

Dr. Rohit Srivastava

List of Publications

Peer-reviewed Journal

1. *Enhanced dust influx to South Atlantic sector of Antarctica during the late-20th century: Causes and contribution to radiative forcing*, C. M. Laluraj, W. Rahaman, M. Thamban, and **Rohit Srivastava** *Journal of Geophysical Research: Atmospheres*, 125, e2019JD030675, DOI: [10.1029/2019JD030675](https://doi.org/10.1029/2019JD030675), 2020 (Impact Factor : 3.63)
2. *Impact of dynamical and microphysical schemes on black carbon prediction in a regional climate model over India*, **Rohit Srivastava** and S. H. Bran *Environmental Science and Pollution Research*, 25, 15, 14844–14855, DOI: [10.1007/s11356-018-1607-0](https://doi.org/10.1007/s11356-018-1607-0), 2018 (Impact Factor : 2.741)
3. *Investigation of optical and radiative properties of aerosols during an intense dust storm: A regional climate modeling approach*, S. H. Bran, S. Jose and **Rohit Srivastava**, *Journal of Atmospheric and Solar-Terrestrial Physics*, 168, 21–31, DOI: [10.1016/j.jastp.2018.01.003](https://doi.org/10.1016/j.jastp.2018.01.003), 2018 (Impact Factor: 1.326) (Student is 1st and corresponding author).
4. *Investigation of PM_{2.5} mass concentration over India using a regional climate model*, S. H. Bran, and **Rohit Srivastava** *Environmental Pollution*, 224, 484–493, DOI: [10.1016/j.envpol.2017.02.030](https://doi.org/10.1016/j.envpol.2017.02.030), 2017 (Impact Factor : 4.839) (Student is 1st and corresponding author).
5. *Trends in aerosol optical properties over South Asia*, **Rohit Srivastava**, *International Journal of Climatology*, 37, 1, 371 – 380, DOI: [10.1002/joc.4710](https://doi.org/10.1002/joc.4710), 2017 (Impact Factor : 3.609).
6. *Spatio-temporal variations of black carbon and optical properties in regional climate model*, **Rohit Srivastava**, and S. H. Bran, *International Journal of Climatology* 37, 3, 1432–1443, DOI: [10.1002/joc.4787](https://doi.org/10.1002/joc.4787), 2017 (Impact Factor : 3.609).
7. *Long-term changes in the within-season temporal profile of Southwest Monsoon over Western India*, S. Bhandari, **Rohit Srivastava** and V. Mehta, *Journal of Earth System Science*, 125, 7, 1313–1319, DOI: [10.1007/s12040-016-0736-4](https://doi.org/10.1007/s12040-016-0736-4), 2016 (Impact Factor : 0.858).
8. *Absorbing and scattering aerosols over the source region of biomass burning emissions: Implications in the assessment of optical and radiative properties*, A. Singh, **Rohit Srivastava**, N. Rastogi, D. Singh, *Atmospheric Environment*, 127, 61–68, DOI: [10.1016/j.atmosenv.2015.12.029](https://doi.org/10.1016/j.atmosenv.2015.12.029), 2016 (Impact Factor : 3.459).

9. *Observational Challenges in Evaluating Climate Models*, M. Collins, K. AchutaRao, K. Ashok, S. Bhandari, A. K. Mitra, S. Prakash, **Rohit Srivastava**, A. Turner, *Nature Climate Change*, 3 (11), 940–941, DOI:10.1038/nclimate2012, 2013 (Impact Factor : 17.184).

Publications from Thesis work:

10. *Aerosol mixing over urban region: Radiative effects*, **Rohit Srivastava**, S. Ramachandran, and T.A. Rajesh *Quarterly Journal of Royal Meteorological Society*, DOI: 10.1002/qj.2769, 2016 (Impact Factor : 3.669).
11. *Mixing states of aerosols over four environmentally distinct atmospheric regimes in Asia: Coastal, urban, and industrial locations influenced by dust*, S. Ramachandran, and **Rohit Srivastava** *Environmental Science and Pollution Research*, 23, 11109-11128, DOI: 10.1007/s11356-016-6254-8, 2016 (Impact Factor : 2.760).
12. *The mixing state of aerosols over the Indo-Gangetic Plain and its impact on radiative forcing*, **Rohit Srivastava** and S. Ramachandran, *Quarterly Journal of the Royal Meteorological Society*, 139, 137–151, DOI: 10.1002/qj.1958, 2013 (Impact Factor : 3.669).
13. *Influences of external vs. core-shell mixing on aerosol optical properties at various relative humidities*, S. Ramachandran and **Rohit Srivastava**, *Environmental Science: Processes & Impacts*, 15, 1070–1077, DOI:10.1039/C3EM30975D, 2013 (Impact Factor : 2.401).
14. *Aerosol optical depth trends over different regions of India*, S. Ramachandran, Sumita Kedia, and **Rohit Srivastava**, *Atmospheric Environment*, 49, 338–347, 10.1016/j.atmosenv.2011.11.017, 2012 (Impact Factor : 3.459).
15. *Aerosol absorption over Bay of Bengal during winter : Variability and Sources*, Sumita Kedia, S. Ramachandran, T. A. Rajesh and **Rohit Srivastava**, *Atmospheric Environment*, 54, 738–745, DOI: 10.1016/j.atmosenv.2011.12.047, 2012 (Impact Factor : 3.459).
16. *Contribution of natural and anthropogenic aerosols to optical properties and radiative effects over an urban location*, S. Ramachandran, **Rohit Srivastava**, Sumita Kedia and T.A. Rajesh, *Environmental Research Letters*, 7 (034028), DOI:10.1088/1748-9326/7/3/034028, 2012 (Impact Factor : 4.134).
17. *Aerosol radiative forcing deduced from observations and models over an urban location and sensitivity to Single Scattering Albedo*, **Rohit Srivastava**, S. Ramachandran, T. A. Rajesh and S. Kedia, *Atmospheric Environment*, 45, 6163–6171, DOI: 10.1016/j.atmosenv.2011.08.015, 2011 (Impact Factor : 3.459).

Publications from Other work:

18. *Impact of drought on vegetation carbon storage in arid and semi-arid regions*, Shouvik Jha, and **Rohit Srivastava**, *Remote Sensing Applications: Society and Environment*, 11, 22–29, doi : 10.1016/j.rsase.2018.04.013, 2018 (Student is 1st and corresponding author)

Peer-reviewed conference proceedings :

- *Investigation of an intense dust storm event over Arabian sea*, Sherin Hassan Bran, S. Jose, and **Rohit Srivastava**, Indian Aerosol Science and Technology Association Bulletin, 22, (1–2), ISSN: 0971-4510, 317–319, 2016.
- *Aerosol Mixing States over Central Himalayan Region*, **Rohit Srivastava**, Indian Aerosol Science and Technology Association Bulletin, 21, (1–2), ISSN: 0971-4570, 67–68, 2014.
- *Spatial Variation of Black Carbon and its climatic implication over western and northern Indian regions*, **Rohit Srivastava**, and Sherin Hassan Bran, Indian Aerosol Science and Technology Association Bulletin, 21, (1–2), ISSN: 0971-4570, 548–549, 2014.
- *Aerosol variability over south-western Himalayan region*, Mudit Mishra, Mohd. Kamran, S. Sood and **Rohit Srivastava**, Indian Aerosol Science and Technology Association Bulletin, 21, (1–2), ISSN: 0971-4570, 409–410, 2014.
- *Aerosol optical properties during biomass burning period of south-western Himalayan forest region*, **Rohit Srivastava** and Satyendra Bhandari, *Vayumandal*, 38 (1–4), 2012.
- *Aerosol optical and radiative properties during intense dust storm of March 2012 : A 4- D characterization*, **Rohit Srivastava** and S. M. Bhandari, Indian Aerosol Science and Technology Association Bulletin, 20, (1–2), ISSN: 0971-4570, 535-537, 2012.
- *Aerosol Radiative Forcing over an urban location: Observations and Model estimates*, **Rohit Srivastava** and S. Ramachandran, Indian Aerosol Science and Technology Association Bulletin, 19, (1–2), ISSN: 0971-4570, 387–389, 2010.

P.S : The name of corresponding author is underlined.