Rebecca H Schwantes

List of Publications by Year
in descending order

23	1,812	516561 16	677027 22
papers	citations	h-index	g-index

45	45	45	2315
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. Chemical Reviews, 2018, 118, 3337-3390.	23.0	339
2	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2103-2162.	1.9	307
3	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001882.	1.3	189
4	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. Physical Chemistry Chemical Physics, 2016, 18, 10241-10254.	1.3	179
5	Mechanism of the hydroxyl radical oxidation of methacryloyl peroxynitrate (MPAN) and its pathway toward secondary organic aerosol formation in the atmosphere. Physical Chemistry Chemical Physics, 2015, 17, 17914-17926.	1.3	108
6	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, .	3.3	103
7	Formation of highly oxygenated low-volatility products from cresol oxidation. Atmospheric Chemistry and Physics, 2017, 17, 3453-3474.	1.9	89
8	Isoprene NO₃ Oxidation Products from the RO₂ + HO₂ Pathway. Journal of Physical Chemistry A, 2015, 119, 10158-10171.	1.1	86
9	Secondary Organic Aerosol Composition from C₁₂ Alkanes. Journal of Physical Chemistry A, 2015, 119, 4281-4297.	1.1	53
10	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.	2.1	50
11	Comprehensive isoprene and terpene gas-phase chemistry improves simulated surface ozone in the southeastern US. Atmospheric Chemistry and Physics, 2020, 20, 3739-3776.	1.9	47
12	Low-volatility compounds contribute significantly to isoprene secondary organic aerosol (SOA) under high-NO_{<i>x</i>} conditions. Atmospheric Chemistry and Physics, 2019, 19, 7255-7278.	1.9	46
13	Real-Time Studies of Iron Oxalate-Mediated Oxidation of Glycolaldehyde as a Model for Photochemical Aging of Aqueous Tropospheric Aerosols. Environmental Science & Technology, 2016, 50, 12241-12249.	4.6	42
14	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.	1.9	34
15	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. Environmental Science & Technology, 2021, 55, 10280-10290.	4.6	31
16	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, .	1.3	20
17	Global Atmospheric Budget of Acetone: Airâ€Sea Exchange and the Contribution to Hydroxyl Radicals. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032553.	1.2	17
18	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.	1.9	16

#	Article	IF	Citations
19	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. Environmental Science & Technology, 2022, 56, 7564-7577.	4.6	15
20	Science of the Environmental Chamber. , 2017, , 1-93.		12
21	Improvements to the representation of BVOC chemistryâ€“climate interactions in UKCA (v11.5) with the CRI-StratÂ2 mechanism: incorporation and evaluation. Geoscientific Model Development, 2021, 14, 5239-5268.	1.3	12
22	Interactions between Air Pollution and Terrestrial Ecosystems: Perspectives on Challenges and Future Directions. Bulletin of the American Meteorological Society, 2021, 102, E525-E538.	1.7	10
23	Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	6