

Dr. Amit Kumar

Position	Assistant Professor Department of Environmental Sciences Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar-470003 Madhya Pradesh, India	
Research ID	https://dhsgsu.irins.org/profile/370018 https://www.scopus.com/authid/detail.uri?authorId=57214420127 https://scholar.google.com/citations?user=F8B0oKcAAAAJ&hl=en https://www.researchgate.net/profile/Amit-Kumar-1111	
Education	Ph.D. in Environmental Sciences Jawaharlal Nehru University, New Delhi M.Phil. in Environmental Sciences Jawaharlal Nehru University, New Delhi M.Sc. in Environmental Sciences Jawaharlal Nehru University, New Delhi B.Sc. in Maths (Hons.), Physics, Chemistry Veer Kunwar Singh University, Bihar	
Appointments Held	Assistant Professor Department of Environmental Sciences Dr.Harisingh Gour Vishwavidyalaya, Sagar, MP Consultant Chintan Environmental Research and Action Group Lajpat Nagar, New Delhi – 110024 Research Associate Environment Pollution Analysis Lab, Bhiwadi, Rajasthan – 301019 Assistant Professor (Contractual) Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi Pool Scientist (CSIR) School of Environmental Sciences Jawaharlal Nehru University, New Delhi National Post Doctoral Fellow Radio and Atmospheric Science Division CSIR-National Physical Laboratory, New Delhi Assistant Professor (Contractual) Department of Environmental Sciences Central University of Jammu, Bagla Suchani, J&K	April 2013 – Present June 2022 – March 2023 Sept 2021 – May 2022 Jan 2022 – July 2022 Sep 2018 – Sep 2021 July 2016 – July 2018 Jan 2016 – June 2016

	Assistant Professor (Contractual) Sri Aurobindo College, University of Delhi, New Delhi	Sep 2015 – Dec 2015
	Senior Research Fellow School of Environmental Sciences Jawaharlal Nehru University, New Delhi	July 2011 – July 2015
	Junior Research Fellow School of Environmental Sciences Jawaharlal Nehru University, New Delhi	July 2009 – July 2011
Research Specializations	Air Pollution and its Impact on Human Health Aerosol and Gaseous Pollutants Chemistry Atmospheric Chemistry, Meteorology and Extreme Events Climate Change and Sustainability Waste management, Circular Economy and Environmental Policy	
Honours/ Awards	Pool Scientist, CSIR, India (2018) National Post Doctoral Fellowship, SERB – DST, India (2016) International Travel Grant, CSIR (2014) Best Presentation Award, BRNS-AEACI, BARC, India (2014) UGC-NET, Lectureship in Environmental Sciences (2012) CSIR-JRF in Earth, Ocean, Atmospheric & Planetary Sciences (2009)	
Professional Societies	American Geophysical Union IASTA (Indian Aerosol Science and Technological Association) Association of Environmental Analytical Chemistry of India, BARC. Academic counsellor M.Sc. IGNOU, Zakir Hussain College, Delhi	
Journal Reviewer	Atmospheric Environment Science of the Total Environment Environmental International Ecotoxicology and Environmental Safety International Journal of Hospitality Management Air Quality, Atmosphere and Health Environmental Science and Pollution Research International Journal of Environmental Health Research Archives of Environmental Contamination and Toxicology	

Research Projects

1. *Chemical speciation and optical properties of aerosols in the coastal regions of eastern India.*

Funding Agency: Council of Scientific and Industrial Research

Period: 2018-2021

Amount: 29.7 Lakh, Role in Project: PI

2. *Organic Molecular compositions and isotopic composition of aerosols at the varying altitudes of Himalayan region*

Funding Agency: SERB. DST

Period: 2016-2018

Amount: 19.2 Lakh, Role in Project: PI

Peer-Reviewed Publications

Total Impact Factor: 100.75, Citation: 672, h-index: 13, i10-index: 15

[22] N Kumar, S Chourasiya, **A Kumar***, B Nath. Assessment of Ozone and Nitrogen Oxides Variations in Urban Region of Patna, India. **Environmental Claims Journal** (2022)

[21] **A Kumar***, S Singh, N Kumar, N Singh, KK Kumar, AK Mishra, S Chourasiya, HS Kushwaha. Seasonal abundance and source attribution of carbonaceous aerosols at different altitude of mountainous locations in Uttarakhand Himalaya. **Aerosol Science and Engineering** 5 (2021), 233–246.

[20] K Bali, **A Kumar***, S Chourasiya. Emission estimates of trace gases (VOC and NO_x) and their reactivity during biomass burning period (2003-2017) over Northeast India. **Journal of Atmospheric Chemistry** 78, (2021), 17-34.

[19] **A Kumar***, S Singh, N Kumar, N Singh, K Kumar, S Chourasiya. Assessment of carbonaceous fractions in ambient aerosols at high altitude and low land urban locations of Kumaon Province, Indian Himalaya. **SN Applied Science** (2020), 3:83.

[18] R Kumar, P Kashyap, R Kumar, A Pandey, **A Kumar**, K Kumar. Cancer and non-cancer health risk assessment associated with exposure to non-methane hydrocarbons among roadside vendors in Delhi, India. **Human and Ecological Risk Assessment** 26 (2020) 1285-1299.

[17] **A Kumar***, K Bali, S Singh, M Naja, AK Mishra. Estimates of reactive trace gases (NMVOCs, CO and NO_x) and their ozone forming potentials during forest fire over Southern Himalayan region. **Atmospheric Research** 227, (2019), 41-51.

[16] P Kashyap, **A Kumar**, R Kumar, K Kumar. Biogenic and anthropogenic isoprene emissions in the subtropical urban atmosphere of Delhi. **Atmospheric Pollution Research** 10 (5), (2019) 1691-1698.

[15] P Kashyap, **A Kumar**, K Kumar. BTEX Concentrations and Associated Health Risks at Urban Vegetative Sites in Delhi, India. **Environmental Claims Journal** 31, (2019) 349-365.

[14] S Panigotra, S Chourasiya, **A Kumar***. Source identification and ozone forming potential of VOCs in the two urban cities of India. **Indian Journal of Environmental Protection** 40 (2019) 579-583.

- [13] **A Kumar***, D Singh, K Kumar, BB Singh, VK Jain. Distribution of VOCs in urban and rural atmospheres of subtropical India: Temporal variation, source attribution, ratios, OFP and risk assessment. **Science of the Total Environment** 613–614 (2018) 492–501.
- [12] G Kour, **A Kumar***. An Observation of ambient levels and reactivity of VOCs in the atmosphere of Agra, India. **International Journal of Scientific Research Letters**. 1 (2018) 10-16.
- [11] **A Kumar***, D Singh, K Anandam, K Kumar, VK Jain. Dynamic interaction of trace gases (VOCs, ozone, and NO_x) in the rural atmosphere of sub-tropical India. **Air Quality, Atmosphere and Health**, 10 (2017) 885-896.
- [10] U Mina..., **A Kumar**, A. Kumar. Effect of elevated temperature and carbon dioxide on maize genotypes health index. **Ecological Indicators** 105 (2017) 292-302.
- [9] P Pancholi, **A Kumar**, DS Bikundia, S Chourasiya. An observation of seasonal and diurnal behavior of O₃-NO_x relationships and local/regional oxidant (OX=O₃+NO₂) levels at a semi-arid urban site of western India. **Sustainable Environment Research** 28 (2017) 79-89.
- [8] D Singh, **A Kumar**, K Kumar, U Mina, BB Singh, VK Jain. Statistical modeling of O₃, NO_x, CO, PM_{2.5}, VOCs and noise levels in commercial complex and associated health risk assessment in an academic institution. **Science of the Total Environment** 572 (2016) 586-594.
- [7] D Singh, **A Kumar**, BB Singh, VK Jain. Meteorological parameters impact on spatio-temporal dynamics of VOCs after CNG implementation in transport sector in Delhi. **Journal of Environmental Science, Toxicology and Food Technology** 10(9) (2016) 86-94.
- [6] D Singh, **A Kumar**, BP Singh, K Anandam, M Singh, U Mina, K Kumar, VK Jain. Spatial and temporal variability of VOCs and its source estimation during rush/non-rush hours in ambient air of Delhi, India". **Air Quality, Atmosphere and Health** 9 (2015) 483–493.
- [5] **A Kumar***, D Singh, BP Singh, M Singh, K Anandam, K Kumar, VK Jain (2014) Spatial and temporal variability of surface ozone and nitrogen oxides in urban and rural ambient air of Delhi-NCR, India. **Air Quality, Atmosphere and Health** 8 (2014) 391–399.
- [4] **A Kumar***, BP Singh, M Punia, D Singh, K Kumar, VK Jain. Determination of volatile organic compounds and associated health risk assessment in residential homes and hostels within an academic institute, New Delhi, **Indoor Air** 24 (2014) 474-483.
- [3] BP Singh, **A Kumar**, D Singh, M Punia, K Kumar, VK Jain. An assessment of ozone levels, UV radiation and their occupational health hazard estimation during photocopying operation. **Journal of Hazardous Materials** 275 (2014) 55-62.
- [2] M Punia, S Nain, **A Kumar**, BP Singh, A Prakash, K Kumar, VK Jain. Analysis of temperature variability over north-west part of India for the period 1970–2000, **Natural Hazards** 75 (2014) 935-952.
- [1] **A Kumar***, BP Singh, M Punia, D Singh, K Kumar, VK Jain. Assessment of indoor air concentrations of VOCs and their associated health risks in the library of Jawaharlal Nehru University, New Delhi, **Environmental Science and Pollution Research** 21 (2013) 2240-2248.

Book Chapter	[1] D Singh, A Prakash, A Kumar , BP Singh, M Punia, Sanyogita, H Sharma, K Kumar, VK Jain. Ambient noise levels after CNG implementation in transport sector in Delhi (2013) Springer Capital Publishing Company 978-93- 81891-06-3
Proceedings	[5] A. Kumar, AK Mishra, SN Singh, K Kumar, VK Jain (2016) An assessment of aromatic hydrocarbons in foggy atmosphere of Delhi. Proceedings of Indian Aerosol Science and Technology Association (IASTA) ISSN 09714510 [4] S Singh, AK Mishra, A Kumar, S Chandra, S. Josh (2016) Forest fires and aerosol radiative forcing over Himalayan region. Proceedings of Indian Aerosol Science and Technology Association (IASTA) ISSN 09714510 [3] S Jose, AK Srivastava, AK Mishra, A Kumar, S Chandra, S. Singh (2016) Optical properties of aerosols over Delhi during clear, hazy, foggy and dusty conditions and associated aerosol direct radiative forcing. Proceedings of Indian Aerosol Science and Technology Association (IASTA) ISSN 09714510 [2] S Chandra, AK Mishra, A Kumar, S Jose, S Tiwari, S Singh (2016) Temporal variation of atmospheric pollutants at Central Delhi, India. Proceedings of Indian Aerosol Science and Technology Association (IASTA) ISSN 09714510 [1] AK Mishra, S Singh, A Kumar, S Chandra, S Jose, Y Rudich, I Koren (2016) Addressing the gaps between ground- and satellite-derived aerosol properties. Proceedings of Indian Aerosol Science and Technology Association (IASTA) ISSN 09714510
Training Courses/ Conferences	[8] Attended two weeks inter- disciplinary refresher course on “Environment and Human Health” from 28 March to 11 April, 2022 sponsored by Ministry of Education, New Delhi, India [7] Attended training of “Journal Citation Reports (JCR) Certification Series” organized by Clarivate Analytics, June (2021) [6] Attended One Month “Faculty Induction Program” Held at Ramanujan College, University of Delhi From 26th June To 24th July, 2020 Sponsored By Ministry of Human Resources and Development, New Delhi, India [5] Attended One Week “Science Leadership Workshop” From 22nd June To 28th June, 2020 Organized By Central University Of Punjab, Bathinda, India. [4] Attended One Week “Faculty Development Programme” on “Open-Source Tools for Research” Held At Ramanujan College, University Of Delhi From 8th June To 17th June, 2020 Sponsored By Ministry Of Human Resources And Development, New Delhi, India. [3] Attended One Week “8th School on Analytical Chemistry (SAC-8) held at CSIR-NML, Jamshedpur from 14th April to 21th April, 2014 organized by BRNS-AEACI, BARC, Mumbai, India. [2] Attended One and Half Month training course on “Wastewater treatment and Environment Management” undertaken at NTPC, Badarpur, New Delhi. [1] Participation in workshop on “Accelerator Mass Spectrometry” at Inter-University Accelerator Centre, New Delhi.

Presentations

- [9]. Comparative assessment of trace gases (O₃ and NO_x) in rural and urban ambient atmosphere. National Conference on Environmental Pollutants: Impact Assessment and Remediation, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India. 29 March 2017.
- [8] An assessment of VOC, O₃ and NO_x in the rural atmosphere of National Capital Region, India. School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India Science Day 28 February 2017
- [7] Identification of Polycyclic Aromatic Hydrocarbons (PAHs) in aerosol by using Synchronous Fluorescence Spectroscopic Method. NCEPIAR 18 March 2016.
- [6] Temporal variability of Volatile organic compounds and their ozone forming potential during wintertime in ambient atmosphere of Delhi. NCEPIAR 18 March 2016.
- [5] Quantification of Volatile Organic Compounds in Indoor and Outdoor air of Central Library in JNU, New Delhi" in the International seminar on Management of Water, Energy and Bio-resources in Changing Climate Regime: Emerging Issues and Environmental Challenges at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India. 7-9 February (2013)
- [4] Assessment of Volatile Organic Compounds in Various Indoor Environments and their Associated Health Risks" in the International Workshop on Climate change Impacts and Societal Adaptation at Central University of Rajasthan, Ajmer, India. November 6-8 (2013)
- [3] Determination of volatile organic compounds in indoor and outdoor air of residences in University campus, Delhi" in the National seminar on Environmental Pollution and Bioremediation at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India. 28-29 December (2011)
- [2] Diurnal Variation of Ozone Levels in Academic Hostel in Delhi" in the International seminar on Management of Water, Energy and Bio-resources in Changing Climate Regime: Emerging Issues and Environmental Challenges at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India. 7-9 February (2013)
- [1] A Study on the Effect of Temperature Rise and Fertilizer Consumption on Agriculture Productivity in UP, India" in the international seminar on Management of Water, Energy and Bio-resources in Changing Climate Regime: Emerging Issues and Environmental Challenges at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India. 7-9 February (2013)