Pascale Lakey

List of Publications by Year
in descending order

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Version: 2024-02-01

46 papers	2,175 citations	279798 23 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	2789 citing authors

#	Article	IF	Citations
1	Aerosol Health Effects from Molecular to Global Scales. Environmental Science & Technology, 2017, 51, 13545-13567.	10.0	384
2	Chemical exposure-response relationship between air pollutants and reactive oxygen species in the human respiratory tract. Scientific Reports, 2016, 6, 32916.	3.3	228
3	Air Pollution and Climate Change Effects on Allergies in the Anthropocene: Abundance, Interaction, and Modification of Allergens and Adjuvants. Environmental Science & Technology, 2017, 51, 4119-4141.	10.0	193
4	Hydroxyl radicals from secondary organic aerosol decomposition in water. Atmospheric Chemistry and Physics, 2016, 16, 1761-1771.	4.9	138
5	Multiphase Chemistry Controls Inorganic Chlorinated and Nitrogenated Compounds in Indoor Air during Bleach Cleaning. Environmental Science & Technology, 2020, 54, 1730-1739.	10.0	87
6	Multiphase reactivity of polycyclic aromatic hydrocarbons is driven by phase separation and diffusion limitations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11658-11663.	7.1	86
7	Oxidative Potential of Particulate Matter and Generation of Reactive Oxygen Species in Epithelial Lining Fluid. Environmental Science & Technology, 2019, 53, 12784-12792.	10.0	73
8	Chemical kinetics of multiphase reactions between ozone and human skin lipids: Implications for indoor air quality and health effects. Indoor Air, 2017, 27, 816-828.	4.3	64
9	Release of free amino acids upon oxidation of peptides and proteins by hydroxyl radicals. Analytical and Bioanalytical Chemistry, 2017, 409, 2411-2420.	3.7	62
10	Reactive Oxygen Species Formed by Secondary Organic Aerosols in Water and Surrogate Lung Fluid. Environmental Science & Technology, 2018, 52, 11642-11651.	10.0	59
11	The impact of clothing on ozone and squalene ozonolysis products in indoor environments. Communications Chemistry, 2019, 2, .	4.5	54
12	A molecular picture of surface interactions of organic compounds on prevalent indoor surfaces: limonene adsorption on SiO₂. Chemical Science, 2019, 10, 2906-2914.	7.4	52
13	Reactive oxygen species formed in aqueous mixtures of secondary organic aerosols and mineral dust influencing cloud chemistry and public health in the Anthropocene. Faraday Discussions, 2017, 200, 251-270.	3.2	51
14	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. Environmental Science & Technology, 2021, 55, 3807-3818.	10.0	39
15	Hydroxyl Radical Production by Air Pollutants in Epithelial Lining Fluid Governed by Interconversion and Scavenging of Reactive Oxygen Species. Environmental Science & Technology, 2021, 55, 14069-14079.	10.0	39
16	Atmospheric protein chemistry influenced by anthropogenic air pollutants: nitration and oligomerization upon exposure to ozone and nitrogen dioxide. Faraday Discussions, 2017, 200, 413-427.	3.2	37
17	Measurements of the HO₂ Uptake Coefficients onto Single Component Organic Aerosols. Environmental Science & Technology, 2015, 49, 4878-4885.	10.0	36
18	Modelling consortium for chemistry of indoor environments (MOCCIE): integrating chemical processes from molecular to room scales. Environmental Sciences: Processes and Impacts, 2019, 21, 1240-1254.	3.5	36

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19	Unexpectedly High Indoor HONO Concentrations Associated with Photochemical NO₂ Transformation on Glass Windows. Environmental Science & Technology, 2020, 54, 15680-15688.	10.0	35
20	Superoxide Formation from Aqueous Reactions of Biogenic Secondary Organic Aerosols. Environmental Science & Technology, 2021, 55, 260-270.	10.0	35
21	The effect of viscosity and diffusion on the HO₂ uptake by sucrose and secondary organic aerosol particles. Atmospheric Chemistry and Physics, 2016, 16, 13035-13047.	4.9	29
22	Multiscale Modeling of Human Skin Oil-Induced Indoor Air Chemistry: Combining Kinetic Models and Molecular Dynamics. Journal of Physical Chemistry B, 2020, 124, 3836-3843.	2.6	28
23	Spatial and temporal scales of variability for indoor air constituents. Communications Chemistry, 2021, 4, .	4.5	26
24	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. International Journal of Epidemiology, 2021, 50, 589-601.	1.9	25
25	Heterogeneous OH Oxidation, Shielding Effects, and Implications for the Atmospheric Fate of Terbuthylazine and Other Pesticides. Environmental Science & Technology, 2017, 51, 13749-13754.	10.0	24
26	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. Environmental Epidemiology, 2018, 2, e020.	3.0	22
27	Aqueous-Phase Decomposition of Isoprene Hydroxy Hydroperoxide and Hydroxyl Radical Formation by Fenton-like Reactions with Iron Ions. Journal of Physical Chemistry A, 2020, 124, 5230-5236.	2.5	21
28	Organics Substantially Reduce HO2 Uptake onto Aerosols Containing Transition Metal ions. Journal of Physical Chemistry A, 2016, 120, 1421-1430.	2.5	20
29	Iron-Facilitated Organic Radical Formation from Secondary Organic Aerosols in Surrogate Lung Fluid. Environmental Science & Technology, 2022, 56, 7234-7243.	10.0	20
30	Spatial distributions of ozonolysis products from human surfaces in ventilated rooms. Indoor Air, 2020, 30, 1229-1240.	4.3	18
31	Indoor boundary layer chemistry modeling. Indoor Air, 2019, 29, 956-967.	4.3	17
32	Within-City Variation in Reactive Oxygen Species from Fine Particle Air Pollution and COVID-19. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 168-177.	5.6	17
33	Unexpected formation of oxygen-free products and nitrous acid from the ozonolysis of the neonicotinoid nitenpyram. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11321-11327.	7.1	14
34	Kinetic multiâ€layer model of film formation, growth, and chemistry (KMâ€FILM): Boundary layer processes, multiâ€layer adsorption, bulk diffusion, and heterogeneous reactions. Indoor Air, 2021, 31, 2070-2083.	4.3	14
35	Multiphase Ozonolysis of Oleic Acid-Based Lipids: Quantitation of Major Products and Kinetic Multilayer Modeling. Environmental Science & Technology, 2022, 56, 7716-7728.	10.0	14
36	Kinetics, mechanisms and ionic liquids in the uptake of n-butylamine onto low molecular weight dicarboxylic acids. Physical Chemistry Chemical Physics, 2017, 19, 4827-4839.	2.8	12

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37	Understanding interactions of organic nitrates with the surface and bulk of organic films: implications for particle growth in the atmosphere. Environmental Sciences: Processes and Impacts, 2018, 20, 1593-1610.	3.5	12
38	The uptake of HO₂ on meteoric smoke analogues. Journal of Geophysical Research D: Atmospheres, 2017, 122, 554-565.	3.3	10
39	Effects of Phase State and Phase Separation on Dimethylamine Uptake of Ammonium Sulfate and Ammonium Sulfateâ€“Sucrose Mixed Particles. ACS Earth and Space Chemistry, 2019, 3, 1268-1278.	2.7	10
40	Volatile products generated from reactions between ozone and human skin lipids: A modelling estimation. Building and Environment, 2022, 217, 109068.	6.9	7
41	Reactive Uptake of Ozone to Simulated Seawater: Evidence for Iodide Depletion. Journal of Physical Chemistry A, 2020, 124, 9844-9853.	2.5	6
42	Multiphase Kinetic Multilayer Model Interfaces for Simulating Surface and Bulk Chemistry for Environmental and Atmospheric Chemistry Teaching. Journal of Chemical Education, 0, , .	2.3	6
43	Heterogeneous Interactions between Carvone and Hydroxylated SiO₂. Journal of Physical Chemistry C, 0, , .	3.1	6
44	Predicting Spatial Variations in Multiple Measures of PM_{2.5} Oxidative Potential and Magnetite Nanoparticles in Toronto and Montreal, Canada. Environmental Science & Technology, 2022, 56, 7256-7265.	10.0	4
45	Behavior of carbon monoxide, nitrogen oxides, and ozone in a vehicle cabin with a passenger. Environmental Sciences: Processes and Impacts, 2021, 23, 302-310.	3.5	2
46	Iodine emission from the reactive uptake of ozone to simulated seawater. Environmental Sciences: Processes and Impacts, 2023, 25, 254-263.	3.5	2