

Rebecca H Schwantes

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,812
citations

516710

16
h-index

677142

22
g-index

45
all docs

45
docs citations

45
times ranked

2315
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
2	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. Environmental Science & Technology, 2022, 56, 7564-7577.	10.0	15
3	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	20
4	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. Atmospheric Chemistry and Physics, 2021, 21, 3395-3425.	4.9	16
5	Interactions between Air Pollution and Terrestrial Ecosystems: Perspectives on Challenges and Future Directions. Bulletin of the American Meteorological Society, 2021, 102, E525-E538.	3.3	10
6	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. Environmental Science & Technology, 2021, 55, 10280-10290.	10.0	31
7	Improvements to the representation of BVOC chemistryâ€ˆclimate interactions in UKCA (v11.5) with the CRI-StratA2 mechanism: incorporation and evaluation. Geoscientific Model Development, 2021, 14, 5239-5268.	3.6	12
8	Volatile chemical product emissions enhance ozone and modulate urban chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	103
9	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. Atmospheric Chemistry and Physics, 2021, 21, 16293-16317.	4.9	34
10	Global Atmospheric Budget of Acetone: Airâ€ˆSea Exchange and the Contribution to Hydroxyl Radicals. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032553.	3.3	17
11	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001882.	3.8	189
12	Comprehensive isoprene and terpene gas-phase chemistry improves simulated surface ozone in the southeastern US. Atmospheric Chemistry and Physics, 2020, 20, 3739-3776.	4.9	47
13	Low-volatility compounds contribute significantly to isoprene secondary organic aerosol (SOA) under high-NO<sub>2</sub> conditions. Atmospheric Chemistry and Physics, 2019, 19, 7255-7278.	4.9	46
14	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. Chemical Reviews, 2018, 118, 3337-3390.	47.7	339
15	Alkoxy Radical Bond Scissions Explain the Anomalously Low Secondary Organic Aerosol and Organonitrate Yields From Î±-Pinene + NO₃. Journal of Physical Chemistry Letters, 2017, 8, 2826-2834.	4.6	50
16	Science of the Environmental Chamber. , 2017, , 1-93.		12
17	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2103-2162.	4.9	307
18	Formation of highly oxygenated low-volatility products from cresol oxidation. Atmospheric Chemistry and Physics, 2017, 17, 3453-3474.	4.9	89

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19	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.	10.0	42
20	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	2.8	179
21	Secondary Organic Aerosol Composition from C ₁₂ Alkanes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4281-4297.	2.5	53
22	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.	2.8	108
23	Isoprene NO ₃ Oxidation Products from the RO ₂ + HO ₂ Pathway. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10158-10171.	2.5	86