


Name: Dr. Manoj Kumar

Designation:	Senior Scientist	
DP No. and Name:	3.01, Atmospheric Science & Metrology	
DU No. and Name:	3.0, Environmental Science & Biomedical Metrology Division	
Email:	Manoj.kum@nplindia.org	
Date of Joining CSIR-NPL:	27.06.2019	
Phone (office)	011-45608265	
Mobile (optional)		

Research Area/ Interest

- Continuous Emission Monitoring System (CEMS) and Continuous Ambient Air Quality Monitoring System (CAAQMS)
- Carbon sequestration & modeling,
- Interaction between air pollutants and plants and their impact on each other,
- Species distribution modelling

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
B.Sc.	Environment & Water Management	A.N. College, Patna	2004
M.Sc.	Environmental Science	Banaras Hindu University, Varanasi	2006
Ph.D.	Environmental Science	Banaras Hindu University, Varanasi	2012

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Senior Scientist	CSIR – National Physical Laboratory, Delhi	03.12.2019	Till date	CEMS and CAAQMS, Carbon sequestration & modeling, Air pollution & their impact on vegetations
Scientist	CSIR – National Physical Laboratory, Delhi	27.06.2019	02.12.2019	CEMS and CAAQMS, Carbon sequestration
Scientist	CSIR-Institute of Himalayan Bioresource Technology, Palampur	03.12.2013	26.06.2019	Carbon dynamics of temperate ecosystem of western Himalaya

Post-doc	Jawaharlal Nehru University, Delhi	26.08 2013	02.12.2013	Vegetation diversity and ground water
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No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books Chapter	Total
06	05	09	02	22

Selected Publications

1. Snehlata, Rajlaxmi, A., & **Kumar, M.*** (2021). Urban tree carbon density and CO₂ equivalent of National Zoological Park, Delhi. *Environmental monitoring and assessment*, 193(12), 1-13. (Impact factor 2.513).
2. **Kumar, M.*** (2016). Impact of climate change on crop yield and role of model for achieving food security. *Environmental monitoring and assessment*, 188(8), 1-14. (Impact factor 2.513).
3. **Kumar M.***, Singh R.P., Panigrahy S., Raghubanshi A.S., (2014). Carbon Density and Accumulation in Agroecosystem of Indo-Gangetic Plains and Vindhyan highlands, India. *Environmental Monitoring & Assessment*, 186, 4971-4985. (Impact factor 2.513)
4. Singh H., Pathak P., **Kumar M.**, Raghubanshi A.S. (2011). Carbon sequestration potential of Indo-Gangetic agroecosystem soils. *Tropical Ecology*, 52(2), 223-228. (Impact factor 2.513)
5. **Kumar M.**, Mukherjee N., Sharma G.P., Raghubanshi A.S. (2010). Land use patterns and urbanization in the holy city of Varanasi, India: a scenario. *Environmental Monitoring and Assessment*, 167, 417-422. DOI 10.1007/s10661-009-1060-0. (Impact factor 2.513)
6. Sharma G.P., **Kumar M.**, Raghubanshi A.S., (2010). Urbanization and road-use determines *Calotropis procera* distribution in the central highlands, India. *Ambio*, 39, 194–197. (Impact factor 5.129)

Patents

Nil

Current Activities

(Not more than 100 words)

- Establishment of Type Testing, Calibration and Certification Facility for Online Continuous Emission Monitoring System (OCEMS) and Continuous Ambient Air Quality Monitoring System (CAAQMS)
- Study on the impact of air pollutants on different plant species and vice versa
- Assessing carbon sequestration of different urban ecosystems through ground measurement, remote sensing and modelling

Honour(s)/Award(s)/ Fellowship(s)

- Start-Up Research Grant for “Young Scientist” by SERB, DST, New Delhi
- Dr. D.S. Kothari postdoctoral fellowship by UGC, New Delhi
- Senior Research fellowship by Council for Scientific and Industrial Research (CSIR), New Delhi,
- UGC- NET Qualified for Assistant professorship in Environmental Science
- Fellow of Tropical Ecology

Contributions to AcSIR

- Ph.D. students: 02 (pursuing)
- Members of different Doctoral Advisory Committee

Membership of Professional Societies/ Institutions

- Lifetime member of Indian Association for Air Pollution Control Delhi Chapter, New Delhi
- Lifetime member of Society of Metrology Society of India, New Delhi
- Member of Indian Academy for Mathematical Modeling and Simulation, Indian Institute of Kanpur, Kanpur, India.
- Member of International Society for Tropical Ecology, Banaras Hindu University, Varanasi India

Any other Information

(Not more than 100 words)

Member of Editorial Board of journals:

- Annals of Agricultural & Crop Sciences
(<http://austinpublishinggroup.com/agriculture-crop-sciences/editorialBoard.php>)
- Journal of Agricultural Farming (<http://www.opensciencepublications.com/journal-of-agricultural-farming/editorial-board-12/>)