

Kelley Barsanti

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,295
citations

172457

29
h-index

168389

53
g-index

99
all docs

99
docs citations

99
times ranked

3199
citing authors

#	ARTICLE	IF	CITATIONS
1	Secondary organic aerosol formation from camphene oxidation: measurements and modeling. Atmospheric Chemistry and Physics, 2022, 22, 3131-3147.	4.9	5
2	Development and application of a supervised pattern recognition algorithm for identification of fuel-specific emissions profiles. Atmospheric Measurement Techniques, 2022, 15, 2591-2606.	3.1	2
3	The influence of terpenes on the release of volatile organic compounds and active ingredients to cannabis vaping aerosols. RSC Advances, 2021, 11, 11714-11723.	3.6	8
4	Quantifying Atmospheric Parameter Ranges for Ambient Secondary Organic Aerosol Formation. ACS Earth and Space Chemistry, 2021, 5, 2380-2397.	2.7	20
5	Using GECKO-A to derive mechanistic understanding of secondary organic aerosol formation from the ubiquitous but understudied camphene. Atmospheric Chemistry and Physics, 2021, 21, 11467-11487.	4.9	3
6	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. Environmental Science & Technology, 2021, 55, 10280-10290.	10.0	31
7	A predictive model for salt nanoparticle formation using heterodimer stability calculations. Atmospheric Chemistry and Physics, 2021, 21, 11637-11654.	4.9	14
8	Observations of Volatile Organic Compounds in the Los Angeles Basin during COVID-19. ACS Earth and Space Chemistry, 2021, 5, 3045-3055.	2.7	6
9	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. Atmospheric Chemistry and Physics, 2021, 21, 16293-16317.	4.9	34
10	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	42
11	Evaluating the relationships between aromatic and ethanol levels in gasoline on secondary aerosol formation from a gasoline direct injection vehicle. Science of the Total Environment, 2020, 737, 140333.	8.0	12
12	Development and Evaluation of a Detailed Mechanism for Gas-Phase Atmospheric Reactions of Furans. ACS Earth and Space Chemistry, 2020, 4, 1254-1268.	2.7	10
13	Ab initio metadynamics calculations of dimethylamine for probing pK_b variations in bulk vs. surface environments. Physical Chemistry Chemical Physics, 2020, 22, 26265-26277.	2.8	17
14	Highly Speciated Measurements of Terpenoids Emitted from Laboratory and Mixed-Conifer Forest Prescribed Fires. Environmental Science & Technology, 2019, 53, 9418-9428.	10.0	31
15	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. Environmental Science & Technology, 2019, 53, 2529-2538.	10.0	68
16	An Experimental and Modeling Study of Nanoparticle Formation and Growth from Dimethylamine and Nitric Acid. Journal of Physical Chemistry A, 2019, 123, 5640-5648.	2.5	29
17	Production of Secondary Organic Aerosol During Aging of Biomass Burning Smoke From Fresh Fuels and Its Relationship to VOC Precursors. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3583-3606.	3.3	67
18	Viscosities, diffusion coefficients, and mixing times of intrinsic fluorescent organic molecules in brown limonene secondary organic aerosol and tests of the Stokes-Einstein equation. Atmospheric Chemistry and Physics, 2019, 19, 1491-1503.	4.9	24

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19	Speciated and total emission factors of particulate organics from burning western US wildland fuels and their dependence on combustion efficiency. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1013-1026.	4.9	80
20	Sources of variance in BC mass measurements from a small marine engine: Influence of the instruments, fuels and loads. <i>Atmospheric Environment</i> , 2018, 182, 128-137.	4.1	20
21	E-Cigarette Airflow Rate Modulates Toxicant Profiles and Can Lead to Concerning Levels of Solvent Consumption. <i>ACS Omega</i> , 2018, 3, 30-36.	3.5	42
22	Measurements of I/SVOCs in biomass-burning smoke using solid-phase extraction disks and two-dimensional gas chromatography. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17801-17817.	4.9	50
23	Detailed Characterization of Organic Carbon from Fire: Capitalizing on Analytical Advances To Improve Atmospheric Models. <i>ACS Symposium Series</i> , 2018, , 349-361.	0.5	0
24	Size resolved chemical composition of nanoparticles from reactions of sulfuric acid with ammonia and dimethylamine. <i>Aerosol Science and Technology</i> , 2018, 52, 1120-1133.	3.1	26
25	High Hydroquinone Emissions from Burning Manzanita. <i>Environmental Science and Technology Letters</i> , 2018, 5, 309-314.	8.7	7
26	Coupling hydrothermal liquefaction and membrane distillation to treat anaerobic digestate from food and dairy farm waste. <i>Bioresource Technology</i> , 2018, 267, 408-415.	9.6	43
27	Formation of Low-Volatility Organic Compounds in the Atmosphere: Recent Advancements and Insights. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1503-1511.	4.6	78
28	Mixing times of organic molecules within secondary organic aerosol particles: a global planetary boundary layer perspective. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13037-13048.	4.9	35
29	Multi-instrument comparison and compilation of non-methane organic gas emissions from biomass burning and implications for smoke-derived secondary organic aerosol precursors. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1471-1489.	4.9	119
30	Secondary organic aerosol formation in biomass-burning plumes: theoretical analysis of lab studies and ambient plumes. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5459-5475.	4.9	61
31	Multiple new-particle growth pathways observed at the US DOE Southern Great Plains field site. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9321-9348.	4.9	35
32	Water uptake by organic aerosol and its influence on gas/particle partitioning of secondary organic aerosol in the United States. <i>Atmospheric Environment</i> , 2016, 129, 142-154.	4.1	39
33	Identification and quantification of gaseous organic compounds emitted from biomass burning using two-dimensional gas chromatography-time-of-flight mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1865-1899.	4.9	154
34	Reducing the negative human-health impacts of bioenergy crop emissions through region-specific crop selection. <i>Environmental Research Letters</i> , 2015, 10, 054004.	5.2	3
35	Saturation Vapor Pressures and Transition Enthalpies of Low-Volatility Organic Molecules of Atmospheric Relevance: From Dicarboxylic Acids to Complex Mixtures. <i>Chemical Reviews</i> , 2015, 115, 4115-4156.	47.7	196
36	Molecular view modeling of atmospheric organic particulate matter: Incorporating molecular structure and co-condensation of water. <i>Atmospheric Environment</i> , 2015, 122, 400-408.	4.1	27

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37	Modeling regional secondary organic aerosol using the Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2015, 102, 52-61.	4.1	70
38	Secondary Organic Aerosol Formation and Organic Nitrate Yield from NO ₃ Oxidation of Biogenic Hydrocarbons. <i>Environmental Science & Technology</i> , 2014, 48, 11944-11953.	10.0	178
39	Gas/particle partitioning of n-alkanes, PAHs and oxygenated PAHs in urban Denver. <i>Atmospheric Environment</i> , 2014, 95, 355-362.	4.1	44
40	Impact of Gas/Particle Partitioning of Semivolatile Organic Compounds on Source Apportionment with Positive Matrix Factorization. <i>Environmental Science & Technology</i> , 2014, 48, 9053-9060.	10.0	28
41	Gas/Particle Partitioning of 2-Methyltetrols and Levoglucosan at an Urban Site in Denver. <i>Environmental Science & Technology</i> , 2014, 48, 2835-2842.	10.0	38
42	Effect of salt formation on condensation of organic compounds on atmospheric nanoparticles. , 2013, , .		0
43	Improving the representation of secondary organic aerosol (SOA) in the MOZART-4 global chemical transport model. <i>Geoscientific Model Development</i> , 2013, 6, 961-980.	3.6	11
44	Analyzing experimental data and model parameters: implications for predictions of SOA using chemical transport models. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12073-12088.	4.9	38
45	Model for acid-base chemistry in nanoparticle growth (MABNAG). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12507-12524.	4.9	53
46	Positive matrix factorization of PM _{2.5} “ eliminating the effects of gas/particle partitioning of semivolatile organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7381-7393.	4.9	41
47	Volatilizable Biogenic Organic Compounds (VBOCs) with two dimensional Gas Chromatography-Time of Flight Mass Spectrometry (GC & b> GC-TOFMS): sampling methods, VBOC complexity, and chromatographic retention data. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 345-361.	3.1	31
48	Identification of the biogenic compounds responsible for size-dependent nanoparticle growth. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	61
49	Considering the Air Quality Impacts of Bioenergy Crop Production: A Case Study Involving Arundo donax. <i>Environmental Science & Technology</i> , 2012, 46, 9777-9784.	10.0	14
50	Application of the np+mP modeling approach for simulating secondary organic particulate matter formation from l-pinene oxidation. <i>Atmospheric Environment</i> , 2011, 45, 6812-6819.	4.1	20
51	Observations of aminium salts in atmospheric nanoparticles and possible climatic implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6634-6639.	7.1	415
52	The carbon number-polarity grid: A means to manage the complexity of the mix of organic compounds when modeling atmospheric organic particulate matter. <i>Atmospheric Environment</i> , 2009, 43, 2829-2835.	4.1	100
53	The potential contribution of organic salts to new particle growth. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2949-2957.	4.9	163
54	New particle formation in the Front Range of the Colorado Rocky Mountains. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1577-1590.	4.9	83

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55	Tobacco smoke particulate matter chemistry by NMR. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 167-170.	1.9	18
56	Thermodynamics of the formation of atmospheric organic particulate matter by accretion reactionsâ€”Part 3: Carboxylic and dicarboxylic acids. <i>Atmospheric Environment</i> , 2006, 40, 6676-6686.	4.1	122
57	Thermodynamics of the formation of atmospheric organic particulate matter by accretion reactionsâ€”2. Dialdehydes, methylglyoxal, and diketones. <i>Atmospheric Environment</i> , 2005, 39, 6597-6607.	4.1	105
58	Comment on â€œSemiempirical Model for Organic Aerosol Growth by Acid-Catalyzed Heterogeneous Reactions of Carbonylsâ€• <i>Environmental Science & Technology</i> , 2005, 39, 8108-8109.	10.0	1
59	Thermodynamics of the formation of atmospheric organic particulate matter by accretion reactionsâ€”Part 1: aldehydes and ketones. <i>Atmospheric Environment</i> , 2004, 38, 4371-4382.	4.1	166
60	Fraction of Free-Base Nicotine in Fresh Smoke Particulate Matter from the Eclipse â€œCigaretteâ€• by 1H NMR Spectroscopy. <i>Chemical Research in Toxicology</i> , 2003, 16, 23-27.	3.3	21