

Rebecca H Schwantes

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. <i>Chemical Reviews</i> , 2018, 118, 3337-3390. | 51.4 | 373 |
| 2 | 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 |
| 3 | 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 |
| 4 | Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254. | 2.9 | 185 |
| 5 | 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 |
| 6 | 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 |
| 7 | Isoprene NO ₃ Oxidation Products from the RO ₂ + HO ₂ Pathway. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10158-10171. | 2.6 | 95 |
| 8 | Formation of highly oxygenated low-volatility products from cresol oxidation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3453-3474. | 5.0 | 95 |
| 9 | Alkoxy Radical Bond Scissions Explain the Anomalously Low Secondary Organic Aerosol and Organonitrate Yields From α -Pinene + NO ₃ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2826-2834. | 4.9 | 55 |
| 10 | Secondary Organic Aerosol Composition from C ₁₂ Alkanes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4281-4297. | 2.6 | 54 |
| 11 | 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 |
| 12 | Low-volatility compounds contribute significantly to isoprene secondary organic aerosol (SOA) under high-NO _x conditions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7255-7278. | 5.0 | 47 |
| 13 | 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 |
| 14 | Screening of effective NRR electrocatalysts among the Si-based MSi ₂ N ₄ (M =) Tj ETQq0 0 0 rgBT /Overlock 10 | 10.5 | 42 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|--|------|-----------|
| 19 | Global Atmospheric Budget of Acetone: Air–Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553. | 3.3 | 20 |
| 20 | Odd-frequency superconductivity near a magnetic impurity in a conventional superconductor. <i>Physical Review B</i> , 2020, 101, . | 3.3 | 20 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | <i>Science of the Environmental Chamber.</i> , 2017, , 1-93. | | 12 |
| 26 | Improvements to the representation of BVOC chemistry–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 |
| 27 | Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, . | 3.3 | 9 |
| 28 | 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 |
| 29 | 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 |
| 30 | COVID-19 perturbation on US air quality and human health impact assessment. <i>PNAS Nexus</i> , 2023, 3, . | 2.6 | 3 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | Temperature-dependent emissions dominate aerosol and ozone formation in Los Angeles. <i>Science</i> , 2024, 384, 1324-1329. | 20.9 | 1 |

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|----|---|-----|-----------|
| 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 |