

Rebecca H Schwantes

List of Publications by Year in descending order

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37
papers

2,163
citations

371628

19
h-index

356229

35
g-index

81
all docs

81
docs citations

81
times ranked

3525
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameterizations of US wildfire and prescribed fire emission ratios and emission factors based on FIREX-AQ aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2024, 24, 929-956.	5.0	3
2	Contribution of cooking emissions to the urban volatile organic compounds in Las Vegas, NV. <i>Atmospheric Chemistry and Physics</i> , 2024, 24, 4289-4304.	5.0	1
3	A better representation of volatile organic compound chemistry in WRF-Chem and its impact on ozone over Los Angeles. <i>Atmospheric Chemistry and Physics</i> , 2024, 24, 5265-5286.	5.0	1
4	Temperature-dependent emissions dominate aerosol and ozone formation in Los Angeles. <i>Science</i> , 2024, 384, 1324-1329.	20.9	1
5	Influence of Wildfire on Urban Ozone: An Observationally Constrained Box Modeling Study at a Site in the Colorado Front Range. <i>Environmental Science & Technology</i> , 2023, 57, 1257-1267.	10.5	23
6	Linking gas, particulate, and toxic endpoints to air emissions in the Community Regional Atmospheric Chemistry Multiphase Mechanism (CRACMM). <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 5043-5099.	5.0	13
7	Sensitivity of northeastern US surface ozone predictions to the representation of atmospheric chemistry in the Community Regional Atmospheric Chemistry Multiphase Mechanism (CRACMMv1.0). <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 9173-9190.	5.0	1
8	Comparison between Spatially Resolved Airborne Flux Measurements and Emission Inventories of Volatile Organic Compounds in Los Angeles. <i>Environmental Science & Technology</i> , 2023, 57, 15533-15545.	10.5	8
9	Improved Spatial Resolution in Modeling of Nitrogen Oxide Concentrations in the Los Angeles Basin. <i>Environmental Science & Technology</i> , 2023, 57, 20689-20698.	10.5	2
10	COVID-19 perturbation on US air quality and human health impact assessment. <i>PNAS Nexus</i> , 2023, 3, .	2.6	3
11	Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	9
12	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. <i>Environmental Science & Technology</i> , 2022, 56, 7564-7577.	10.5	17
13	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.7	29
14	Effects of Fire Diurnal Variation and Plume Rise on U.S. Air Quality During FIREX-AQ and WE-CAN Based on the Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICAv0). <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	19
15	Large Eddy Simulation for Investigating Coupled Forest Canopy and Turbulence Influences on Atmospheric Chemistry. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.7	5
16	Screening of effective NRR electrocatalysts among the Si-based MSi_2N_4 ($M = \text{Tj, ET, Q, Q0, Q00, rg, BT, Q}$) Overlock 10	10.5	42
17	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3395-3425.	5.0	18
18	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. <i>Environmental Science & Technology</i> , 2021, 55, 10280-10290.	10.5	39

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19	Improvements to the representation of BVOC chemistryâ€”climate interactions in UKCA (v11.5) with the CRI-StratA2 mechanism: incorporation and evaluation. <i>Geoscientific Model Development</i> , 2021, 14, 5239-5268.	3.7	12
20	Volatile chemical product emissions enhance ozone and modulate urban chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.6	132
21	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16293-16317.	5.0	40
22	Global Atmospheric Budget of Acetone: Airâ€”Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553.	3.3	20
23	Odd-frequency superconductivity near a magnetic impurity in a conventional superconductor. <i>Physical Review B</i> , 2020, 101, .	3.3	20
24	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001882.	3.7	222
25	Comprehensive isoprene and terpene gas-phase chemistry improves simulated surface ozone in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3739-3776.	5.0	49
26	Low-volatility compounds contribute significantly to isoprene secondary organic aerosol (SOA) under high-NO<sub>2</sub> conditions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7255-7278.	5.0	47
27	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. <i>Chemical Reviews</i> , 2018, 118, 3337-3390.	51.4	373
28	Alkoxy Radical Bond Scissions Explain the Anomalously Low Secondary Organic Aerosol and Organonitrate Yields From Î±-Pinene + NO₃. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2826-2834.	4.9	55
29	Science of the Environmental Chamber. , 2017, , 1-93.		12
30	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2103-2162.	5.0	331
31	Formation of highly oxygenated low-volatility products from cresol oxidation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3453-3474.	5.0	95
32	Real-Time Studies of Iron Oxalate-Mediated Oxidation of Glycolaldehyde as a Model for Photochemical Aging of Aqueous Tropospheric Aerosols. <i>Environmental Science & Technology</i> , 2016, 50, 12241-12249.	10.5	44
33	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	2.9	185
34	Secondary Organic Aerosol Composition from C₁₂ Alkanes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4281-4297.	2.6	54
35	Mechanism of the hydroxyl radical oxidation of methacryloyl peroxyxynitrate (MPAN) and its pathway toward secondary organic aerosol formation in the atmosphere. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17914-17926.	2.9	112
36	Isoprene NO₃ Oxidation Products from the RO₂ + HO₂ Pathway. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10158-10171.	2.6	95

#	ARTICLE	IF	CITATIONS
37	Electrical storms in patients with biventricular ICD may suggest cardiac resynchronization therapy inefficacy. <i>European Journal of Heart Failure, Supplement</i> , 2008, 7, 178-178.	0.0	0