

Michael Lewandowski

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

5,532
citations

136950

32
h-index

149698

56
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62
all docs

62
docs citations

62
times ranked

3343
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytotoxicity and oxidative stress induced by atmospheric mono-nitrophenols in human lung cells. <i>Environmental Pollution</i> , 2022, 301, 119010.	7.5	6
2	Relative contributions of selected multigeneration products to chamber SOA formed from photooxidation of a range (C10–C17) of n-alkanes under high NO conditions. <i>Atmospheric Environment</i> , 2021, 244, 117976.	4.1	6
3	Data mining approaches to understanding the formation of secondary organic aerosol. <i>Atmospheric Environment</i> , 2021, 252, 118345.	4.1	0
4	Rapid production of highly oxidized molecules in isoprene aerosol via peroxy and alkoxy radical isomerization pathways in low and high NOx environments: Combined laboratory, computational and field studies. <i>Science of the Total Environment</i> , 2021, 775, 145592.	8.0	11
5	Quantifying wintertime O3 and NOx formation with relevance vector machines. <i>Atmospheric Environment</i> , 2021, 259, 118538.	4.1	5
6	Quantifying wintertime O and NO formation with relevance vector machines. <i>Atmospheric Environment</i> , 2021, 259, 1-118538.	4.1	0
7	Secondary organic aerosols from aromatic hydrocarbons and their contribution to fine particulate matter in Atlanta, Georgia. <i>Atmospheric Environment</i> , 2020, 223, 117227.	4.1	34
8	Time series analysis of wintertime O3 and NOx formation using vector autoregressions. <i>Atmospheric Environment</i> , 2019, 218, 116988.	4.1	9
9	Organic Hydroxy Acids as Highly Oxygenated Molecular (HOM) Tracers for Aged Isoprene Aerosol. <i>Environmental Science & Technology</i> , 2019, 53, 14516-14527.	10.0	17
10	Light absorption of organic carbon and its sources at a southeastern U.S. location in summer. <i>Environmental Pollution</i> , 2019, 244, 38-46.	7.5	48
11	Photochemical Conversion of Surrogate Emissions for Use in Toxicological Studies: Role of Particulate- and Gas-Phase Products. <i>Environmental Science & Technology</i> , 2018, 52, 3037-3044.	10.0	6
12	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.	7.1	186
13	Evaluation of an Air Quality Health Index for Predicting the Mutagenicity of Simulated Atmospheres. <i>Environmental Science & Technology</i> , 2018, 52, 3045-3053.	10.0	11
14	Mutagenic atmospheres resulting from the photooxidation of aromatic hydrocarbon and NOx mixtures. <i>Atmospheric Environment</i> , 2018, 178, 164-172.	4.1	16
15	Chemical composition of isoprene SOA under acidic and non-acidic conditions: effect of relative humidity. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 18101-18121.	4.9	33
16	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	53
17	Characterization of aerosol nitroaromatic compounds: Validation of an experimental method. <i>Journal of Mass Spectrometry</i> , 2018, 53, 680-692.	1.6	8
18	Trends in the oxidation and relative volatility of chamber-generated secondary organic aerosol. <i>Aerosol Science and Technology</i> , 2018, 52, 992-1004.	3.1	16

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19	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	22
20	Ozonolysis of β -farnesene mixture: Analysis of gas-phase and particulate reaction products. <i>Atmospheric Environment</i> , 2017, 169, 175-192.	4.1	8
21	Light Absorption of Secondary Organic Aerosol: Composition and Contribution of Nitroaromatic Compounds. <i>Environmental Science & Technology</i> , 2017, 51, 11607-11616.	10.0	132
22	Predicting Thermal Behavior of Secondary Organic Aerosols. <i>Environmental Science & Technology</i> , 2017, 51, 9911-9919.	10.0	12
23	Constraints on primary and secondary particulate carbon sources using chemical tracer and 14 C methods during CalNex-Bakersfield. <i>Atmospheric Environment</i> , 2017, 166, 204-214.	4.1	5
24	Characterization of polar organosulfates in secondary organic aerosol from the unsaturated aldehydes 2-pentenal, 2-hexenal, and 3-hexenal. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7135-7148.	4.9	41
25	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.	3.1	8
26	Qualitative and quantitative assessment of unresolved complex mixture in PM _{2.5} of Bakersfield, CA. <i>Atmospheric Environment</i> , 2014, 98, 368-375.	4.1	6
27	Characterization of Polar Organosulfates in Secondary Organic Aerosol from the Green Leaf Volatile 3-Hexenal. <i>Environmental Science & Technology</i> , 2014, 48, 12671-12678.	10.0	45
28	2-Hydroxyterpenylic Acid: An Oxygenated Marker Compound for β -Pinene Secondary Organic Aerosol in Ambient Fine Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 4901-4908.	10.0	32
29	Constraining carbonaceous aerosol sources in a receptor model by including 14C data with redox species, organic tracers, and elemental/organic carbon measurements. <i>Atmospheric Environment</i> , 2013, 80, 216-225.	4.1	11
30	Epoxide Pathways Improve Model Predictions of Isoprene Markers and Reveal Key Role of Acidity in Aerosol Formation. <i>Environmental Science & Technology</i> , 2013, 47, 11056-11064.	10.0	222
31	Secondary organic aerosol formation from the oxidation of a series of sesquiterpenes: β -cedrene, β -caryophyllene, β -humulene and β -farnesene with O ₃ , OH and NO ₃ radicals. <i>Environmental Chemistry</i> , 2013, 10, 178.	1.5	75
32	Collection Efficiency of the Aerosol Mass Spectrometer for Chamber-Generated Secondary Organic Aerosols. <i>Aerosol Science and Technology</i> , 2013, 47, 294-309.	3.1	50
33	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.	3.3	59
34	Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. <i>Environmental Science & Technology</i> , 2012, 46, 9437-9446.	10.0	128
35	Contributions of Biogenic and Anthropogenic Hydrocarbons to Secondary Organic Aerosol during 2006 in Research Triangle Park, NC. <i>Aerosol and Air Quality Research</i> , 2011, 11, 99-108.	2.1	50
36	Formation of organic tracers for isoprene SOA under acidic conditions. <i>Atmospheric Environment</i> , 2010, 44, 1798-1805.	4.1	37

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37	A Review of Selected Engineered Nanoparticles in the Atmosphere: Sources, Transformations, and Techniques for Sampling and Analysis. <i>International Journal of Occupational and Environmental Health</i> , 2010, 16, 488-507.	1.2	30
38	Contribution of Primary and Secondary Sources to Organic Aerosol and PM _{2.5} at SEARCH Network Sites. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 1388-1399.	1.9	70
39	A Review of Selected Engineered Nanoparticles in the Atmosphere: Sources, Transformations, and Techniques for Sampling and Analysis. <i>International Journal of Occupational and Environmental Health</i> , 2010, 16, 488-507.	1.2	8
40	Source apportionment of primary and secondary organic aerosols using positive matrix factorization (PMF) of molecular markers. <i>Atmospheric Environment</i> , 2009, 43, 5567-5574.	4.1	97
41	Influence of Aerosol Acidity on the Formation of Secondary Organic Aerosol from Biogenic Precursor Hydrocarbons. <i>Environmental Science & Technology</i> , 2009, 43, 7742-7747.	10.0	83
42	Characterization of organosulfates from the photooxidation of isoprene and unsaturated fatty acids in ambient aerosol using liquid chromatography/electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 371-382.	1.6	222
43	Formation of secondary organic aerosol from irradiated α -pinene/toluene/NO _x mixtures and the effect of isoprene and sulfur dioxide. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	108
44	Primary and Secondary Contributions to Ambient PM in the Midwestern United States. <i>Environmental Science & Technology</i> , 2008, 42, 3303-3309.	10.0	140
45	Organosulfate Formation in Biogenic Secondary Organic Aerosol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8345-8378.	2.5	594
46	Ozone-isoprene reaction: Re-examination of the formation of secondary organic aerosol. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	105
47	Investigation of a Systematic Offset in the Measurement of Organic Carbon with a Semicontinuous Analyzer. <i>Journal of the Air and Waste Management Association</i> , 2007, 57, 596-599.	1.9	13
48	Effect of Acidity on Secondary Organic Aerosol Formation from Isoprene. <i>Environmental Science & Technology</i> , 2007, 41, 5363-5369.	10.0	457
49	Hydroxycarboxylic Acids: Markers for Secondary Organic Aerosol from the Photooxidation of α -Pinene. <i>Environmental Science & Technology</i> , 2007, 41, 1628-1634.	10.0	226
50	Contributions of Toluene and α -Pinene to SOA Formed in an Irradiated Toluene/ α -Pinene/NO _x / Air Mixture: A Comparison of Results Using ¹⁴ C Content and SOA Organic Tracer Methods. <i>Environmental Science & Technology</i> , 2007, 41, 3972-3976.	10.0	75
51	Evidence for Organosulfates in Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2007, 41, 517-527.	10.0	591
52	β -caryophyllinic acid: An atmospheric tracer for β -caryophyllene secondary organic aerosol. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	145
53	ϵ -methyl- γ -butanetricarboxylic acid: An atmospheric tracer for terpene secondary organic aerosol. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	268
54	Composition of PM _{2.5} during the summer of 2003 in Research Triangle Park, North Carolina. <i>Atmospheric Environment</i> , 2007, 41, 4073-4083.	4.1	91

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55	Estimates of the contributions of biogenic and anthropogenic hydrocarbons to secondary organic aerosol at a southeastern US location. <i>Atmospheric Environment</i> , 2007, 41, 8288-8300.	4.1	459
56	Thermal properties of secondary organic aerosols. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	76
57	Secondary Organic Carbon and Aerosol Yields from the Irradiations of Isoprene and α -Pinene in the Presence of NO _x and SO ₂ . <i>Environmental Science & Technology</i> , 2006, 40, 3807-3812.	10.0	172
58	Analysis of Secondary Organic Aerosol Compounds from the Photooxidation of d-Limonene in the Presence of NO _x and their Detection in Ambient PM _{2.5} . <i>Environmental Science & Technology</i> , 2006, 40, 3819-3828.	10.0	91
59	Photocatalytic Oxidation of Gas-Phase Aromatic Contaminants. , 2003, , .		2
60	Effects of TiO ₂ Pretreatments on the Photocatalytic Oxidation of Gas-Phase Aromatic Contaminants. <i>Journal of Advanced Oxidation Technologies</i> , 2002, 5, .	0.5	0