Karsten Baumann

List of Publications by Year
in descending order

32	2,678	218677	414414
papers	citations	26 h-index	32 g-index

55	55	55	3083
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 37-42.	7.1	496
2	Gaseous and Particulate Emissions from Prescribed Burning in Georgia. Environmental Science & Technology, 2005, 39, 9049-9056.	10.0	207
3	A large and ubiquitous source of atmospheric formic acid. Atmospheric Chemistry and Physics, 2015, 15, 6283-6304.	4.9	197
4	Real-Time Continuous Characterization of Secondary Organic Aerosol Derived from Isoprene Epoxydiols in Downtown Atlanta, Georgia, Using the Aerodyne Aerosol Chemical Speciation Monitor. Environmental Science & Technology, 2013, 47, 5686-5694.	10.0	186
5	Modeling the Current and Future Roles of Particulate Organic Nitrates in the Southeastern United States. Environmental Science & Technology, 2015, 49, 14195-14203.	10.0	147
6	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. Environmental Science & Technology, 2019, 53, 8682-8694.	10.0	111
7	Chemical climatology of the southeastern United States, 1999â€“2013. Atmospheric Chemistry and Physics, 2014, 14, 11893-11914.	4.9	108
8	Assessing the impact of anthropogenic pollution on isoprene-derived secondary organic aerosol formation in PM_{2.5} collected from the Birmingham, Alabama, ground site during the 2013 Southern OxidantÂand Aerosol Study. Atmospheric Chemistry and Physics, 2016, 16, 4897-4914.	4.9	105
9	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). Atmospheric Chemistry and Physics, 2016, 16, 11563-11580.	4.9	82
10	Seasonal characterization of submicron aerosol chemical composition and organic aerosol sources in the southeastern United States: Atlanta, Georgia,and Look Rock, Tennessee. Atmospheric Chemistry and Physics, 2016, 16, 5171-5189.	4.9	77
11	Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama. Atmospheric Chemistry and Physics, 2017, 17, 1343-1359.	4.9	75
12	Intercomparison of an Aerosol Chemical Speciation Monitor (ACSM) with ambient fine aerosol measurements in downtown Atlanta, Georgia. Atmospheric Measurement Techniques, 2014, 7, 1929-1941.	3.1	70
13	Ambient Gas-Particle Partitioning of Tracers for Biogenic Oxidation. Environmental Science & Technology, 2016, 50, 9952-9962.	10.0	69
14	Continuous gaseous and total ammonia measurements from the southeastern aerosol research and characterization (SEARCH) study. Atmospheric Environment, 2010, 44, 4994-5004.	4.1	62
15	Effects of temperature-dependent NO_{<i>x</i>} emissions on continental ozone production. Atmospheric Chemistry and Physics, 2018, 18, 2601-2614.	4.9	62
16	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 9349-9359.	4.9	59
17	Influence of crustal dust and sea spray supermicron particle concentrations and acidity on inorganic NO₃^{â”} aerosol during the 2013 Southern Oxidant and Aerosol Study. Atmospheric Chemistry and Physics, 2015, 15, 10669-10685.	4.9	56
18	Testing Atmospheric Oxidation in an Alabama Forest. Journals of the Atmospheric Sciences, 2016, 73, 4699-4710.	1.7	54

#	Article	IF	Citations
19	Simulation of Air Quality Impacts from Prescribed Fires on an Urban Area. Environmental Science & Technology, 2008, 42, 3676-3682.	10.0	53
20	Effects of emission reductions on organic aerosol in the southeastern United States. Atmospheric Chemistry and Physics, 2016, 16, 215-238.	4.9	44
21	Chemical characterization of secondary organic aerosol at a rural site in the southeastern US: insights from simultaneous high-resolution time-of-flight aerosol mass spectrometer (HR-ToF-AMS) and FIGAERO chemical ionization mass spectrometer (CIMS) measurements. Atmospheric Chemistry and Physics, 2020, 20, 8421-8440.	4.9	42
22	Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization. Journal of the Air and Waste Management Association, 2008, 58, 27-44.	1.9	41
23	Discrete measurements of reactive gases and fine particle mass and composition during the 1999 Atlanta Supersite Experiment. Journal of Geophysical Research, 2003, 108, SOS 4-1.	3.3	40
24	Comparison of integrated samplers for mass and composition during the 1999 Atlanta Supersites project. Journal of Geophysical Research, 2003, 108, .	3.3	36
25	Source Apportionment of Fine Particulate Matter in the Southeastern United States. Journal of the Air and Waste Management Association, 2007, 57, 1123-1135.	1.9	36
26	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. Environmental Science & Technology, 2021, 55, 6688-6699.	10.0	30
27	Understanding isoprene photooxidation using observations and modeling over a subtropical forest in the southeastern US. Atmospheric Chemistry and Physics, 2016, 16, 7725-7741.	4.9	26
28	Source apportionment of submicron organic aerosol collected from Atlanta, Georgia, during 2014â€“2015 using the aerosol chemical speciation monitor (ACSM). Atmospheric Environment, 2017, 167, 389-402.	4.1	26
29	Atmospheric Deposition and Annual Flux of Legacy Perfluoroalkyl Substances and Replacement Perfluoroalkyl Ether Carboxylic Acids in Wilmington, NC, USA. Environmental Science and Technology Letters, 2021, 8, 366-372.	8.7	26
30	Natural and Anthropogenically Influenced Isoprene Oxidation in Southeastern United States and Central Amazon. Environmental Science & Technology, 2020, 54, 5980-5991.	10.0	22
31	Per- and polyfluoroalkyl substances (PFASs) in airborne particulate matter (PM2.0) emitted during floor waxing: A pilot study. Atmospheric Environment, 2022, 268, 118845.	4.1	8
32	Evaluation of fire weather forecasts using PM2.5 sensitivity analysis. Atmospheric Environment, 2017, 148, 128-138.	4.1	7