

Pascale Lakey

List of Publications by Year in descending order

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46
papers

2,175
citations

318942

23
h-index

274796

44
g-index

47
all docs

47
docs citations

47
times ranked

3138
citing authors

#	ARTICLE	IF	CITATIONS
1	Iodine emission from the reactive uptake of ozone to simulated seawater. <i>Environmental Sciences: Processes and Impacts</i> , 2023, 25, 254-263.	1.7	2
2	Iron-Facilitated Organic Radical Formation from Secondary Organic Aerosols in Surrogate Lung Fluid. <i>Environmental Science & Technology</i> , 2022, 56, 7234-7243.	4.6	20
3	Volatile products generated from reactions between ozone and human skin lipids: A modelling estimation. <i>Building and Environment</i> , 2022, 217, 109068.	3.0	7
4	Predicting Spatial Variations in Multiple Measures of PM _{2.5} Oxidative Potential and Magnetite Nanoparticles in Toronto and Montreal, Canada. <i>Environmental Science & Technology</i> , 2022, 56, 7256-7265.	4.6	4
5	Multiphase Ozonolysis of Oleic Acid-Based Lipids: Quantitation of Major Products and Kinetic Multilayer Modeling. <i>Environmental Science & Technology</i> , 2022, 56, 7716-7728.	4.6	14
6	A Population-Based Cohort Study of Respiratory Disease and Long-Term Exposure to Iron and Copper in Fine Particulate Air Pollution and Their Combined Impact on Reactive Oxygen Species Generation in Human Lungs. <i>Environmental Science & Technology</i> , 2021, 55, 3807-3818.	4.6	39
7	Within-City Variation in Reactive Oxygen Species from Fine Particle Air Pollution and COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 168-177.	2.5	17
8	Kinetic multi-layer model of film formation, growth, and chemistry (KM-FILM): Boundary layer processes, multi-layer adsorption, bulk diffusion, and heterogeneous reactions. <i>Indoor Air</i> , 2021, 31, 2070-2083.	2.0	14
9	Spatial and temporal scales of variability for indoor air constituents. <i>Communications Chemistry</i> , 2021, 4, .	2.0	26
10	Behavior of carbon monoxide, nitrogen oxides, and ozone in a vehicle cabin with a passenger. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 302-310.	1.7	2
11	Superoxide Formation from Aqueous Reactions of Biogenic Secondary Organic Aerosols. <i>Environmental Science & Technology</i> , 2021, 55, 260-270.	4.6	35
12	Long-term exposure to iron and copper in fine particulate air pollution and their combined impact on reactive oxygen species concentration in lung fluid: a population-based cohort study of cardiovascular disease incidence and mortality in Toronto, Canada. <i>International Journal of Epidemiology</i> , 2021, 50, 589-601.	0.9	25
13	Hydroxyl Radical Production by Air Pollutants in Epithelial Lining Fluid Governed by Interconversion and Scavenging of Reactive Oxygen Species. <i>Environmental Science & Technology</i> , 2021, 55, 14069-14079.	4.6	39
14	Unexpectedly High Indoor HONO Concentrations Associated with Photochemical NO ₂ Transformation on Glass Windows. <i>Environmental Science & Technology</i> , 2020, 54, 15680-15688.	4.6	35
15	Reactive Uptake of Ozone to Simulated Seawater: Evidence for Iodide Depletion. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9844-9853.	1.1	6
16	Unexpected formation of oxygen-free products and nitrous acid from the ozonolysis of the neonicotinoid nitenpyram. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11321-11327.	3.3	14
17	Spatial distributions of ozonolysis products from human surfaces in ventilated rooms. <i>Indoor Air</i> , 2020, 30, 1229-1240.	2.0	18
18	Aqueous-Phase Decomposition of Isoprene Hydroxy Hydroperoxide and Hydroxyl Radical Formation by Fenton-like Reactions with Iron Ions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5230-5236.	1.1	21

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19	Multiphase Chemistry Controls Inorganic Chlorinated and Nitrogenated Compounds in Indoor Air during Bleach Cleaning. <i>Environmental Science & Technology</i> , 2020, 54, 1730-1739.	4.6	87
20	Multiscale Modeling of Human Skin Oil-Induced Indoor Air Chemistry: Combining Kinetic Models and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3836-3843.	1.2	28
21	Indoor boundary layer chemistry modeling. <i>Indoor Air</i> , 2019, 29, 956-967.	2.0	17
22	Oxidative Potential of Particulate Matter and Generation of Reactive Oxygen Species in Epithelial Lining Fluid. <i>Environmental Science & Technology</i> , 2019, 53, 12784-12792.	4.6	73
23	A molecular picture of surface interactions of organic compounds on prevalent indoor surfaces: limonene adsorption on SiO ₂ . <i>Chemical Science</i> , 2019, 10, 2906-2914.	3.7	52
24	The impact of clothing on ozone and squalene ozonolysis products in indoor environments. <i>Communications Chemistry</i> , 2019, 2, .	2.0	54
25	Effects of Phase State and Phase Separation on Dimethylamine Uptake of Ammonium Sulfate and Ammonium Sulfate-Sucrose Mixed Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1268-1278.	1.2	10
26	Multiphase reactivity of polycyclic aromatic hydrocarbons is driven by phase separation and diffusion limitations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11658-11663.	3.3	86
27	Modelling consortium for chemistry of indoor environments (MOCCIE): integrating chemical processes from molecular to room scales. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1240-1254.	1.7	36
28	Spatial variations in the estimated production of reactive oxygen species in the epithelial lung lining fluid by iron and copper in fine particulate air pollution. <i>Environmental Epidemiology</i> , 2018, 2, e020.	1.4	22
29	Understanding interactions of organic nitrates with the surface and bulk of organic films: implications for particle growth in the atmosphere. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1593-1610.	1.7	12
30	Reactive Oxygen Species Formed by Secondary Organic Aerosols in Water and Surrogate Lung Fluid. <i>Environmental Science & Technology</i> , 2018, 52, 11642-11651.	4.6	59
31	Kinetics, mechanisms and ionic liquids in the uptake of n-butylamine onto low molecular weight dicarboxylic acids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4827-4839.	1.3	12
32	Reactive oxygen species formed in aqueous mixtures of secondary organic aerosols and mineral dust influencing cloud chemistry and public health in the Anthropocene. <i>Faraday Discussions</i> , 2017, 200, 251-270.	1.6	51
33	The uptake of HO ₂ on meteoric smoke analogues. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 554-565.	1.2	10
34	Atmospheric protein chemistry influenced by anthropogenic air pollutants: nitration and oligomerization upon exposure to ozone and nitrogen dioxide. <i>Faraday Discussions</i> , 2017, 200, 413-427.	1.6	37
35	Release of free amino acids upon oxidation of peptides and proteins by hydroxyl radicals. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2411-2420.	1.9	62
36	Air Pollution and Climate Change Effects on Allergies in the Anthropocene: Abundance, Interaction, and Modification of Allergens and Adjuvants. <i>Environmental Science & Technology</i> , 2017, 51, 4119-4141.	4.6	193

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37	Chemical kinetics of multiphase reactions between ozone and human skin lipids: Implications for indoor air quality and health effects. <i>Indoor Air</i> , 2017, 27, 816-828.	2.0	64
38	Heterogeneous OH Oxidation, Shielding Effects, and Implications for the Atmospheric Fate of Terbutylazine and Other Pesticides. <i>Environmental Science & Technology</i> , 2017, 51, 13749-13754.	4.6	24
39	Aerosol Health Effects from Molecular to Global Scales. <i>Environmental Science & Technology</i> , 2017, 51, 13545-13567.	4.6	384
40	Organics Substantially Reduce HO ₂ Uptake onto Aerosols Containing Transition Metal ions. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1421-1430.	1.1	20
41	Chemical exposure-response relationship between air pollutants and reactive oxygen species in the human respiratory tract. <i>Scientific Reports</i> , 2016, 6, 32916.	1.6	228
42	Hydroxyl radicals from secondary organic aerosol decomposition in water. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1761-1771.	1.9	138
43	The effect of viscosity and diffusion on the HO ₂ uptake by sucrose and secondary organic aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13035-13047.	1.9	29
44	Measurements of the HO ₂ Uptake Coefficients onto Single Component Organic Aerosols. <i>Environmental Science & Technology</i> , 2015, 49, 4878-4885.	4.6	36
45	Multiphase Kinetic Multilayer Model Interfaces for Simulating Surface and Bulk Chemistry for Environmental and Atmospheric Chemistry Teaching. <i>Journal of Chemical Education</i> , 0, , .	1.1	6
46	Heterogeneous Interactions between Carvone and Hydroxylated SiO ₂ . <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	6