 108 |
| 110 | Long-term observations of cloud condensation nuclei in the Amazon rain forest â€“ Part 1: Aerosol size distribution, hygroscopicity, and new model parametrizations for CCN prediction. Atmospheric Chemistry and Physics, 2016, 16, 15709-15740. | 4.9 | 105 |
| 111 | Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. Atmospheric Chemistry and Physics, 2018, 18, 921-961. | 4.9 | 105 |
| 112 | Estimating global carbon uptake by lichens and bryophytes with a process-based model. Biogeosciences, 2013, 10, 6989-7033. | 3.3 | 102 |
| 113 | Estimating impacts of lichens and bryophytes on global biogeochemical cycles. Global Biogeochemical Cycles, 2014, 28, 71-85. | 4.9 | 102 |
| 114 | Multiphase Chemical Kinetics of OH Radical Uptake by Molecular Organic Markers of Biomass Burning Aerosols: Humidity and Temperature Dependence, Surface Reaction, and Bulk Diffusion. Journal of Physical Chemistry A, 2015, 119, 4533-4544. | 2.5 | 101 |
| 115 | Direct imaging of changes in aerosol particle viscosity upon hydration and chemical aging. Chemical Science, 2016, 7, 1357-1367. | 7.4 | 101 |
| 116 | Aerosol optical properties observed during Campaign of Air Quality Research in Beijing 2006 (CAREBeijingâ€2006): Characteristic differences between the inflow and outflow of Beijing city air. Journal of Geophysical Research, 2009, 114, . | 3.3 | 100 |
| 117 | Influence of soot mixing state on aerosol light absorption and single scattering albedo during air mass aging at a polluted regional site in northeastern China. Journal of Geophysical Research, 2009, 114, . | 3.3 | 100 |
| 118 | Temperature effect on phase state and reactivity controls atmospheric multiphase chemistry and transport of PAHs. Science Advances, 2018, 4, eaap7314. | 10.3 | 100 |
| 119 | Analysis of nitrated polycyclic aromatic hydrocarbons by liquid chromatography with fluorescence and mass spectrometry detection: air particulate matter, soot, and reaction product studies. Analytical and Bioanalytical Chemistry, 2004, 378, 725-736. | 3.7 | 99 |
| 120 | Kinetic double-layer model of aerosol surface chemistry and gas-particle interactions (K2-SURF): Degradation of polycyclic aromatic hydrocarbons exposed to O<sub>3</sub>, NO<sub>2</sub>, H<sub>2</sub>O, OH and NO<sub>3</sub>. Atmospheric Chemistry and Physics, 2009, 9, 9571-9586. | 4.9 | 99 |
| 121 | Thermophoretic deposition of soot aerosol particles under experimental conditions relevant for modern diesel engine exhaust gas systems. Journal of Aerosol Science, 2003, 34, 1009-1021. | 3.8 | 98 |
| 122 | Chemical ageing and transformation of diffusivity in semi-solid multi-component organic aerosol particles. Atmospheric Chemistry and Physics, 2011, 11, 7343-7354. | 4.9 | 98 |
| 123 | Effects of atmospheric conditions on ice nucleation activity of <i>Pseudomonas</i>. Atmospheric Chemistry and Physics, 2012, 12, 10667-10677. | 4.9 | 98 |
| 124 | Autofluorescence of atmospheric bioaerosols: spectral fingerprints and taxonomic trends of pollen. Atmospheric Measurement Techniques, 2013, 6, 3369-3392. | 3.1 | 94 |
| 125 | Nitrous oxide and methane emissions from cryptogamic covers. Global Change Biology, 2015, 21, 3889-3900. | 9.5 | 94 |
| 126 | Enhanced aerosol particle growth sustained by high continental chlorine emission in India. Nature Geoscience, 2021, 14, 77-84. | 12.9 | 94 |

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| 127 | Chemists can help to solve the air-pollution health crisis. Nature, 2017, 551, 291-293. | 27.8 | 93 |
| 128 | Aerosol particle analysis: challenges and progress. Analytical and Bioanalytical Chemistry, 2003, 375, 30-32. | 3.7 | 92 |
| 129 | Mass Accommodation Coefficient of H2SO4Vapor on Aqueous Sulfuric Acid Surfaces and Gaseous Diffusion Coefficient of H2SO4in N2/H2O. Journal of Physical Chemistry A, 1998, 102, 10082-10089. | 2.5 | 91 |
| 130 | Satellite retrieval of cloud condensation nuclei concentrations by using clouds as CCN chambers. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5828-5834. | 7.1 | 91 |
| 131 | New Multiphase Chemical Processes Influencing Atmospheric Aerosols, Air Quality, and Climate in the Anthropocene. Accounts of Chemical Research, 2020, 53, 2034-2043. | 15.6 | 90 |
| 132 | Strong impact of wildfires on the abundance and aging of black carbon in the lowermost stratosphere. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11595-E11603. | 7.1 | 89 |
| 133 | Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). Atmospheric Chemistry and Physics, 2015, 15, 3687-3701. | 4.9 | 88 |
| 134 | EUREC<sup>4</sup>A. Earth System Science Data, 2021, 13, 4067-4119. | 9.9 | 88 |
| 135 | Molecular corridors and kinetic regimes in the multiphase chemical evolution of secondary organic aerosol. Atmospheric Chemistry and Physics, 2014, 14, 8323-8341. | 4.9 | 87 |
| 136 | Cloud droplet activation of mixed organic-sulfate particles produced by the photooxidation of isoprene. Atmospheric Chemistry and Physics, 2010, 10, 3953-3964. | 4.9 | 86 |
| 137 | Seasonal cycles of fluorescent biological aerosol particles in boreal and semi-arid forests of Finland and Colorado. Atmospheric Chemistry and Physics, 2013, 13, 11987-12001. | 4.9 | 85 |
| 138 | Kinetic model framework for aerosol and cloud surface chemistry and gas-particle interactions â€“ Part 2: Exemplary practical applications and numerical simulations. Atmospheric Chemistry and Physics, 2007, 7, 6025-6045. | 4.9 | 84 |
| 139 | Size-resolved measurement of the mixing state of soot in the megacity Beijing, China: diurnal cycle, aging and parameterization. Atmospheric Chemistry and Physics, 2012, 12, 4477-4491. | 4.9 | 81 |
| 140 | Mass Accommodation of Water: Bridging the Gap Between Molecular Dynamics Simulations and Kinetic Condensation Models. Journal of Physical Chemistry A, 2013, 117, 410-420. | 2.5 | 81 |
| 141 | Microstructural rearrangement of sodium chloride condensation aerosol particles on interaction with water vapor. Journal of Aerosol Science, 2000, 31, 673-685. | 3.8 | 80 |
| 142 | Multiphase Chemical Kinetics of the Nitration of Aerosolized Protein by Ozone and Nitrogen Dioxide. Environmental Science & Technology, 2012, 46, 6672-6680. | 10.0 | 80 |
| 143 | Ambient measurements of biological aerosol particles near Killarney, Ireland: a comparison between real-time fluorescence and microscopy techniques. Atmospheric Chemistry and Physics, 2014, 14, 8055-8069. | 4.9 | 79 |
| 144 | Compilation and evaluation of gas phase diffusion coefficients of reactive trace gases in the atmosphere: Volume 2. Diffusivities of organic compounds, pressure-normalised mean free paths, and average Knudsen numbers for gas uptake calculations. Atmospheric Chemistry and Physics, 2015, 15, 5585-5598. | 4.9 | 78 |

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| 145 | Correction for a measurement artifact of the Multi-Angle Absorption Photometer (MAAP) at high black carbon mass concentration levels. Atmospheric Measurement Techniques, 2013, 6, 81-90. | 3.1 | 77 |
| 146 | Kinetic regimes and limiting cases of gas uptake and heterogeneous reactions in atmospheric aerosols and clouds: a general classification scheme. Atmospheric Chemistry and Physics, 2013, 13, 6663-6686. | 4.9 | 77 |
| 147 | On the background photochemistry of tropospheric ozone. Tellus, Series A: Dynamic Meteorology and Oceanography, 1999, 51, 123-146. | 1.7 | 74 |
| 148 | Fluorescent bioaerosol particle, molecular tracer, and fungal spore concentrations during dry and rainy periods in a semi-arid forest. Atmospheric Chemistry and Physics, 2016, 16, 15165-15184. | 4.9 | 73 |
| 149 | Comparative measurements of ambient atmospheric concentrations of ice nucleating particles using multiple immersion freezing methods and a continuous flow diffusion chamber. Atmospheric Chemistry and Physics, 2017, 17, 11227-11245. | 4.9 | 73 |
| 150 | High potential for weathering and climate effects of non-vascular vegetation in the Late Ordovician. Nature Communications, 2016, 7, 12113. | 12.8 | 72 |
| 151 | Spatiotemporal variability and contribution of different aerosol types to the aerosol optical depth over the Eastern Mediterranean. Atmospheric Chemistry and Physics, 2016, 16, 13853-13884. | 4.9 | 71 |
| 152 | CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. Atmospheric Chemistry and Physics, 2017, 17, 11779-11801. | 4.9 | 71 |
| 153 | Anti-inflammatory effects of cinnamon extract and identification of active compounds influencing the TLR2 and TLR4 signaling pathways. Food and Function, 2018, 9, 5950-5964. | 4.6 | 70 |
| 154 | Daytime formation of nitrous acid at a coastal remote site in Cyprus indicating a common ground source of atmospheric HONO and NO. Atmospheric Chemistry and Physics, 2016, 16, 14475-14493. | 4.9 | 69 |
| 155 | Multi-Stage Open Peer Review: Scientific Evaluation Integrating the Strengths of Traditional Peer Review with the Virtues of Transparency and Self-Regulation. Frontiers in Computational Neuroscience, 2012, 6, 33. | 2.1 | 67 |
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