

Manish Shrivastava

List of Publications by Year in descending order

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45
papers

3,036
citations

257450

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67
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3755
citing authors

#	ARTICLE	IF	CITATIONS
1	Tight Coupling of Surface and In-Plant Biochemistry and Convection Governs Key Fine Particulate Components over the Amazon Rainforest. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 380-390.	2.7	11
2	Rapid growth of anthropogenic organic nanoparticles greatly alters cloud life cycle in the Amazon rainforest. <i>Science Advances</i> , 2022, 8, eabj0329.	10.3	19
3	Novel Application of Machine Learning Techniques for Rapid Source Apportionment of Aerosol Mass Spectrometer Datasets. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 932-942.	2.7	6
4	The striking effect of vertical mixing in the planetary boundary layer on new particle formation in the Yangtze River Delta. <i>Science of the Total Environment</i> , 2022, 829, 154607.	8.0	11
5	Effective radiative forcing of anthropogenic aerosols in E3SM version 1: historical changes, causality, decomposition, and parameterization sensitivities. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 9129-9160.	4.9	16
6	Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. <i>Environmental Science & Technology</i> , 2021, 55, 4357-4367.	10.0	12
7	Analysis of secondary organic aerosol simulation bias in the Community Earth System Model (CESM2.1). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8003-8021.	4.9	9
8	Modeling Volatility-Based Aerosol Phase State Predictions in the Amazon Rainforest. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2910-2924.	2.7	8
9	A computationally efficient model to represent the chemistry, thermodynamics, and microphysics of secondary organic aerosols (simpleSOM): model development and application to α -pinene SOA. <i>Environmental Science Atmospheres</i> , 2021, 1, 372-394.	2.4	3
10	Process-based and observation-constrained SOA simulations in China: the role of semivolatile and intermediate-volatility organic compounds and OH levels. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16183-16201.	4.9	15
11	Modeling the Size Distribution and Chemical Composition of Secondary Organic Aerosols during the Reactive Uptake of Isoprene-Derived Epoxydiols under Low-Humidity Condition. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3247-3257.	2.7	7
12	Precursors and Pathways Leading to Enhanced Secondary Organic Aerosol Formation during Severe Haze Episodes. <i>Environmental Science & Technology</i> , 2021, 55, 15680-15693.	10.0	28
13	Aerosols in the E3SM Version 1: New Developments and Their Impacts on Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001851.	3.8	68
14	A Near-Explicit Mechanistic Evaluation of Isoprene Photochemical Secondary Organic Aerosol Formation and Evolution: Simulations of Multiple Chamber Experiments with and without Added NO_x . <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1161-1181.	2.7	16
15	Photolysis Controls Atmospheric Budgets of Biogenic Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2020, 54, 3861-3870.	10.0	36
16	Exploration of oxidative chemistry and secondary organic aerosol formation in the Amazon during the wet season: explicit modeling of the Manaus urban plume with GECKO-A. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5995-6014.	4.9	9
17	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25344-25351.	7.1	49
18	Model bias in simulating major chemical components of $\text{PM}_{2.5}$ in China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12265-12284.	4.9	25

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19	Impact of biomass burning aerosols on radiation, clouds, and precipitation over the Amazon: relative importance of aerosol–cloud and aerosol–radiation interactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13283-13301.	4.9	59
20	New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002266.	3.8	15
21	Mie Scattering Captures Observed Optical Properties of Ambient Biomass Burning Plumes Assuming Uniform Black, Brown, and Organic Carbon Mixtures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11406-11427.	3.3	23
22	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2377-2411.	3.8	168
23	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. <i>Nature Communications</i> , 2019, 10, 1046.	12.8	131
24	Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4323-4351.	3.8	87
25	Organosulfates in aerosols downwind of an urban region in central Amazon. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1546-1558.	3.5	40
26	Global long-range transport and lung cancer risk from polycyclic aromatic hydrocarbons shielded by coatings of organic aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1246-1251.	7.1	185
27	Airborne observations reveal elevational gradient in tropical forest isoprene emissions. <i>Nature Communications</i> , 2017, 8, 15541.	12.8	53
28	The effect of gas-phase polycyclic aromatic hydrocarbons on the formation and properties of biogenic secondary organic aerosol particles. <i>Faraday Discussions</i> , 2017, 200, 143-164.	3.2	27
29	Improvements to the WRF-Chem 3.5.1 model for quasi-hemispheric simulations of aerosols and ozone in the Arctic. <i>Geoscientific Model Development</i> , 2017, 10, 3661-3677.	3.6	26
30	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , 2017, 55, 509-559.	23.0	548
31	Sensitivity of biogenic volatile organic compounds to land surface parameterizations and vegetation distributions in California. <i>Geoscientific Model Development</i> , 2016, 9, 1959-1976.	3.6	34
32	Model representations of aerosol layers transported from North America over the Atlantic Ocean during the Two-Column Aerosol Project. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9814-9848.	3.3	15
33	Sensitivity analysis of simulated SOA loadings using a variance-based statistical approach. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 499-519.	3.8	10
34	Global transformation and fate of SOA: Implications of low-volatility SOA and gas-phase fragmentation reactions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4169-4195.	3.3	123
35	Modeling particle nucleation and growth over northern California during the 2010 CARES campaign. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12283-12313.	4.9	25
36	A new WRF-Chem treatment for studying regional-scale impacts of cloud processes on aerosol and trace gases in parameterized cumuli. <i>Geoscientific Model Development</i> , 2015, 8, 409-429.	3.6	38

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37	Evaporation Kinetics of Laboratory-Generated Secondary Organic Aerosols at Elevated Relative Humidity. <i>Environmental Science & Technology</i> , 2015, 49, 243-249.	10.0	63
38	Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10013-10060.	4.9	62
39	Implications of low volatility SOA and gas-phase fragmentation reactions on SOA loadings and their spatial and temporal evolution in the atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3328-3342.	3.3	66
40	Modeling aerosols and their interactions with shallow cumuli during the 2007 CHAPS field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1343-1360.	3.3	30
41	Transport and mixing patterns over Central California during the carbonaceous aerosol and radiative effects study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1759-1783.	4.9	67
42	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7647-7687.	4.9	94
43	Synergy between Secondary Organic Aerosols and Long-Range Transport of Polycyclic Aromatic Hydrocarbons. <i>Environmental Science & Technology</i> , 2012, 46, 12459-12466.	10.0	110
44	Modeling organic aerosols in a megacity: comparison of simple and complex representations of the volatility basis set approach. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6639-6662.	4.9	230
45	Evaporation kinetics and phase of laboratory and ambient secondary organic aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2190-2195.	7.1	354