

# Ulrich Pschl

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

428  
papers

32,973  
citations

96  
h-index

173  
g-index

613  
ext. papers

38,719  
ext. citations

7.8  
avg, IF

7.37  
L-index

#	Paper	IF	Citations
428	Bioaerosols and atmospheric ice nuclei in a Mediterranean dryland: community changes related to rainfall. <i>Biogeosciences</i> , <b>2022</b> , 19, 71-91	4.6	0
427	Tropical and Boreal Forest ↔ Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2022</b> , 74, 24-163	3.3	1
426	Occurrence and growth of sub-50 nm aerosol particles in the Amazonian boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 3469-3492	6.8	2
425	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> , <b>2022</b> , 1	4.4	3
424	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> , <b>2022</b> , 22, 5877-5924	6.8	0
423	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. <i>Nature Communications</i> , <b>2021</b> , 12, 6416	17.4	7
422	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> , <b>2021</b> , 14, 6991-7005	4	
421	Water-driven microbial nitrogen transformations in biological soil crusts causing atmospheric nitrous acid and nitric oxide emissions. <i>ISME Journal</i> , <b>2021</b> ,	11.9	1
420	Planetary Boundary Layer Height Modulates Aerosol↔Water Vapor Interactions During Winter in the Megacity of Delhi. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD035681	4.4	0
419	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> , <b>2021</b> , 55, 14069-14079	10.3	4
418	Membranes Are Decisive for Maximum Freezing Efficiency of Bacterial Ice Nucleators. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10783-10787	6.4	2
417	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> , <b>2021</b> , 21, 6175-6198	6.8	1
416	Measurements from the RV <i>Ronald H. Brown</i> and related platforms as part of the Atlantic Tradewind Ocean-Atmosphere Mesoscale Interaction Campaign (ATOMIC). <i>Earth System Science Data</i> , <b>2021</b> , 13, 1759-1790	10.5	9
415	Water uptake of subpollen aerosol particles: hygroscopic growth, cloud condensation nuclei activation, and liquid↔liquid phase separation. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 6999-7022	6.8	4
414	Face masks effectively limit the probability of SARS-CoV-2 transmission. <i>Science</i> , <b>2021</b> , 372,	33.3	73
413	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> , <b>2021</b> , 22,	6.3	2
412	Interfacial Water Ordering Is Insufficient to Explain Ice-Nucleating Protein Activity. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 218-223	6.4	6

411	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> , <b>2021</b> , 21, 1565-1580	6.8	9
410	Specific Ion-Protein Interactions Influence Bacterial Ice Nucleation. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 7402-7407	4.8	6
409	Aqueous-phase reactive species formed by fine particulate matter from remote forests and polluted urban air. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 10439-10455	6.8	3
408	EUREC4A. <i>Earth System Science Data</i> , <b>2021</b> , 13, 4067-4119	10.5	26
407	Gas-Phase Reaction Kinetics of the Ortho and Ipso Adducts 1,2,4,5-Tetramethylbenzene (DM) with O <sub>2</sub> . <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 2243-2251	3.2	0
406	Aitken mode particles as CCN in aerosol- and updraft-sensitive regimes of cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11723-11740	6.8	3
405	Bioaerosols in the Amazon rain forest: temporal variations and vertical profiles of Eukarya, Bacteria, and Archaea. <i>Biogeosciences</i> , <b>2021</b> , 18, 4873-4887	4.6	3
404	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> , <b>2021</b> , 21, 14079-14088	6.8	0
403	Observed and Simulated Variability of Droplet Spectral Dispersion in Convective Clouds Over the Amazon. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD035076	4.4	1
402	Multiphase chemistry experiment in Fogs and Aerosols in the North China Plain (McFAN): integrated analysis and intensive winter campaign 2018. <i>Faraday Discussions</i> , <b>2021</b> , 226, 207-222	3.6	10
401	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , <b>2021</b> , 14, 77-84	18.3	37
400	How weather events modify aerosol particle size distributions in the Amazon boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 18065-18086	6.8	2
399	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> , <b>2021</b> , 21, 17513-17528	6.8	0
398	Inhibition of Bacterial Ice Nucleators Is Not an Intrinsic Property of Antifreeze Proteins. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 4889-4895	3.4	8
397	Aerosol measurement methods to quantify spore emissions from fungi and cryptogamic covers in the Amazon. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 153-164	4	7
396	Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 661-684	4	8
395	The challenge of simulating the sensitivity of the Amazonian cloud microstructure to cloud condensation nuclei number concentrations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 1591-1605	6.8	3
394	Electrostatic Interactions Control the Functionality of Bacterial Ice Nucleators. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6842-6846	16.4	13

393	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> , <b>2020</b> , 20, 4757-4785	6.8	16
392	Aerosol pH and chemical regimes of sulfate formation in aerosol water during winter haze in the North China Plain <b>2020</b> ,		2
391	Inappropriate evaluation of methodology and biases by P. Morfeld and T.C. Erren. <i>Cardiovascular Research</i> , <b>2020</b> , 116, e102	9.9	1
390	Loss of life expectancy from air pollution compared to other risk factors: a worldwide perspective. <i>Cardiovascular Research</i> , <b>2020</b> , 116, 1910-1917	9.9	185
389	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> , <b>2020</b> , 20, 11729-11746	6.8	17
388	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> , <b>2020</b> , 20, 13283-13301	6.8	19
387	MIMiX: a Multipurpose In situ Microreactor system for X-ray microspectroscopy to mimic atmospheric aerosol processing. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 3717-3729	4	1
386	Nano-hygroscopicity tandem differential mobility analyzer (nano-HTDMA) for investigating hygroscopic properties of sub-10 nm aerosol nanoparticles. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 5551-5567	4	3
385	Multifactor colorimetric analysis on pH-indicator papers: an optimized approach for direct determination of ambient aerosol pH. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 6053-6065	4	7
384	Air Pollution, Oxidative Stress, and Public Health in the Anthropocene <b>2020</b> , 79-92		2
383	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> , <b>2020</b> , 117, 31018-31025	11.5	23
382	Model Calculations of Aerosol Transmission and Infection Risk of COVID-19 in Indoor Environments. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	78
381	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> , <b>2020</b> , 37, 101581	11.3	13
380	Modeling the Formation, Degradation, and Spatiotemporal Distribution of 2-Nitrofluoranthene and 2-Nitropyrene in the Global Atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 14224-14234	10.3	9
379	New Multiphase Chemical Processes Influencing Atmospheric Aerosols, Air Quality, and Climate in the Anthropocene. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 2034-2043	24.3	32
378	Multiphase buffer theory explains contrasts in atmospheric aerosol acidity. <i>Science</i> , <b>2020</b> , 369, 1374-1377	33.3	52
377	Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 12506-12518	10.3	30
376	Size-Resolved Single-Particle Fluorescence Spectrometer for Real-Time Analysis of Bioaerosols: Laboratory Evaluation and Atmospheric Measurements. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 13257-13264	10.3	6

375	Global NO and HONO emissions of biological soil crusts estimated by a process-based non-vascular vegetation model. <i>Biogeosciences</i> , <b>2019</b> , 16, 2003-2031	4.6	8
374	Nanoscale distribution of TLR4 on primary human macrophages stimulated with LPS and ATI. <i>Nanoscale</i> , <b>2019</b> , 11, 9769-9779	7.7	11
373	Soil HONO emissions at high moisture content are driven by microbial nitrate reduction to nitrite: tackling the HONO puzzle. <i>ISME Journal</i> , <b>2019</b> , 13, 1688-1699	11.9	34
372	Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions. <i>European Heart Journal</i> , <b>2019</b> , 40, 1590-1596	9.5	349
371	Antioxidant activity of cerium dioxide nanoparticles and nanorods in scavenging hydroxyl radicals.. <i>RSC Advances</i> , <b>2019</b> , 9, 11077-11081	3.7	26
370	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> , <b>2019</b> , 19, 2209-2232	6.8	9
369	Spectral Intensity Bioaerosol Sensor (SIBS): an instrument for spectrally resolved fluorescence detection of single particles in real time. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 1337-1363	4	19
368	Land cover and its transformation in the backward trajectory footprint region of the Amazon Tall Tower Observatory. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 8425-8470	6.8	27
367	Relative importance of gas uptake on aerosol and ground surfaces characterized by equivalent uptake coefficients. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 10981-11011	6.8	11
366	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> , <b>2019</b> , 21, 3360-3369	3.6	16
365	Macromolecular fungal ice nuclei in <i>Fusarium</i> : effects of physical and chemical processing. <i>Biogeosciences</i> , <b>2019</b> , 16, 4647-4659	4.6	16
364	Nitration of Wheat Amylase Trypsin Inhibitors Increases Their Innate and Adaptive Immunostimulatory Potential. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 3174	8.4	15
363	Dryland photoautotrophic soil surface communities endangered by global change. <i>Nature Geoscience</i> , <b>2018</b> , 11, 185-189	18.3	158
362	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> , <b>2018</b> , 18, 2853-2881	6.8	62
361	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 921-961	6.8	69
360	Substantial convection and precipitation enhancements by ultrafine aerosol particles. <i>Science</i> , <b>2018</b> , 359, 411-418	33.3	206
359	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> , <b>2018</b> , 18, 2669-2686	6.8	5
358	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> , <b>2018</b> , 18, 4439-4462	6.8	9

357	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> , <b>2018</b> , 18, 799-813	6.8	36
356	Temperature effect on phase state and reactivity controls atmospheric multiphase chemistry and transport of PAHs. <i>Science Advances</i> , <b>2018</b> , 4, eaap7314	14.3	62
355	Land cover and its transformation in the backward trajectory footprint region of the Amazon Tall Tower Observatory <b>2018</b> ,		3
354	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> , <b>2018</b> , 18, 10055-10088	6.8	33
353	African volcanic emissions influencing atmospheric aerosols over the Amazon rain forest. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10391-10405	6.8	12
352	Fresh water, marine and terrestrial cyanobacteria display distinct allergen characteristics. <i>Science of the Total Environment</i> , <b>2018</b> , 612, 767-774	10.2	14
351	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> , <b>2018</b> , 11, 6327-6337	4	23
350	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> , <b>2018</b> , 18, 14979-15001	6.8	25
349	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> , <b>2018</b> , 18, 17077-17086	6.8	18
348	Anti-inflammatory effects of cinnamon extract and identification of active compounds influencing the TLR2 and TLR4 signaling pathways. <i>Food and Function</i> , <b>2018</b> , 9, 5950-5964	6.1	29
347	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> , <b>2018</b> , 115, E11595-E11603	11.5	59
346	Species Richness, rRNA Gene Abundance, and Seasonal Dynamics of Airborne Plant-Pathogenic Oomycetes. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2673	5.7	5
345	Physicochemical uptake and release of volatile organic compounds by soil in coated-wall flow tube experiments with ambient air <b>2018</b> ,		1
344	Reactive Oxygen Species Formed by Secondary Organic Aerosols in Water and Surrogate Lung Fluid. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 11642-11651	10.3	43
343	Screening of herbal extracts for TLR2- and TLR4-dependent anti-inflammatory effects. <i>PLoS ONE</i> , <b>2018</b> , 13, e0203907	3.7	30
342	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> , <b>2018</b> , 18, 10289-10331	6.8	41
341	Black and brown carbon over central Amazonia: long-term aerosol measurements at the ATTO site. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12817-12843	6.8	35
340	Overview: Precipitation characteristics and sensitivities to environmental conditions during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 6461-6482	6.8	21



339	Community composition and seasonal changes of archaea in coarse and fine air particulate matter. <i>Biogeosciences</i> , <b>2018</b> , 15, 4205-4214	4.6	8
338	Aircraft-based observations of isoprene epoxydiol-derived secondary organic aerosol (IEPOX-SOA) in the tropical upper troposphere over the Amazon region <b>2018</b> ,		2
337	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 5312-5337	58.5	39
336	Cloud droplet activation through oxidation of organic aerosol influenced by temperature and particle phase state. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1583-1591	4.9	37
335	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> , <b>2017</b> , 200, 251-270	3.6	35
334	Atmospheric protein chemistry influenced by anthropogenic air pollutants: nitration and oligomerization upon exposure to ozone and nitrogen dioxide. <i>Faraday Discussions</i> , <b>2017</b> , 200, 413-427	3.6	22
333	Release of free amino acids upon oxidation of peptides and proteins by hydroxyl radicals. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 2411-2420	4.4	40
332	Global distribution of particle phase state in atmospheric secondary organic aerosols. <i>Nature Communications</i> , <b>2017</b> , 8, 15002	17.4	192
331	The Global Aerosol Synthesis and Science Project (GASSP): Measurements and Modeling to Reduce Uncertainty. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 1857-1877	6.1	43
330	Allergenic Asteraceae in air particulate matter: quantitative DNA analysis of mugwort and ragweed. <i>Aerobiologia</i> , <b>2017</b> , 33, 493-506	2.4	6
329	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> , <b>2017</b> , 1495, 76-82	4.5	8
328	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> , <b>2017</b> , 51, 4119-4141	10.3	123
327	Chemical kinetics of multiphase reactions between ozone and human skin lipids: Implications for indoor air quality and health effects. <i>Indoor Air</i> , <b>2017</b> , 27, 816-828	5.4	51
326	Long-term measurements (2010-2014) of carbonaceous aerosol and carbon monoxide at the Zotino Tall Tower Observatory (ZOTTO) in central Siberia <b>2017</b> ,		1
325	Vertical distribution of the phase state of particles in tropical deep-convective clouds as derived from cloud-side reflected solar radiation measurements <b>2017</b> ,		1
324	Estimating global nitrous oxide emissions by lichens and bryophytes with a process-based productivity model. <i>Biogeosciences</i> , <b>2017</b> , 14, 1593-1602	4.6	19
323	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin <b>2017</b> ,		5
322	Long-term observations of cloud condensation nuclei in the Amazon rain forest [Part 2: Variability and characteristic differences under near-pristine, biomass burning, and long-range transport conditions <b>2017</b> ,		4

321	Illustration of microphysical processes in Amazonian deep convective clouds in the Gamma phase space: Introduction and potential applications <b>2017</b> ,		2
320	Chemists can help to solve the air-pollution health crisis. <i>Nature</i> , <b>2017</b> , 551, 291-293	50.4	61
319	Comparing Airborne and Satellite Retrievals of Optical and Microphysical Properties of Cirrus and Deep Convective Clouds using a Radiance Ratio Technique <b>2017</b> ,		1
318	Dependence of the hygroscopicity parameter $\kappa$ on particle size, humidity and solute concentration: implications for laboratory experiments, field measurements and model studies <b>2017</b> ,		8
317	Sensitivities of Amazonian clouds to aerosols and updraft speed <b>2017</b> ,		1
316	Long-term study on coarse mode aerosols in the Amazon rain forest with the frequent intrusion of Saharan dust plumes <b>2017</b> ,		1
315	Severe Pollution in China Amplified by Atmospheric Moisture. <i>Scientific Reports</i> , <b>2017</b> , 7, 15760	4.9	122
314	Heterogeneous OH Oxidation, Shielding Effects, and Implications for the Atmospheric Fate of Terbutylazine and Other Pesticides. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13749-13754	10.3	18
313	Aerosol Health Effects from Molecular to Global Scales. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13545-13567	10.3	235
312	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> , <b>2017</b> , 98, 981-997	6.1	94
311	Sensitivities of Amazonian clouds to aerosols and updraft speed. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 10037-10050	6.8	28
310	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> , <b>2017</b> , 17, 11227-11245	6.8	55
309	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> , <b>2017</b> , 17, 14365-14392	6.8	27
308	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> , <b>2017</b> , 17, 9049-9066	6.8	10
307	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> , <b>2017</b> , 17, 11779-11801	6.8	47
306	Light-induced protein nitration and degradation with HONO emission. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11819-11833	6.8	15
305	Regional modelling of polycyclic aromatic hydrocarbons: WRF-Chem-PAH model development and East Asia case studies. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 12253-12267	6.8	2
304	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> , <b>2017</b> , 17, 14433-14453	6.8	35



303	Illustration of microphysical processes in Amazonian deep convective clouds in the gamma phase space: introduction and potential applications. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 14727-14746	6.8	8
302	Comparing parameterized versus measured microphysical properties of tropical convective cloud bases during the ACRIDICON-CHUVA campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 7365-7386	6.8	14
301	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> , <b>2017</b> , 17, 8021-8029	6.8	19
300	Tandem configuration of differential mobility and centrifugal particle mass analysers for investigating aerosol hygroscopic properties. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1269-1280	4	8
299	Black and brown carbon over central Amazonia: Long-term aerosol measurements at the ATTO site <b>2017</b> ,		3
298	Molecular Dynamics Simulation of the Surface Tension of Aqueous Sodium Chloride: from Dilute to Highly Supersaturated Solutions and Molten Salt <b>2017</b> ,		2
297	Perspectives on the Future of Ice Nucleation Research: Research Needs and Unanswered Questions Identified from Two International Workshops. <i>Atmosphere</i> , <b>2017</b> , 8, 138	2.7	43
296	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: Seasonal and diel variations and impact of anthropogenic emissions <b>2017</b> ,		1
295	Sea salt emission, transportation and influence on nitrate simulation: a case study in Europe <b>2016</b> ,		1
294	Ozone uptake on glassy, semi-solid and liquid organic matter and the role of reactive oxygen intermediates in atmospheric aerosol chemistry. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 12662-74	3.6	78
293	Metaproteomic analysis of atmospheric aerosol samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 6337-48	4.4	13
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62	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08)		4
61	Cloud droplet activation of mixed organic-sulfate particles produced by the photooxidation of isoprene		2
60	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		5
59	Global distribution of the effective aerosol hygroscopicity parameter for CCN activation		1
58	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) [Integrating aerosol research from nano to global scales		11
57	Size-resolved measurement of the mixing state of soot in the megacity Beijing, China: diurnal cycle, aging and parameterization		3
56	Global cloud condensation nuclei influenced by carbonaceous combustion aerosol		2
55	Biological aerosol particle concentrations and size distributions measured in pristine tropical rainforest air during AMAZE-08		3
54	Ice nuclei in marine air: bioparticles or dust?		2
53	Effects of atmospheric conditions on ice nucleation activity of <i>Pseudomonas</i> ;		6
52	Seasonal cycles of fluorescent biological aerosol particles in boreal and semi-arid forests of Finland and Colorado		4

51	High concentrations of biological aerosol particles and ice nuclei during and after rain	13
50	Size-resolved and integral measurements of cloud condensation nuclei (CCN) at the high-alpine site Jungfraujoch	
49	Fine-mode organic mass concentrations and sources in the Amazonian wet season (AMAZE-08)	16
48	Competition between water uptake and ice nucleation by glassy organic aerosol particles	4
47	Ice nucleation by water-soluble macromolecules	3
46	Ambient measurements of biological aerosol particles near Killarney, Ireland: a comparison between real-time fluorescence and microscopy techniques	5
45	Ice nucleation and its effect on the atmospheric transport of fungal spores from the classes <i>Agaricomycetes</i>, <i>Ustilaginomycetes</i>, and <i>Eurotiomycetes</i>	2
44	Aerosol and dynamic effects on the formation and evolution of pyro-clouds	1
43	Regional-scale simulations of fungal spore aerosols using an emission parameterization adapted to local measurements of fluorescent biological aerosol particles	6
42	The Amazon Tall Tower Observatory (ATTO) in the remote Amazon Basin: overview of first results from ecosystem ecology, meteorology, trace gas, and aerosol measurements	6
41	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5)	9
40	Compilation and evaluation of gas-phase diffusion coefficients of reactive trace gases in the atmosphere: volume 2. Organic compounds and Knudsen numbers for gas uptake calculations	1
39	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	10
38	Kinetic model framework for aerosol and cloud surface chemistry and gas-particle interactions: Part 2 Exemplary practical applications and numerical simulations	5
37	Contribution of fungi to primary biogenic aerosols in the atmosphere: active discharge of spores, carbohydrates, and inorganic ions by Asco- and Basidiomycota	15
36	Temperature and humidity dependence of secondary organic aerosol yield from the ozonolysis of $\beta$ -pinene	2
35	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	3
34	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	8

33	Rural continental aerosol properties and processes observed during the Hohenpeissenberg Aerosol Characterization Experiment (HAZE2002)	2
32	Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China [Part 1: Size-resolved measurements and implications for the modeling of aerosol particle hygroscopicity and CCN activity]	17
31	Introduction: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) [Integrating aerosol research from nano to global scales]	3
30	Aerosol optical properties in a rural environment near the mega-city Guangzhou, China: implications for regional air pollution and radiative forcing	1
29	Bacteria in the global atmosphere [Part 1: Review and synthesis of literature data for different ecosystems]	14
28	Bacteria in the global atmosphere [Part 2: Modelling of emissions and transport between different ecosystems]	9
27	Biomass burning aerosol emissions from vegetation fires: particle number and mass emission factors and size distributions	7
26	Fluorescent biological aerosol particle concentrations and size distributions measured with an ultraviolet aerodynamic particle sizer (UV-APS) in Central Europe	9
25	Coupling aerosol surface and bulk chemistry with a kinetic double layer model (K2-SUB): oxidation of oleic acid by ozone	4
24	Cloud condensation nuclei in pristine tropical rainforest air of Amazonia: size-resolved measurements and modeling of atmospheric aerosol composition and CCN activity	12
23	Amorphous and crystalline aerosol particles interacting with water vapor [Part 1: Microstructure, phase transitions, hygroscopic growth and kinetic limitations]	4
22	Aerosol- and updraft-limited regimes of cloud droplet formation: influence of particle number, size and hygroscopicity on the activation of cloud condensation nuclei (CCN)	4
21	Twin-plate ice nucleation assay (TINA) with infrared detection for high-throughput droplet freezing experiments with biological ice nuclei in laboratory and field samples	2
20	Multifactor colorimetric analysis on pH-indicator papers: an optimized approach for direct determination of ambient aerosol pH	2
19	Autofluorescence of atmospheric bioaerosols [Spectral fingerprints and taxonomic trends of native pollen]	3
18	Lifestyle dependent occurrence of airborne fungi	4
17	Estimating global carbon uptake by lichens and bryophytes with a process-based model	2
16	Ice Nucleation Activity in the Widespread Soil Fungus <i>Mortierella alpina</i>	7

15	Molecular genetics and diversity of primary biogenic aerosol particles in urban, rural, and high-alpine air		14
14	Microbiology and atmospheric processes: chemical interactions of Primary Biological Aerosols		15
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9	Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China [Part 2: Size-resolved aerosol chemical composition, diurnal cycles, and externally mixed CCN-inactive soot particles		2
8	Chemical ageing and transformation of diffusivity in semi-solid multi-component organic aerosol particles		1
7	3-D model simulations of dynamical and microphysical interactions in pyro-convective clouds under idealized conditions		1
6	Assessment of cloud supersaturation by aerosol particle and cloud condensation nuclei (CCN) measurements		1
5	EUREC <sup>4</sup> A		2
4	Supplementary material to "Occurrence and growth of sub-50 nm aerosol particles in the Amazonian boundary layer"		2
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