

# Xinrong Ren

## List of Publications by Citations

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**Version:** 2024-04-27

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108  
papers

5,028  
citations

37  
h-index

69  
g-index

131  
ext. papers

5,764  
ext. citations

6.1  
avg, IF

4.93  
L-index

#	Paper	IF	Citations
108	Missing OH reactivity in a forest: evidence for unknown reactive biogenic VOCs. <i>Science</i> , <b>2004</b> , 304, 722-533	5.3	384
107	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		257
106	OH and HO <sub>2</sub> Chemistry in the urban atmosphere of New York City. <i>Atmospheric Environment</i> , <b>2003</b> , 37, 3639-3651	5.3	249
105	Airborne measurement of OH reactivity during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1636-173	6.8	225
104	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5823-5838	6.8	184
103	Atmospheric oxidation in the Mexico City Metropolitan Area (MCMA) during April 2003. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 2753-2765	6.8	183
102	India Is Overtaking China as the World's Largest Emitter of Anthropogenic Sulfur Dioxide. <i>Scientific Reports</i> , <b>2017</b> , 7, 14304	4.9	182
101	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 8009-8020	6.8	175
100	Atmospheric oxidation capacity in the summer of Houston 2006: Comparison with summer measurements in other metropolitan studies. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 4107-4115	5.3	168
99	HO <sub>x</sub> concentrations and OH reactivity observations in New York City during PMTACS-NY2001. <i>Atmospheric Environment</i> , <b>2003</b> , 37, 3627-3637	5.3	154
98	A Laser-induced Fluorescence Instrument for Detecting Tropospheric OH and HO <sub>2</sub> : Characteristics and Calibration. <i>Journal of Atmospheric Chemistry</i> , <b>2004</b> , 47, 139-167	3.2	144
97	HO <sub>x</sub> chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		142
96	Behavior of OH and HO <sub>2</sub> in the winter atmosphere in New York City. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 252-263	5.3	132
95	Daytime HONO vertical gradients during SHARP 2009 in Houston, TX. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 635-652	6.8	103
94	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		102
93	Observational insights into aerosol formation from isoprene. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11403-13	10.3	95
92	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7623-7641	6.8	87

91	OH, HO <sub>2</sub> , and OH reactivity during the PMTACS/2002 Whiteface Mountain 2002 campaign: Observations and model comparison. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		79
90	Top-down constraints on atmospheric mercury emissions and implications for global biogeochemical cycling. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7103-7125	6.8	76
89	Summertime influence of Asian pollution in the free troposphere over North America. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		72
88	Characterization of Wintertime Reactive Oxygen Species Concentrations in Flushing, New York. <i>Aerosol Science and Technology</i> , <b>2007</b> , 41, 97-111	3.4	70
87	Impacts of brown carbon from biomass burning on surface UV and ozone photochemistry in the Amazon Basin. <i>Scientific Reports</i> , <b>2016</b> , 6, 36940	4.9	68
86	Atmospheric oxidation chemistry and ozone production: Results from SHARP 2009 in Houston, Texas. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5770-5780	4.4	67
85	A relaxed eddy accumulation system for measuring vertical fluxes of nitrous acid. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 2093-2103	4	65
84	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3373-3395	6.8	61
83	Measurement of HO <sub>2</sub> NO <sub>2</sub> in the free troposphere during the Intercontinental Chemical Transport Experiment-North America 2004. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		60
82	Ozone production and its sensitivity to NO <sub>x</sub> and VOCs: results from the DISCOVER-AQ field experiment, Houston 2013. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 14463-14474	6.8	58
81	Evidence for a nitrous acid (HONO) reservoir at the ground surface in Bakersfield, CA, during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9093-9106	4.4	54
80	A comparison of chemical mechanisms based on TRAMP-2006 field data. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 4116-4125	5.3	54
79	Measurement of atmospheric nitrous acid at Bodgett Forest during BEARPEX2007. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6283-6294	6.8	52
78	Hydroxyl and Peroxy Radical Chemistry in a Rural Area of Central Pennsylvania: Observations and Model Comparisons. <i>Journal of Atmospheric Chemistry</i> , <b>2005</b> , 52, 231-257	3.2	51
77	Interference Testing for Atmospheric HO <sub>x</sub> Measurements by Laser-induced Fluorescence. <i>Journal of Atmospheric Chemistry</i> , <b>2004</b> , 47, 169-190	3.2	49
76	Formation and growth of ultrafine particles from secondary sources in Bakersfield, California. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		48
75	Evaluation and environmental correction of ambient CO measurements from a low-cost NDIR sensor. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10,	4	46
74	Vertical profiles of NO <sub>2</sub> , SO <sub>2</sub> , HONO, HCHO, CHOCHO and aerosols derived from MAX-DOAS measurements at a rural site in the central western North China Plain and their relation to emission sources and effects of regional transport. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 5117-5119	6.8	43

73	Nitrogen dioxide observations from the Geostationary Trace gas and Aerosol Sensor Optimization (GeoTASO) airborne instrument: Retrieval algorithm and measurements during DISCOVER-AQ Texas 2013. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 2647-2668	4	38
72	Ozone production chemistry in the presence of urban plumes. <i>Faraday Discussions</i> , <b>2016</b> , 189, 169-89	3.6	37
71	Airborne Vertical Profiling of Mercury Speciation near Tullahoma, TN, USA. <i>Atmosphere</i> , <b>2014</b> , 5, 557-574.	4.7	35
70	Impact of clouds and aerosols on ozone production in Southeast Texas. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 4126-4133	5.3	33
69	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B and MILAGRO campaigns: potential evidence for significant impacts of unmeasured and multi-generation volatile organic carbon compounds. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 11867-11894	6.8	32
68	Role of convection in redistributing formaldehyde to the upper troposphere over North America and the North Atlantic during the summer 2004 INTEX campaign. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		31
67	Detection of formaldehyde emissions from an industrial zone in the Yangtze River Delta region of China using a proton transfer reaction ion-drift chemical ionization mass spectrometer. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 6101-6116	4	30
66	Direct measurement of ozone production rates in Houston in 2009 and comparison with two estimation methods. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1203-1212	6.8	29
65	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6799-6825	6.8	29
64	Summertime buildup and decay of lightning NO <sub>x</sub> and aged thunderstorm outflow above North America. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		29
63	Intercomparison of peroxy radical measurements at a rural site using laser-induced fluorescence and Peroxy Radical Chemical Ionization Mass Spectrometer (PerCIMS) techniques. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		29
62	SO Emission Estimates Using OMI SO Retrievals for 2005-2017. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 8336-8359	4.4	28
61	Performance evaluation of an air quality forecast modeling system for a summer and winter season [Photochemical oxidants and their precursors. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 8585-8599	5.3	28
60	Intercomparison of field measurements of nitrous acid (HONO) during the SHARP campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5583-5601	4.4	27
59	Methane Emissions From the Baltimore-Washington Area Based on Airborne Observations: Comparison to Emissions Inventories. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 8869-8882	4.4	25
58	Estimating Methane Emissions From Underground Coal and Natural Gas Production in Southwestern Pennsylvania. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 4531-4540	4.9	24
57	Measuring atmospheric naphthalene with laser-induced fluorescence. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 563-569	6.8	24
56	Top-Down Estimates of NO <sub>x</sub> and CO Emissions From Washington, D.C.-Baltimore During the WINTER Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 7705-7724	4.4	24

55	An Atmospheric Constraint on the NO <sub>2</sub> Dependence of Daytime Near-Surface Nitrous Acid (HONO). <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 12774-81	10.3	23
54	Automated Calibration of Atmospheric Oxidized Mercury Measurements. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12921-12927	10.3	23
53	Multi-model study of mercury dispersion in the atmosphere: vertical and interhemispheric distribution of mercury species. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 6925-6955	6.8	23
52	Airborne intercomparison of HO <sub>2</sub> measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 2025-2037	4	23
51	Using Short-Term CO/CO <sub>2</sub> Ratios to Assess Air Mass Differences Over the Korean Peninsula During KORUS-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10951-10972	4.4	21
50	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4272-4295	4.4	20
49	Observational Constraints on the Oxidation of NO <sub>x</sub> in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 1468-78	2.8	20
48	On the use of data from commercial NO <sub>x</sub> analyzers for air pollution studies. <i>Atmospheric Environment</i> , <b>2019</b> , 214, 116873	5.3	20
47	Vertical distributions of aerosol optical properties during the spring 2016 ARIAs airborne campaign in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 8995-9010	6.8	19
46	Methane Emissions from the Marcellus Shale in Southwestern Pennsylvania and Northern West Virginia Based on Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 1862-1878	4.4	18
45	Mercury Speciation at a Coastal Site in the Northern Gulf of Mexico: Results from the Grand Bay Intensive Studies in Summer 2010 and Spring 2011. <i>Atmosphere</i> , <b>2014</b> , 5, 230-251	2.7	16
44	Modeling the global atmospheric transport and deposition of mercury to the Great Lakes. <i>Elementa</i> , <b>2016</b> , 4,	3.6	15
43	Insights into hydroxyl measurements and atmospheric oxidation in a California forest		15
42	Urban Emissions of Water Vapor in Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 9467-9484	4.4	13
41	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 14617-14647	6.8	13
40	Atmospheric mercury measurements at a suburban site in the Mid-Atlantic United States: Inter-annual, seasonal and diurnal variations and source-receptor relationships. <i>Atmospheric Environment</i> , <b>2016</b> , 146, 141-152	5.3	12
39	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> , <b>2021</b> , 118,	11.5	11
38	Wintertime CO, CH <sub>4</sub> , and CO Emissions Estimation for the Washington, DC-Baltimore Metropolitan Area Using an Inverse Modeling Technique. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 2606-2614	10.3	10

37	Projections of atmospheric mercury levels and their effect on air quality in the United States. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 783-795	6.8	10
36	Quantitative relationship between production and removal of OH and HO <sub>2</sub> radicals in urban atmosphere. <i>Science Bulletin</i> , <b>2004</b> , 49, 2253		10
35	Extreme oxidant amounts produced by lightning in storm clouds. <i>Science</i> , <b>2021</b> , 372, 711-715	33.3	10
34	Methane emissions from the Marcellus Shale in southwestern Pennsylvania and northern West Virginia based on airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 4639-4653	4.4	9
33	Budget of nitrous acid and its impacts on atmospheric oxidative capacity at an urban site in the central Yangtze River Delta region of China. <i>Atmospheric Environment</i> , <b>2020</b> , 238, 117725	5.3	9
32	Contribution of nitrous acid to the atmospheric oxidation capacity in an industrial zone in the Yangtze River Delta region of China. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5457-5475	6.8	8
31	Assessing Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals over urban versus non-urban regions. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 1337-1356	4	8
30	Using near-road observations of CO, NO <sub>y</sub> , and CO <sub>2</sub> to investigate emissions from vehicles: Evidence for an impact of ambient temperature and specific humidity. <i>Atmospheric Environment</i> , <b>2020</b> , 232, 117558	5.3	8
29	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 14493-14510	6.8	8
28	Controls on urban ozone production rate as indicated by formaldehyde oxidation rate and nitric oxide. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 5395-5406	5.3	7
27	Measurement report: Aircraft observations of ozone, nitrogen oxides, and volatile organic compounds over Hebei Province, China. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 14523-14545	6.8	6
26	Long-Term Observations of Atmospheric Speciated Mercury at a Coastal Site in the Northern Gulf of Mexico during 2007-2018. <i>Atmosphere</i> , <b>2020</b> , 11, 268	2.7	4
25	Global sensitivity analysis of GEOS-Chem modeled ozone and hydrogen oxides during the INTEX campaigns. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2443-2460	6.8	4
24	Meteorological Modeling Using the WRF-ARW Model for Grand Bay Intensive Studies of Atmospheric Mercury. <i>Atmosphere</i> , <b>2015</b> , 6, 209-233	2.7	4
23	Synergistic aircraft and ground observations of transported wildfire smoke and its impact on air quality in New York City during the summer 2018 LISTOS campaign. <i>Science of the Total Environment</i> , <b>2021</b> , 773, 145030	10.2	3
22	Evaluation of Anthropogenic Emissions and Ozone Pollution in the North China Plain: Insights from the Air Chemistry Research in Asia (ARIAs) Campaign <b>2019</b> ,		2
21	Fluxes of Atmospheric Greenhouse-Gases in Maryland (FLAGG-MD): Emissions of Carbon Dioxide in the Baltimore, MD-Washington, D.C. Area. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032004	4.4	2
20	Airborne intercomparison of HO <sub>2</sub> measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS <b>2012</b> ,		2

19	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ		2
18	Airborne measurement of OH reactivity during INTEX-B		2
17	Daytime HONO Vertical Gradients during SHARP 2009 in Houston, TX		2
16	Multi-model study of mercury dispersion in the atmosphere: Vertical distribution of mercury species <b>2016</b> ,		2
15	Ozone Production and Its Sensitivity to NO <sub>x</sub> and VOCs: Results from the DISCOVER-AQ Field Experiment, Houston 2013 <b>2016</b> ,		2
14	Measurement Report: Aircraft Observations of Ozone, Nitrogen Oxides, and Volatile Organic Compounds over Hebei Province, China <b>2020</b> ,		1
13	A relaxed eddy accumulation system for measuring vertical fluxes of nitrous acid <b>2011</b> ,		1
12	Conversion rates of surface HO <sub>x</sub> radicals in Beijing City. <i>Chinese Geographical Science</i> , <b>2004</b> , 14, 34-38	2.9	1
11	Measurement of atmospheric nitrous acid at Blodgett Forest during BEARPEX2007		1
10	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B campaign: potential evidence for unmeasured and multi-generation volatile organic carbon oxidation processing		1
9	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE		1
8	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley California		1
7	Closing the peroxy acetyl (PA) radical budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007		1
6	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring		1
5	Gaseous Elemental Mercury Concentrations along the Northern Gulf of Mexico Using Passive Air Sampling, with a Comparison to Active Sampling. <i>Atmosphere</i> , <b>2020</b> , 11, 1034	2.7	1
4	Seasonality of nitrous acid near an industry zone in the Yangtze River Delta region of China: Formation mechanisms and contribution to the atmospheric oxidation capacity. <i>Atmospheric Environment</i> , <b>2021</b> , 254, 118420	5.3	1
3	Airborne Observations of CFCs Over Hebei Province, China in Spring 2016. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD035152	4.4	1
2	Observations of bay-breeze and ozone events over a marine site during the OWLETS-2 campaign. <i>Atmospheric Environment</i> , <b>2021</b> , 263, 118669	5.3	1

1 Sensitivity of total column NO<sub>2</sub> at a marine site within the Chesapeake Bay during OWLETS-2.  
*Atmospheric Environment*, **2022**, 277, 119063

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