

Viral Shah

List of Publications by Year in descending order

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36
papers

2,631
citations

218381

26
h-index

344852

36
g-index

52
all docs

52
docs citations

52
times ranked

3112
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-pollutant strategy for improving ozone and particulate air quality in China. <i>Nature Geoscience</i> , 2019, 12, 906-910.	5.4	493
2	Source sector and fuel contributions to ambient PM _{2.5} and attributable mortality across multiple spatial scales. <i>Nature Communications</i> , 2021, 12, 3594.	5.8	199
3	Control of particulate nitrate air pollution in China. <i>Nature Geoscience</i> , 2021, 14, 389-395.	5.4	139
4	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: air quality model assessment using observations of sulfate oxygen isotopes in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6107-6123.	1.9	137
5	Effect of changing NO _x lifetime on the seasonality and long-term trends of satellite-observed tropospheric NO ₂ columns over China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1483-1495.	1.9	135
6	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. <i>Environmental Science & Technology</i> , 2017, 51, 5650-5657.	4.6	131
7	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8110-8115.	3.3	118
8	Life cycle assessment of residential heating and cooling systems in four regions in the United States. <i>Energy and Buildings</i> , 2008, 40, 503-513.	3.1	110
9	Heterogeneous N ₂ O ₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4345-4372.	1.2	103
10	Progress on Understanding Atmospheric Mercury Hampered by Uncertain Measurements. <i>Environmental Science & Technology</i> , 2014, 48, 7204-7206.	4.6	90
11	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7771-7796.	1.2	71
12	Origin of oxidized mercury in the summertime free troposphere over the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1511-1530.	1.9	68
13	Improved Mechanistic Model of the Atmospheric Redox Chemistry of Mercury. <i>Environmental Science & Technology</i> , 2021, 55, 14445-14456.	4.6	65
14	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 547-567.	1.7	62
15	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. <i>Geophysical Research Letters</i> , 2017, 44, 7069-7078.	1.5	60
16	Oxidation of mercury by bromine in the subtropical Pacific free troposphere. <i>Geophysical Research Letters</i> , 2015, 42, 10,494.	1.5	57
17	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13973-13996.	1.9	57
18	NO _x Lifetime and NO _y Partitioning During WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9813-9827.	1.2	52

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19	The Role of Clouds in the Tropospheric NO _x Cycle: A New Modeling Approach for Cloud Chemistry and Its Global Implications. <i>Geophysical Research Letters</i> , 2019, 46, 4980-4990.	1.5	51
20	A characterization model with spatial and temporal resolution for life cycle impact assessment of photochemical precursors in the United States. <i>International Journal of Life Cycle Assessment</i> , 2009, 14, 313-327.	2.2	50
21	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,368.	1.2	49
22	US COVID-19 Shutdown Demonstrates Importance of Background NO ₂ in Inferring NO _x Emissions From Satellite NO ₂ Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092783.	1.5	38
23	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11225-11237.	1.2	33
24	Global modeling of cloud water acidity, precipitation acidity, and acid inputs to ecosystems. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12223-12245.	1.9	33
25	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1846-1861.	1.2	30
26	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. <i>Geophysical Research Letters</i> , 2019, 46, 14826-14835.	1.5	28
27	Nitrogen oxides in the global upper troposphere: interpreting cloud-sliced NO ₂ observations from the OMI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17017-17027.	1.9	25
28	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. <i>Geophysical Research Letters</i> , 2019, 46, 2974-2983.	1.5	25
29	Using CALIOP to constrain blowing snow emissions of sea salt aerosols over Arctic and Antarctic sea ice. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16253-16269.	1.9	23
30	Subtropical subsidence and surface deposition of oxidized mercury produced in the free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8999-9017.	1.9	22
31	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,897.	1.2	21
32	Evaluating atmospheric mercury (Hg) uptake by vegetation in a chemistry-transport model. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1303-1318.	1.7	13
33	Rates of Wintertime Atmospheric SO ₂ Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6630-6649.	1.2	12
34	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033518.	1.2	9
35	Constraints from observations and modeling on atmosphere-surface exchange of mercury in eastern North America. <i>Elementa</i> , 2016, 4, .	1.1	4
36	Two decades of changing anthropogenic mercury emissions in Australia: inventory development, trends, and atmospheric implications. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1474-1493.	1.7	3