

Abigail R Koss

List of Publications by Year in descending order

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35
papers

4,038
citations

147801

31
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

4108
citing authors

#	ARTICLE	IF	CITATIONS
1	Volatile chemical product emissions enhance ozone and modulate urban chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	103
2	Effects of temperature-dependent NO ₂ emissions on continental ozone production. Atmospheric Chemistry and Physics, 2018, 18, 2601-2614.	4.9	62
3	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D ₅) from the Application of Personal Care Products in Two North American Cities. Environmental Science & Technology, 2018, 52, 5610-5618.	10.0	72
4	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2038-2043.	7.1	186
5	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. Atmospheric Chemistry and Physics, 2018, 18, 3299-3319.	4.9	233
6	Intercomparison of OH and OH reactivity measurements in a high isoprene and low NO environment during the Southern Oxidant and Aerosol Study (SOAS). Atmospheric Environment, 2018, 174, 227-236.	4.1	22
7	Calculation of the sensitivity of proton-transfer-reaction mass spectrometry (PTR-MS) for organic trace gases using molecular properties. International Journal of Mass Spectrometry, 2017, 421, 71-94.	1.5	101
8	Proton-Transfer-Reaction Mass Spectrometry: Applications in Atmospheric Sciences. Chemical Reviews, 2017, 117, 13187-13229.	47.7	282
9	Emissions of volatile organic compounds (VOCs) from concentrated animal feeding operations (CAFOs): chemical compositions and separation of sources. Atmospheric Chemistry and Physics, 2017, 17, 4945-4956.	4.9	53
10	Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama. Atmospheric Chemistry and Physics, 2017, 17, 1343-1359.	4.9	75
11	Ethene, propene, butene and isoprene emissions from a ponderosa pine forest measured by relaxed eddy accumulation. Atmospheric Chemistry and Physics, 2017, 17, 13417-13438.	4.9	30
12	An improved, automated whole air sampler and gas chromatography mass spectrometry analysis system for volatile organic compounds in the atmosphere. Atmospheric Measurement Techniques, 2017, 10, 291-313.	3.1	54
13	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H ₃ O ⁺ -CIMS (PTR-ToF-MS). Atmospheric Measurement Techniques, 2017, 10, 2941-2968.	3.1	44
14	A high-resolution time-of-flight chemical ionization mass spectrometer utilizing hydronium ions (H ₃ O ⁺ -ToF-CIMS) for measurements of volatile organic compounds in the atmosphere. Atmospheric Measurement Techniques, 2016, 9, 2735-2752.	3.1	79
15	Evaluation of NO ₂ ⁺ reagent ion chemistry for online measurements of atmospheric volatile organic compounds. Atmospheric Measurement Techniques, 2016, 9, 2909-2925.	3.1	48
16	Isoprene suppression of new particle formation: Potential mechanisms and implications. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,621.	3.3	37
17	Testing Atmospheric Oxidation in an Alabama Forest. Journals of the Atmospheric Sciences, 2016, 73, 4699-4710.	1.7	54
18	Emissions of nitrogen-containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. Geophysical Research Letters, 2016, 43, 9903-9912.	4.0	79

#	ARTICLE	IF	CITATIONS
19	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 573-583.	4.9	24
20	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11563-11580.	4.9	82
21	The lifetime of nitrogen oxides in an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7623-7637.	4.9	75
22	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9349-9359.	4.9	59
23	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	2.8	179
24	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1516-1521.	7.1	269
25	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	4.9	154
26	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1975-1993.	4.9	57
27	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6283-6304.	4.9	197
28	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11257-11272.	4.9	75
29	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	4.9	185
30	Organic nitrate aerosol formation via NO ₃ + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13377-13392.	4.9	124
31	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5727-5741.	4.9	33
32	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 37-42.	7.1	496
33	PTR-QMS versus PTR-TOF comparison in a region with oil and natural gas extraction industry in the Uintah Basin in 2013. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 411-420.	3.1	29
34	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. <i>Nature</i> , 2014, 514, 351-354.	27.8	265
35	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12181-12194.	4.9	121