

CURRICULUM VITAE

Vishnu Sreejith Moorchilot

Assistant Professor

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Citations:134

H index: 8

i10 index: 7

Total publications: 18 (First author: 10; Co-author: 8)

Education

Till date-2019 (December)	Mahatma Gandhi University Ph.D. in Environmental Sciences (Thesis submitted (June 2025))
2019-2017	University of Calicut M.Sc. in Environmental Sciences CGPA: 8.15 / 10
2013-2016	University of Calicut B.Sc. in Chemistry CGPA: 3.7 / 4

Research Experience

2022-2020 - University Grants Commission - Junior research fellow

2024-2023 - University Grants Commission - Senior research fellow

Teaching Experience:

Till date-2025 (January): Assistant Professor (on Contract) at College of Climate Change and Environmental Science, Kerala Agricultural University, Thrissur, India.

Reviewer:

Springer Nature publications:

Scientific Reports
Discover Public Health
Aerobiologica
Environmental Geochemistry

Elsevier publications:

Atmospheric Pollution Research Energy
for sustainable development.

Awards and Distinctions

- Selected for **India's Second Winter Arctic Expedition (Ny-Ålesund, Norway, March 3–28, 2025)**
- **Best oral presentation (scientist)** award in 34th Kerala Science Congress (2022) under the environmental sciences and wildlife category
- **1st rank in M.Sc. Environmental Science** [(CCSS) June 2018] - University of Calicut.
- **UGC- NET in Environmental Science** (November 2017), **UGC NET with JRF** in Environmental Science (July 2018).
- **Calicut University Merit Scholarship** (2017 – 2018)
- **Best outgoing student** at the college (UAE Chapter) award (2013-2016 batch).
- **SADGUNA AWARD 2015**: University of Calicut for outstanding achievement in arts, sports and studies.
- **Senior Under Officer** of 1 COY 30(K) BN NCC (National Cadet Corps (Army-Wing) from 2014-2016.

Research interests

- Indoor air quality
- Indoor dust
- Microplastics
- Contaminants of emerging concern,
- Role of indoor air quality in COVID-19 transmission
- Precipitation chemistry
- Avifauna
- Membrane treatment for water purification

Instrument Exposure

- *Confocal Raman Microscopy with AFM (WITech)*
- *ATR-FTIR Spectrophotometer (Shimadzu)*
- *LC-q-ToF MS (Waters)*

- *HPLC (Shimadzu)*
- *GC-MS (Thermo Scientific)*
- *IC (Thermo Scientific)*
- *ICP-MS (Thermo Scientific)*
- *Direct Mercury Analyzer (Milestone)*
- *UV-Visible spectrophotometer (Shimadzu)*
- *Q-Track hand-held air quality monitor (TSI)*

Software Skills

Origin

R

Jamovi

SPSS

CB Dock2

Language Skills:

Malayalam: *Native*

English (Fluent)

List of publications in International Journals

First author:

[1] V.S. Moorchilot, K. Aradhana, M. Varsha, M. Cyrus, C. Aravindakumar, U.K. Aravind, ATR-FTIR and LC-Q-ToF-MS analysis of indoor dust from different micro-environments located in a tropical metropolitan area, *Science of The Total Environment*, 783 (2021) 147066. [2] V.S. Moorchilot, J.R. Thomas, C. Aravindakumar, U.K. Aravind, Characterisation of atmospheric particulate matter over a site in southern Kerala, India-using ATR-FTIR and confocal micro-raman spectroscopy, *Materials Today: Proceedings*, 33 (2020) 1410-1414.

[3] V.S. Moorchilot, U.K. Aravind, C.T. Aravindakumar, Occurrence of azo-dyes, plasticizers, and PAH-bound microplastics: an emerging source and sink for hazardous compounds in indoor environments?, *Air Quality, Atmosphere & Health*, 17 (2024) 425-438.

[4] V.S. Moorchilot, U.K. Aravind, S.P.M. Menacherry, C.T. Aravindakumar, Single-particle analysis of atmospheric aerosols: Applications of Raman spectroscopy, *Atmosphere*, 13 (2022) 1779.

[5] V.S. Moorchilot, P. Arun, U.K. Aravind, C.T. Aravindakumar, Human exposure to methyl and butyl parabens and their transformation products in settled dust collected from urban, semi-urban, rural, and tribal settlements in a tropical environment, *Environmental Research*, 242 (2024) 117805.

[6] V.S. Moorchilot, H. Louis, A. Haridas, P. Praveena, S. Arya, A.S. Nair, U.K. Aravind, C. Aravindakumar, Bisphenols in indoor dust: A comprehensive review of global distribution, exposure risks, transformation, and biomonitoring, *Chemosphere*, 370 (2025) 143798.

[7] V.S. Moorchilot, J.R. Thomas, N.K. Khalid, A. Varghese, U.K. Aravind, C.T. Aravindakumar, Implosion-demolitions: impact on the local environment in a tropical humid Ramsar site located in southwestern India, *Air Quality, Atmosphere & Health*, 15 (2022) 1243-1261. [8] V.S. Moorchilot, U.K. Aravind, C.T. Aravindakumar, Structure Fires and Toxic Fallout: Investigating the exposure hazards through inhalable dust analysis, *Environmental Pollution and Management*, (2025).

[9] K.S. Aradhana, V.S. Moorchilot, T. Joo, C.T. Aravindakumar, U.K. Aravind, Spider Webs as Passive Monitors of Microplastic and Its Copollutants in Indoor Environments, *ACS omega*, 10 (2024) 4418-4426.

[10] V.S. Moorchilot, U.K. Aravind, C.T. Aravindakumar, Airborne Microplastics: Sources, Characteristics, Dynamics, and Health Implications, in: *Microplastics in Environment*, CRC Press, pp. 130-148.

Co-author:

[11] J.R. Thomas, M.V. Sreejith, U.K. Aravind, S. Sahu, P. Shetty, M. Swarnakar, R. Takale, G. Pandit, C. Aravindakumar, Outdoor and indoor natural background gamma radiation across Kerala, India, *Environmental Science: Atmospheres*, 2 (2022) 65-72.

[12] J. Praveen, P. Nameer, A. Jha, A. Aravind, K. Dilip, D. Karuthedathu, G. Tom, H. Mavelikara, H. Mannar, J. Palot, *Kerala Bird Atlas 2015–2020: Features, outcomes and implications of a citizen-science project*, *Current Science*, 122 (2022) 298-309.

[13] K. Nejumal, M.V. Sreejith, D. Dineep, U.K. Aravind, C. Aravindakumar, Identification and ecological hazard analysis of contaminants of emerging concerns (CECs) in water bodies located in a coastal metropolitan environment, *Water, Air, & Soil Pollution*, 232 (2021) 434.

- [14] A. Venkumar, A.M. Azimov, G.M. Iztleuov, V.S. Moorchilot, U.K. Aravind, M.I. Sataev, V.J. Koshy, C.T. Aravindakumar, Temporal Assessment of Phosphorus Speciation in a Model Ramsar Lake System in Asia, *Hydrology*, 11 (2024) 70.
- [15] S.P. Nandan, V.S. Moorchilot, A. Asokan, S. Turabdzhanyov, U. Mirzarakhmatov, L. Rakhimova, C. Aravindakumar, U.K. Aravind, Coir based biofiltration system for enhanced removal of water pollutants, *Next Sustainability*, 4 (2024) 100045.
- [16] J. Athamanakath, V.S. Moorchilot, L. Raveendran, S. VP, S. Jayakumar, Preliminary investigation into mud-puddling behavior in *Appias* spp. (Albatross Butterflies) at Aralam Wildlife Sanctuary, India, *Environment Conservation Journal*, 25 (2024) 500-508.
- [17] M.M. Hirash, Y. Prasad, M. Vishnu Sreejith, A dead specimen of Tropical Shearwater *Puffinus bailloni* from Puthiyappa beach, Kozhikode district, Kerala.
- [18] Naveen S Lal, V.S. Moorchilot, C.T. Aravindakumar, Usha K Aravind , Indoor dust as a mercury reservoir: A case study on indoor microenvironments located in Ernakulam district, Kerala state, *India Air Pollution and Health*, 10 (4), 525-542