

# C Venkataraman

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

5,984  
citations

393982

19  
h-index

315357

38  
g-index

40  
all docs

40  
docs citations

40  
times ranked

7038  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bounding the role of black carbon in the climate system: A scientific assessment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5380-5552.	1.2	4,319
2	Residential Biofuels in South Asia: Carbonaceous Aerosol Emissions and Climate Impacts. Science, 2005, 307, 1454-1456.	6.0	567
3	Source influence on emission pathways and ambient PM <sub>2.5</sub> pollution over India (2015–2050). Atmospheric Chemistry and Physics, 2018, 18, 8017-8039.	1.9	148
4	Characterization of emissions from South Asian biofuels and application to source apportionment of carbonaceous aerosol in the Himalayas. Journal of Geophysical Research, 2010, 115, .	3.3	98
5	Aerosol Optical Depth Over India. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3688-3703.	1.2	73
6	Outdoor air pollution in India is not only an urban problem. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28640-28644.	3.3	69
7	Global health burden of ambient PM <sub>2.5</sub> and the contribution of anthropogenic black carbon and organic aerosols. Environment International, 2022, 159, 107020.	4.8	68
8	Premature Mortality Due to PM <sub>2.5</sub> Over India: Effect of Atmospheric Transport and Anthropogenic Emissions. GeoHealth, 2019, 3, 2-10.	1.9	63
9	New methodology for estimating biofuel consumption for cooking: Atmospheric emissions of black carbon and sulfur dioxide from India. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	58
10	General circulation model estimates of aerosol transport and radiative forcing during the Indian Ocean Experiment. Journal of Geophysical Research, 2004, 109, .	3.3	53
11	Aerosols cause intraseasonal short-term suppression of Indian monsoon rainfall. Scientific Reports, 2017, 7, 17347.	1.6	48
12	Climate co-benefits of air quality and clean energy policy in India. Nature Sustainability, 2021, 4, 305-313.	11.5	42
13	Fingerprint of volcanic forcing on the ENSO–Indian monsoon coupling. Science Advances, 2020, 6, .	4.7	39
14	Origin and properties of soluble brown carbon in freshly emitted and aged ambient aerosols over an urban site in India. Environmental Pollution, 2019, 254, 113077.	3.7	35
15	GCM simulations of anthropogenic aerosol-induced changes in aerosol extinction, atmospheric heating and precipitation over India. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2938-2955.	1.2	34
16	Aerosol lofting from sea breeze during the Indian Ocean Experiment. Journal of Geophysical Research, 2006, 111, .	3.3	32
17	Origin of surface and columnar Indian Ocean Experiment (INDOEX) aerosols using source- and region-tagged emissions transport in a general circulation model. Journal of Geophysical Research, 2008, 113, .	3.3	30
18	Global and national assessment of the incidence of asthma in children and adolescents from major sources of ambient NO <sub>2</sub> . Environmental Research Letters, 2021, 16, 035020.	2.2	25

#	ARTICLE	IF	CITATIONS
19	A Wet Electrostatic Precipitator (WESP) for Soft Nanoparticle Collection. <i>Aerosol Science and Technology</i> , 2012, 46, 750-759.	1.5	23
20	Disentangling sea-surface temperature and anthropogenic aerosol influences on recent trends in South Asian monsoon rainfall. <i>Climate Dynamics</i> , 2019, 52, 2287-2302.	1.7	20
21	Absorbing aerosol influence on temperature maxima: An observation based study over India. <i>Atmospheric Environment</i> , 2020, 223, 117237.	1.9	15
22	COVID-19 lockdown closures of emissions sources in India: Lessons for air quality and climate policy. <i>Journal of Environmental Management</i> , 2022, 302, 114079.	3.8	15
23	Droplet-Phase Synthesis of Nanoparticle Aerosol Lipid Matrices with Controlled Properties. <i>Aerosol Science and Technology</i> , 2011, 45, 811-820.	1.5	12
24	A single-step aerosol process for in-situ surface modification of nanoparticles: Preparation of stable aqueous nanoparticle suspensions. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 167-174.	5.0	12
25	Source identification of aerosols influencing atmospheric extinction: Integrating PMF and PSCF with emission inventories and satellite observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
26	Modelling size and structure of nanoparticles formed from drying of submicron solution aerosols. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	10
27	Breaking out of the Box: India and Climate Action on Short-Lived Climate Pollutants. <i>Environmental Science &amp; Technology</i> , 2016, 50, 12527-12529.	4.6	10
28	Absorbing aerosols and high-temperature extremes in India: A general circulation modelling study. <i>International Journal of Climatology</i> , 2021, 41, E1498.	1.5	10
29	Influence of aerosol radiative effects on surface temperature and snow melt in the Himalayan region. <i>Science of the Total Environment</i> , 2022, 810, 151299.	3.9	10
30	Temporal variability in emission category influence on organic matter aerosols in the Indian region. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	7
31	<sup>1</sup> H NMR structural signatures of source and atmospheric organic aerosols in India. <i>Chemosphere</i> , 2022, 301, 134681.	4.2	6
32	Aerosol Synthesis of Lipid Nanoparticles: Relating Crystallinity to Simulated Evaporation Rates. <i>Aerosol Science and Technology</i> , 2012, 46, 569-575.	1.5	5
33	Pulse-Heat Aerosol Reactor (PHAR): Processing Thermolabile Biomaterials and Biomolecules into Nanoparticles with Controlled Properties. <i>Aerosol Science and Technology</i> , 2013, 47, 383-394.	1.5	4
34	Engineering of layered, lipid-encapsulated drug nanoparticles through spray-drying. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 178-185.	2.5	3
35	Impact of Circular, Waste-Heat Reuse Pathways on PM <sub>2.5</sub> -Air Quality, CO <sub>2</sub> Emissions, and Human Health in India: Comparison with Material Exchange Potential. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9773-9783.	4.6	3
36	An Analysis of the Aerosol Lifecycle Over India: COALESCE Intercomparison of Three General Circulation Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	3

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37	Estimation of critical supersaturation solubility ratio for predicting diameters of dry particles prepared by air-jet atomization of solutions. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 172-181.	5.0	2
38	Estimation of real-time brown carbon absorption: An observationally constrained Mie theory-based optimization method. <i>Journal of Aerosol Science</i> , 2022, 166, 106047.	1.8	2
39	Spatial heterogeneity of aerosol induced rapid adjustments on precipitation response over India: a general circulation model study with ECHAM6-HAM2. <i>Climate Dynamics</i> , 0, , 1.	1.7	0
40	Global health burden of PM2.5, black and organic carbon aerosols. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0