

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	Evaluating atmospheric mercury (Hg) uptake by vegetation in a chemistry-transport model. Environmental Sciences: Processes and Impacts, 2022, 24, 1303-1318.	1.7	13
2	Two decades of changing anthropogenic mercury emissions in Australia: inventory development, trends, and atmospheric implications. Environmental Sciences: Processes and Impacts, 2022, 24, 1474-1493.	1.7	3
3	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033518.	1.2	9
4	Control of particulate nitrate air pollution in China. Nature Geoscience, 2021, 14, 389-395.	5.4	139
5	US COVID-19 Shutdown Demonstrates Importance of Background NO ₂ in Inferring NO _x Emissions From Satellite NO ₂ Observations. Geophysical Research Letters, 2021, 48, e2021GL092783.	1.5	38
6	Source sector and fuel contributions to ambient PM _{2.5} and attributable mortality across multiple spatial scales. Nature Communications, 2021, 12, 3594.	5.8	199
7	Improved Mechanistic Model of the Atmospheric Redox Chemistry of Mercury. Environmental Science & Technology, 2021, 55, 14445-14456.	4.6	65
8	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. Atmospheric Chemistry and Physics, 2021, 21, 13973-13996.	1.9	57
9	Effect of changing NO _x lifetime on the seasonality and long-term trends of satellite-observed tropospheric NO ₂ columns over China. Atmospheric Chemistry and Physics, 2020, 20, 1483-1495.	1.9	135
10	Global modeling of cloud water acidity, precipitation acidity, and acid inputs to ecosystems. Atmospheric Chemistry and Physics, 2020, 20, 12223-12245.	1.9	33
11	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1846-1861.	1.2	30
12	Rates of Wintertime Atmospheric SO ₂ Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6630-6649.	1.2	12
13	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: air quality model assessment using observations of sulfate oxygen isotopes in Beijing. Atmospheric Chemistry and Physics, 2019, 19, 6107-6123.	1.9	137
14	The Role of Clouds in the Tropospheric NO _x Cycle: A New Modeling Approach for Cloud Chemistry and Its Global Implications. Geophysical Research Letters, 2019, 46, 4980-4990.	1.5	51
15	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. Geophysical Research Letters, 2019, 46, 2974-2983.	1.5	25
16	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. Geophysical Research Letters, 2019, 46, 14826-14835.	1.5	28
17	A two-pollutant strategy for improving ozone and particulate air quality in China. Nature Geoscience, 2019, 12, 906-910.	5.4	493
18	Heterogeneous N ₂ O ₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4345-4372.	1.2	103

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19	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. Bulletin of the American Meteorological Society, 2018, 99, 547-567.	1.7	62
20	Nitrogen oxides in the global upper troposphere: interpreting cloud-sliced NO ₂ observations from the OMI satellite instrument. Atmospheric Chemistry and Physics, 2018, 18, 17017-17027.	1.9	25
21	Using CALIOP to constrain blowing snow emissions of sea salt aerosols over Arctic and Antarctic sea ice. Atmospheric Chemistry and Physics, 2018, 18, 16253-16269.	1.9	23
22	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,368.	1.2	49
23	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,897.	1.2	21
24	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11225-11237.	1.2	33
25	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8110-8115.	3.3	118
26	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7771-7796.	1.2	71
27	NO _x Lifetime and NO _y Partitioning During WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9813-9827.	1.2	52
28	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. Environmental Science & Technology, 2017, 51, 5650-5657.	4.6	131
29	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. Geophysical Research Letters, 2017, 44, 7069-7078.	1.5	60
30	Subtropical subsidence and surface deposition of oxidized mercury produced in the free troposphere. Atmospheric Chemistry and Physics, 2017, 17, 8999-9017.	1.9	22
31	Origin of oxidized mercury in the summertime free troposphere over the southeastern US. Atmospheric Chemistry and Physics, 2016, 16, 1511-1530.	1.9	68
32	Constraints from observations and modeling on atmosphere-surface exchange of mercury in eastern North America. Elementa, 2016, 4, .	1.1	4
33	Oxidation of mercury by bromine in the subtropical Pacific free troposphere. Geophysical Research Letters, 2015, 42, 10,494.	1.5	57
34	Progress on Understanding Atmospheric Mercury Hampered by Uncertain Measurements. Environmental Science & Technology, 2014, 48, 7204-7206.	4.6	90
35	A characterization model with spatial and temporal resolution for life cycle impact assessment of photochemical precursors in the United States. International Journal of Life Cycle Assessment, 2009, 14, 313-327.	2.2	50
36	Life cycle assessment of residential heating and cooling systems in four regions in the United States. Energy and Buildings, 2008, 40, 503-513.	3.1	110