

Angela Buchholz

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,054
citations

430874

18
h-index

501196

28
g-index

37
all docs

37
docs citations

37
times ranked

1590
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Atmospheric Aging on Soot Particle Toxicity in Lung Cell Models at the Air–Liquid Interface: Differential Toxicological Impacts of Biogenic and Anthropogenic Secondary Organic Aerosols (SOAs). <i>Environmental Health Perspectives</i> , 2022, 130, 27003.	6.0	44
2	Exposure to naphthalene and β -pinene-derived secondary organic aerosol induced divergent changes in transcript levels of BEAS-2B cells. <i>Environment International</i> , 2022, 166, 107366.	10.0	18
3	On the calibration of FIGAERO-ToF-CIMS: importance and impact of calibrant delivery for the particle-phase calibration. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 355-367.	3.1	28
4	Ice nucleation on surrogates of boreal forest SOA particles: effect of water content and oxidative age. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11069-11078.	4.9	7
5	The importance of sesquiterpene oxidation products for secondary organic aerosol formation in a springtime hemiboreal forest. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11781-11800.	4.9	16
6	Evolution of volatility and composition in sesquiterpene-mixed and α -pinene secondary organic aerosol particles during isothermal evaporation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18283-18302.	4.9	6
7	Composition and volatility of secondary organic aerosol (SOA) formed from oxidation of real tree emissions compared to simplified volatile organic compound (VOC) systems. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5629-5644.	4.9	31
8	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. <i>Science Advances</i> , 2020, 6, eaay4945.	10.3	61
9	Comparison of dimension reduction techniques in the analysis of mass spectrometry data. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2995-3022.	3.1	11
10	Deconvolution of FIGAERO-CIMS thermal desorption profiles using positive matrix factorisation to identify chemical and physical processes during particle evaporation. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7693-7716.	4.9	28
11	Comparing secondary organic aerosol (SOA) volatility distributions derived from isothermal SOA particle evaporation data and FIGAERO-CIMS measurements. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10441-10458.	4.9	7
12	Secondary Organic Aerosol Formation from Healthy and Aphid-Stressed Scots Pine Emissions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1756-1772.	2.7	32
13	Insights into the O ₂ -dependent mechanisms controlling the evaporation of α -pinene secondary organic aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4061-4073.	4.9	23
14	Potential dual effect of anthropogenic emissions on the formation of biogenic secondary organic aerosol (BSOA). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15651-15671.	4.9	16
15	Effect of Decreased Temperature on the Evaporation of β -Pinene Secondary Organic Aerosol Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2775-2785.	2.7	15
16	Terpene Composition Complexity Controls Secondary Organic Aerosol Yields from Scots Pine Volatile Emissions. <i>Scientific Reports</i> , 2018, 8, 3053.	3.3	44
17	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018, 4, eaau5363.	10.3	164
18	Cloud droplet activation of black carbon particles coated with organic compounds of varying solubility. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12477-12489.	4.9	36

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19	Environmental conditions regulate the impact of plants on cloud formation. <i>Nature Communications</i> , 2017, 8, 14067.	12.8	62
20	Factors controlling the evaporation of secondary organic aerosol from α -pinene ozonolysis. <i>Geophysical Research Letters</i> , 2017, 44, 2562-2570.	4.0	95
21	Cloud condensation nuclei activity, droplet growth kinetics, and hygroscopicity of biogenic and anthropogenic secondary organic aerosol (SOA). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1105-1121.	4.9	43
22	Size-dependent hygroscopicity parameter (κ) and chemical composition of secondary organic cloud condensation nuclei. <i>Geophysical Research Letters</i> , 2015, 42, 10,920.	4.0	31
23	Hygroscopic growth and droplet activation of soot particles: uncoated, succinic or sulfuric acid coated. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4525-4537.	4.9	57
24	Aerosol mass spectrometric measurements of stable crystal hydrates of oxalates and inferred relative ionization efficiency of water. <i>Journal of Aerosol Science</i> , 2011, 42, 11-19.	3.8	24
25	Experimental study of the role of physicochemical surface processing on the IN ability of mineral dust particles. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11131-11144.	4.9	70
26	Corrigendum to "Experimental study of the role of physicochemical surface processing on the IN ability of mineral dust particles" published in <i>Atmos. Chem. Phys.</i> , 11, 11131-11144, 2011. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11919-11919.	4.9	4
27	The chemical and microphysical properties of secondary organic aerosols from Holm Oak emissions. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7253-7265.	4.9	55
28	Novel method of generation of $\text{Ca}(\text{HCO}_3)_2$ and CaCO_3 aerosols and first determination of hygroscopic and cloud condensation nuclei activation properties. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8601-8616.	4.9	22