Chandra Venkataraman - List of Publications

150. Sengupta, S., P. J. Adams, S. Balasubramanian, S. Dey, B. Krishna, R. Subramanian, S. Thakrar, **C. Venkataraman,** S. Guttikunda (2025) The need for a new air quality modelling paradigm in India, submitted.

149. Tiwari, D., **Venkataraman, C.**, Anand, A., Maji, S., Mondal, A., Balasubramanian, S. (2025) High Risk from Coincidence of Extremes in Particulate Pollution and Heat in India, submitted.

148. Tibrewal, K., **C. Venkataraman**, G. Habib, H. Phuleria, A.K. Gupta, G. Gupta, T. S. Kapoor, S. Khan, J. Kumari, C. Navinya, et al. (2025) Speciated Multipollutant Generator (SMoG)-India-COALESCE: an emission estimation and management system for climate and air quality assessment, under preparation.

147. Navinya C., Kapoor T. S., G. Anurag, **C. Venkataraman**, H. C. Phuleria (2024) Carbonaceous aerosol emissions from secondary lighting sources: Emission factors and optical properties, Atmospheric Pollution Research, 15 (12), 102321, https://doi.org/10.1016/j.apr.2024.102321.

146. Navinya C., Kapoor T. S., G. Anurag, **C. Venkataraman**, P. Manwani, S. Lonkar, K. Yadav, R. S. Raman, J. Kumari, Md. S. Khan, G. Habib, H.C. Phuleria (2025) Underestimated Carbonaceous Aerosol Emissions from Residential Heating Sector in India, under preparation.

145. Navinya C., Kapoor T. S., **C. Venkataraman**, H. C. Phuleria, R. Chakrabarty (2025) Brown Carbon Light Absorption over India: Brown Carbon Light Absorption over India: Status and Needs for Discerning Climate Impacts, *Environmental Science & Technology – Air*, under revision.

144. Sharma, A., Mondal, A., Dhasmana, M., Tiwari, D., **Venkataraman, C.** (2025) Particulate air pollution enhanced dry and moist heat stress during the 2015 heatwave in India, submitted.

143. Sarkar, T., T.S. Kapoor, Y S Mayya, **C. Venkataraman**, S Anand. (2024). Near-source dispersion and coagulation parameterization: Application to biomass burning emissions. *Atmospheric Environment X*, 22, 100266, https://doi.org/10.1016/j.aeaoa.2024.100266.

142. Debbarma, S., S. Bajrang, K. Gupta, **C. Venkataraman** and H.C. Phuleria (2025). Emission factors and optical properties of air pollutants from creeping and low-speed vehicles, under preparation.

141. Manwani, P., C.**Venkataraman** and H. C. Phuleria (2025) Impact of Open-Field Biomass Burning on Regional Air Quality in Northern India, *Journal of Environmental Science*, under review

140. Manwani, P., T.S. Kapoor, A. Gupta, S. Duhan, J. S. Laura, R. Sharma, P. Lokhande, D. Haswani, R. Sunder Raman, **C. Venkataraman,** and H. C. Phuleria (2025) Seasonal variation

and chemical characterization of fine particulate matter and the influence of episodic events at regional background locations in northern India. Environmental Research, under preparation.

139. Manwani, P., N. Lekinwala, M. Bhushan, **C. Venkataraman**, H. C. Phuleria (2025) Unravelling the Nexus of Emission Sources and Meteorology on Regional PM2.5: A Comprehensive Analysis Using Source Apportionment Model and Machine Learning for Effective Pollution Mitigation Strategies, under preparation.

138. **Venkataraman, C**., Anand, A., Maji, S., Barman, N., Tiwari, D., Muduchuru, K., Sharma, A., Gupta, G., Bhardwaj, A., Haswani, D., Pullokaran, D., Yadav, K., Raman, R.S., Imran, M., Habib, G., Kapoor, T.S., Gupta, A., Sharma, R., Phuleria, H.C., Qadri, A.M., Singh, G.K., Gupta, T., Dhandapani, A., Kumar, R.N., Mukherjee, S., Chatterjee, A., Rabha, S., Saikia, B.K., Saikia, P., Ganguly, D., Chaudhary, P., Sinha, B., Roy, S., Muthalagu, A., Qureshi, A., Lian, Y., Pandithurai, G., Prasad, L., Murthy, S., Duhan, S.S., Laura, J.S., Chhangani, A.K., Najar, T.A., Jehangir, A., Kesarkar, A.P., Singh, V., (2024) Drivers of PM2.5 episodes and exceedance in India: A synthesis from the COALESCE network, *J. Geophysical Research: Atmospheres*, 129, e2024JD040834. https://doi.org/10.1029/2024JD040834.

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