

John Liggio

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,127
citations

430754

18
h-index

454834

30
g-index

33
all docs

33
docs citations

33
times ranked

1478
citing authors

#	ARTICLE	IF	CITATIONS
1	Oil sands operations as a large source of secondary organic aerosols. <i>Nature</i> , 2016, 534, 91-94.	13.7	136
2	Heterogeneous OH Initiated Oxidation: A Possible Explanation for the Persistence of Organophosphate Flame Retardants in Air. <i>Environmental Science & Technology</i> , 2014, 48, 1041-1048.	4.6	102
3	Are Emissions of Black Carbon from Gasoline Vehicles Underestimated? Insights from Near and On-Road Measurements. <i>Environmental Science & Technology</i> , 2012, 46, 4819-4828.	4.6	91
4	Secondary formation of nitrated phenols: insights from observations during the Uintah Basin Winter Ozone Study (UBWOS) 2014. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2139-2153.	1.9	85
5	Uncovering global-scale risks from commercial chemicals in air. <i>Nature</i> , 2021, 600, 456-461.	13.7	83
6	Differences between measured and reported volatile organic compound emissions from oil sands facilities in Alberta, Canada. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3756-E3765.	3.3	75
7	Measurements of Gas phase Acids in Diesel Exhaust: A Relevant Source of HNCO?. <i>Environmental Science & Technology</i> , 2013, 47, 7663-7671.	4.6	59
8	Emissions of hydrogen cyanide from on-road gasoline and diesel vehicles. <i>Atmospheric Environment</i> , 2016, 131, 185-195.	1.9	47
9	Measured Canadian oil sands CO ₂ emissions are higher than estimates made using internationally recommended methods. <i>Nature Communications</i> , 2019, 10, 1863.	5.8	46
10	Atmospheric OH Oxidation Chemistry of Particulate Liquid Crystal Monomers: An Emerging Persistent Organic Pollutant in Air. <i>Environmental Science and Technology Letters</i> , 2020, 7, 646-652.	3.9	43
11	Chemical and Toxicological Evolution of Carbon Nanotubes During Atmospherically Relevant Aging Processes. <i>Environmental Science & Technology</i> , 2015, 49, 2806-2814.	4.6	37
12	Understanding the primary emissions and secondary formation of gaseous organic acids in the oil sands region of Alberta, Canada. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8411-8427.	1.9	33
13	Secondary organic aerosol formation from α -pinene, alkanes, and oil-sands-related precursors in a new oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9715-9731.	1.9	29
14	Decreasing effect and mechanism of FeSO ₄ seed particles on secondary organic aerosol in α -pinene photooxidation. <i>Environmental Pollution</i> , 2014, 193, 88-93.	3.7	27
15	Principal component analysis of summertime ground site measurements in the Athabasca oil sands with a focus on analytically unresolved intermediate-volatility organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17819-17841.	1.9	26
16	Experimental Study of OH-Initiated Heterogeneous Oxidation of Organophosphate Flame Retardants: Kinetics, Mechanism, and Toxicity. <i>Environmental Science & Technology</i> , 2019, 53, 14398-14408.	4.6	25
17	Elucidating real-world vehicle emission factors from mobile measurements over a large metropolitan region: a focus on isocyanic acid, hydrogen cyanide, and black carbon. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16979-17001.	1.9	24
18	Understanding the Impact of Relative Humidity and Coexisting Soluble Iron on the OH-Initiated Heterogeneous Oxidation of Organophosphate Flame Retardants. <i>Environmental Science & Technology</i> , 2019, 53, 6794-6803.	4.6	21

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19	A large contribution of anthropogenic organo-nitrates to secondary organic aerosol in the Alberta oil sands. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12209-12219.	1.9	18
20	Understanding the Impact of High-NO _x Conditions on the Formation of Secondary Organic Aerosol in the Photooxidation of Oil Sand-Related Precursors. <i>Environmental Science & Technology</i> , 2019, 53, 14420-14429.	4.6	18
21	A decadal synthesis of atmospheric emissions, ambient air quality, and deposition in the oil sands region. <i>Integrated Environmental Assessment and Management</i> , 2022, 18, 333-360.	1.6	17
22	Influence of metal-mediated aerosol-phase oxidation on secondary organic aerosol formation from the ozonolysis and OH-oxidation of α -pinene. <i>Scientific Reports</i> , 2017, 7, 40311.	1.6	15
23	Oxidative and Toxicological Evolution of Engineered Nanoparticles with Atmospherically Relevant Coatings. <i>Environmental Science & Technology</i> , 2019, 53, 3058-3066.	4.6	14
24	Quantifying the Primary Emissions and Photochemical Formation of Isocyanic Acid Downwind of Oil Sands Operations. <i>Environmental Science & Technology</i> , 2017, 51, 14462-14471.	4.6	14
25	Understanding the Key Role of Atmospheric Processing in Determining the Oxidative Potential of Airborne Engineered Nanoparticles. <i>Environmental Science and Technology Letters</i> , 2020, 7, 7-13.	3.9	12
26	Top-Down Determination of Black Carbon Emissions from Oil Sand Facilities in Alberta, Canada Using Aircraft Measurements. <i>Environmental Science & Technology</i> , 2020, 54, 412-418.	4.6	7
27	New methodology shows short atmospheric lifetimes of oxidized sulfur and nitrogen due to dry deposition. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8377-8392.	1.9	7
28	Evaluating the impact of storage-and-release on aircraft-based mass-balance methodology using a regional air-quality model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15461-15491.	1.9	7
29	Airborne and ground-based measurements of aerosol optical depth of freshly emitted anthropogenic plumes in the Athabasca Oil Sands Region. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10671-10687.	1.9	3
30	Evolution of Atmospheric Total Organic Carbon from Petrochemical Mixtures. <i>Environmental Science & Technology</i> , 2021, 55, 12841-12851.	4.6	3
31	Fugitive Emissions of Volatile Organic Compounds from a Tailings Pond in the Oil Sands Region of Alberta. <i>Environmental Science & Technology</i> , 2021, 55, 12831-12840.	4.6	2
32	Evaluating SOA formation from different sources of semi- and intermediate-volatility organic compounds from the Athabasca Oil Sands. <i>Environmental Science Atmospheres</i> , 0, , .	0.9	1