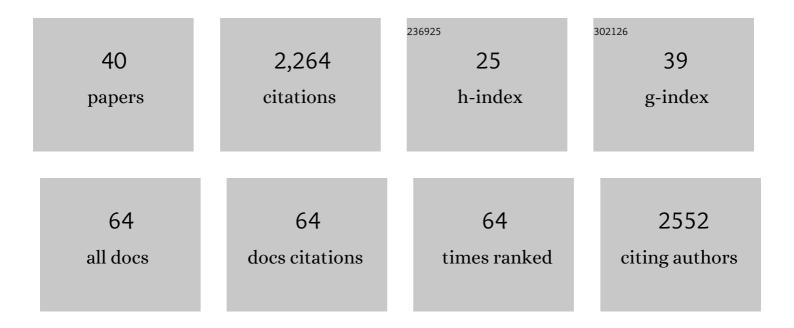
Thomas Berkemeier

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Global distribution of particle phase state in atmospheric secondary organic aerosols. Nature Communications, 2017, 8, 15002.	12.8	295
2	Chemical exposure-response relationship between air pollutants and reactive oxygen species in the human respiratory tract. Scientific Reports, 2016, 6, 32916.	3.3	228
3	Competition between water uptake and ice nucleation by glassy organic aerosol particles. Atmospheric Chemistry and Physics, 2014, 14, 12513-12531.	4.9	151
4	Hydroxyl radicals from secondary organic aerosol decomposition in water. Atmospheric Chemistry and Physics, 2016, 16, 1761-1771.	4.9	138
5	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
6	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
7	Direct imaging of changes in aerosol particle viscosity upon hydration and chemical aging. Chemical Science, 2016, 7, 1357-1367.	7.4	101
8	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
9	Quantitative Efficacy Classification of Ice Recrystallization Inhibition Agents. Crystal Growth and Design, 2014, 14, 4285-4294.	3.0	85
10	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
11	Secondary Organic Aerosol (SOA) from Nitrate Radical Oxidation of Monoterpenes: Effects of Temperature, Dilution, and Humidity on Aerosol Formation, Mixing, and Evaporation. Environmental Science & Technology, 2017, 51, 7831-7841.	10.0	71
12	Chemical kinetics of multiphase reactions between ozone and human skin lipids: Implications for indoor air quality and health effects. Indoor Air, 2017, 27, 816-828.	4.3	64
13	Protein Cross-Linking and Oligomerization through Dityrosine Formation upon Exposure to Ozone. Environmental Science & Technology, 2015, 49, 10859-10866.	10.0	55
14	Reactive oxygen species formed in aqueous mixtures of secondary organic aerosols and mineral dust influencing cloud chemistry and public health in the Anthropocene. Faraday Discussions, 2017, 200, 251-270.	3.2	51
15	Organic Nitrate Contribution to New Particle Formation and Growth in Secondary Organic Aerosols from α-Pinene Ozonolysis. Environmental Science & Technology, 2016, 50, 6334-6342.	10.0	47
16	Viscosity controls humidity dependence of N ₂ 0 ₅ uptake to citric acid aerosol. Atmospheric Chemistry and Physics, 2015, 15, 13615-13625.	4.9	46
17	Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. Environmental Science & Technology, 2019, 53, 12506-12518.	10.0	45
18	Shikimic acid ozonolysis kinetics of the transition from liquid aqueous solution to highly viscous glass. Physical Chemistry Chemical Physics, 2015, 17, 31101-31109.	2.8	41

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19	Condensed-phase biogenic–anthropogenic interactions with implications for cold cloud formation. Faraday Discussions, 2017, 200, 165-194.	3.2	40
20	Influence of particle viscosity on mass transfer and heterogeneous ozonolysis kinetics in aqueous–sucrose–maleic acid aerosol. Physical Chemistry Chemical Physics, 2018, 20, 15560-15573.	2.8	39
21	Hydroxyl Radical Production by Air Pollutants in Epithelial Lining Fluid Governed by Interconversion and Scavenging of Reactive Oxygen Species. Environmental Science & Technology, 2021, 55, 14069-14079.	10.0	39
22	Atmospheric protein chemistry influenced by anthropogenic air pollutants: nitration and oligomerization upon exposure to ozone and nitrogen dioxide. Faraday Discussions, 2017, 200, 413-427.	3.2	37
23	Discontinuities in hygroscopic growth below and above water saturation for laboratory surrogates of oligomers in organic atmospheric aerosols. Atmospheric Chemistry and Physics, 2016, 16, 12767-12792.	4.9	34
24	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. Atmospheric Chemistry and Physics, 2017, 17, 8021-8029.	4.9	33
25	Synthesis and characterization of natural and modified antifreeze glycopeptides: glycosylated foldamers. Amino Acids, 2011, 41, 719-732.	2.7	29
26	The effect of viscosity and diffusion on the HO ₂ uptake by sucrose and secondary organic aerosol particles. Atmospheric Chemistry and Physics, 2016, 16, 13035-13047.	4.9	29
27	Development and calibration of a novel sensor to quantify the water content of surface soils and biological soil crusts. Methods in Ecology and Evolution, 2016, 7, 14-22.	5.2	28
28	Ozonolysis of Oleic Acid Aerosol Revisited: Multiphase Chemical Kinetics and Reaction Mechanisms. ACS Earth and Space Chemistry, 2021, 5, 3313-3323.	2.7	25
29	Heterogeneous OH Oxidation, Shielding Effects, and Implications for the Atmospheric Fate of Terbuthylazine and Other Pesticides. Environmental Science & Technology, 2017, 51, 13749-13754.	10.0	24
30	Compositional evolution of particle-phase reaction products and water in the heterogeneous OH oxidation of model aqueous organic aerosols. Atmospheric Chemistry and Physics, 2017, 17, 14415-14431.	4.9	17
31	Modeling the Formation, Degradation, and Spatiotemporal Distribution of 2-Nitrofluoranthene and 2-Nitropyrene in the Global Atmosphere. Environmental Science & Technology, 2020, 54, 14224-14234.	10.0	17
32	Visualizing reaction and diffusion in xanthan gum aerosol particles exposed to ozone. Physical Chemistry Chemical Physics, 2019, 21, 20613-20627.	2.8	15
33	Oligomerization and Nitration of the Grass Pollen Allergen Phl p 5 by Ozone, Nitrogen Dioxide, and Peroxynitrite: Reaction Products, Kinetics, and Health Effects. International Journal of Molecular Sciences, 2021, 22, 7616.	4.1	14
34	Kinetic modeling of formation and evaporation of secondary organic aerosol from NO ₃ oxidation of pure and mixed monoterpenes. Atmospheric Chemistry and Physics, 2020, 20, 15513-15535.	4.9	14
35	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. Atmospheric Chemistry and Physics, 2021, 21, 6175-6198.	4.9	10
36	Aqueous-phase reactive species formed by fine particulate matter from remote forests and polluted urban air. Atmospheric Chemistry and Physics, 2021, 21, 10439-10455.	4.9	6

#	Article	IF	CITATIONS
37	Environmentally persistent free radicals in indoor particulate matter, dust, and on surfaces. Environmental Science Atmospheres, 2022, 2, 128-136.	2.4	3
38	Gas-Phase Reaction Kinetics of the Ortho and Ipso Adducts 1,2,4,5-Tetramethylbenzene–OH with O2. ACS Earth and Space Chemistry, 2021, 5, 2243-2251.	2.7	2
39	Emerging investigator series: deposited particles and human lung lining fluid are dynamic, chemically-complex reservoirs leading to thirdhand smoke emissions and exposure. Environmental Science Atmospheres, 2022, 2, 943-963.	2.4	1
40	Imaging Molecular Reaction and Diffusion in Organic Aerosol Particles. Microscopy and Microanalysis, 2018, 24, 496-497.	0.4	0