

Kenneth S Docherty

List of Publications by Year in descending order

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29
papers

6,507
citations

304368

22
h-index

476904

29
g-index

30
all docs

30
docs citations

30
times ranked

4318
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-Deployable, High-Resolution, Time-of-Flight Aerosol Mass Spectrometer. <i>Analytical Chemistry</i> , 2006, 78, 8281-8289.	3.2	1,968
2	O/C and OM/OC Ratios of Primary, Secondary, and Ambient Organic Aerosols with High-Resolution Time-of-Flight Aerosol Mass Spectrometry. <i>Environmental Science & Technology</i> , 2008, 42, 4478-4485.	4.6	1,524
3	Contributions of Organic Peroxides to Secondary Aerosol Formed from Reactions of Monoterpenes with O ₃ . <i>Environmental Science & Technology</i> , 2005, 39, 4049-4059.	4.6	396
4	Characterization of Primary Organic Aerosol Emissions from Meat Cooking, Trash Burning, and Motor Vehicles with High-Resolution Aerosol Mass Spectrometry and Comparison with Ambient and Chamber Observations. <i>Environmental Science & Technology</i> , 2009, 43, 2443-2449.	4.6	365
5	Isoprene Epoxydiols as Precursors to Secondary Organic Aerosol Formation: Acid-Catalyzed Reactive Uptake Studies with Authentic Compounds. <i>Environmental Science & Technology</i> , 2012, 46, 250-258.	4.6	363
6	On-line measurements of diesel nanoparticle composition and volatility. <i>Atmospheric Environment</i> , 2003, 37, 1199-1210.	1.9	343
7	Apportionment of Primary and Secondary Organic Aerosols in Southern California during the 2005 Study of Organic Aerosols in Riverside (SOAR-1). <i>Environmental Science & Technology</i> , 2008, 42, 7655-7662.	4.6	273
8	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2038-2043.	3.3	186
9	Real-Time Chemical Analysis of Organic Aerosols Using a Thermal Desorption Particle Beam Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2000, 33, 170-190.	1.5	126
10	Design and Operation of a Pressure-Controlled Inlet for Airborne Sampling with an Aerodynamic Aerosol Lens. <i>Aerosol Science and Technology</i> , 2008, 42, 465-471.	1.5	122
11	Observational Insights into Aerosol Formation from Isoprene. <i>Environmental Science & Technology</i> , 2013, 47, 11403-11413.	4.6	113
12	Effects of Stabilized Criegee Intermediate and OH Radical Scavengers on Aerosol Formation from Reactions of Î²-Pinene with O ₃ . <i>Aerosol Science and Technology</i> , 2003, 37, 877-891.	1.5	96
13	Reaction of Oleic Acid Particles with NO ₃ Radicals: Products, Mechanism, and Implications for Radical-Initiated Organic Aerosol Oxidation. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3567-3577.	1.1	93
14	Effect of Relative Humidity on the Chemical Composition of Secondary Organic Aerosol Formed from Reactions of 1-Tetradecene and O ₃ . <i>Environmental Science & Technology</i> , 2000, 34, 2116-2125.	4.6	78
15	Secondary organic aerosol formation from the oxidation of a series of sesquiterpenes: Î±-cedrene, Î²-caryophyllene, Î±-humulene and Î±-farnesene with O ₃ , OH and NO ₃ radicals. <i>Environmental Chemistry</i> , 2013, 10, 178.	0.7	75
16	Secondary organic aerosol characterisation at field sites across the United States during the spring-summer period. <i>International Journal of Environmental Analytical Chemistry</i> , 2013, 93, 1084-1103.	1.8	59
17	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model "Part 2: Assessing the influence of vapor wall losses. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3041-3059.	1.9	57
18	Composition and yields of secondary organic aerosol formed from OH radical-initiated reactions of linear alkenes in the presence of NO _x : Modeling and measurements. <i>Atmospheric Environment</i> , 2009, 43, 1349-1357.	1.9	50

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19	Collection Efficiency of the Aerosol Mass Spectrometer for Chamber-Generated Secondary Organic Aerosols. <i>Aerosol Science and Technology</i> , 2013, 47, 294-309.	1.5	50
20	Airborne and ground-based observations of ammonium-nitrate-dominated aerosols in a shallow boundary layer during intense winter pollution episodes in northern Utah. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17259-17276.	1.9	33
21	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model "Part 3: Assessing the influence of semi-volatile and intermediate-volatility organic compounds and NO _x on SOA formation". <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4561-4594.	1.9	29
22	Chemically Resolved Particle Fluxes Over Tropical and Temperate Forests. <i>Aerosol Science and Technology</i> , 2013, 47, 818-830.	1.5	27
23	Gas chromatography of trimethylsilyl derivatives of α -methoxyalkyl hydroperoxides formed in alkene-O ₃ reactions. <i>Journal of Chromatography A</i> , 2004, 1029, 205-215.	1.8	19
24	Trends in the oxidation and relative volatility of chamber-generated secondary organic aerosol. <i>Aerosol Science and Technology</i> , 2018, 52, 992-1004.	1.5	16
25	Predicting Thermal Behavior of Secondary Organic Aerosols. <i>Environmental Science & Technology</i> , 2017, 51, 9911-9919.	4.6	12
26	Organic and inorganic decomposition products from the thermal desorption of atmospheric particles. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1569-1586.	1.2	11
27	A technique for rapid source apportionment applied to ambient organic aerosol measurements from a thermal desorption aerosol gas chromatograph (TAG). <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5637-5653.	1.2	9
28	Effect of Vaporizer Temperature on Ambient Non-Refractory Submicron Aerosol Composition and Mass Spectra Measured by the Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2015, 49, 485-494.	1.5	8
29	Relative contributions of selected multigeneration products to chamber SOA formed from photooxidation of a range (C ₁₀ -C ₁₇) of n-alkanes under high NO conditions. <i>Atmospheric Environment</i> , 2021, 244, 117976.	1.9	6