

Dr. R. Mohanraj
Professor

Department of Environmental Science and Management
Bharathidasan University, Tiruchirappalli - 620024, India
Phone: +91 431 2407072 (Extn: 640)
Mobile +91 9487158054.
Email: mohan@bdu.ac.in



Dr. R. Mohanraj is a Professor of Environmental Sciences at Bharathidasan University, Tiruchirappalli, India. His primary research interest lies on Environmental Impact and Risk Assessment, Urban Air Pollution, Hydro-Geochemistry, Ecological Restoration, Forest Carbon Dynamics, and Corporate Environmental Management. As a principal investigator he had completed five major externally funded research projects [projects funded by DST, UGC and DRDO (Govt. of India)]; and presently carrying out two major externally funded projects including DST-SERB (CRG) and an All-India coordinated project funded by ICFRE (MoEF&CC, GoI). He had also completed 25 Environmental Impact Assessment/Consultancy projects as a Principal Investigator and Co-Investigator. He had successfully guided 7 PhD scholars in Environmental Science and Environmental Management.

Prior to 2004, he had worked as a research fellow in Salim Ali Centre for Ornithology and Natural History (Autonomous center of MoEF, Govt. of India) and as a Senior Research Associate in Amrita University, Coimbatore. In the year 2004, he was awarded Young Scientist Fellowship from Department of Science and Technology (Government of India). In 2012, he was awarded Commonwealth Academic Fellowship and visited University of Birmingham, U.K for 3 months. In 2013, he was awarded UGC Raman Postdoctoral Fellowship and visited Pennsylvania State University, USA for one year (2013-2014).

Dr. Mohanraj had authored and co-authored about 85 research articles and chapters in peer reviewed international and Indian journals and edited volumes. He had authored and edited 8 books of Indian and International publishers. He had presented more than 100 research and review papers in international and national level seminars /symposia/conferences including COP meetings as an invited speaker. He had also organized/coordinated a number national level conferences/webinars/refresher courses, academic events and outreach programs.

Scopus Author ID: <https://www.scopus.com/authid/detail.uri?authorId=14050406100>
Research Gate: <https://www.researchgate.net/profile/Rangaswamy-Mohanraj>
Google Scholar: <https://scholar.google.com/citations?hl=en&user=ZIBUh3oAAAAJ>
ORCID: <https://orcid.org/0000-0003-4288-5030>

Education

- **MSc. M.Phil. PhD Environmental Science** (Bharathiar University, Coimbatore, India)

Awards / Distinctions

- **Raman Postdoctoral Fellow**; Visited Pennsylvania State University, PA, USA for one year (Jan 2014 – Dec 2014)
- **Commonwealth Academic Fellow**; Visited University of Birmingham UK (**September** 2012 – January 2013)
- Received **Young Scientist Fellowship** from **Department of Science and Technology** (Government of India) during 2004
- **Associate Editor**: Frontiers in Environmental Science
- **Editorial Board Member**: *Nature Scientific Reports*
- PLOS ONE (Guest Editor)

Professional Experience

Position & Period	Employer	Nature of work
Professor August 16, 2021 Onwards Professor & Head July 1, 2019 - August 16, 2021 Associate Professor & Head August 10, 2018 - June30, 2019 Associate Professor July 1, 2017 – August 9, 2018 Associate Professor & Head July 1, 2016 – June 30, 2017 Asst. Professor & Head July 1, 2015 – June 30, 2016 Asst. Professor February 2005 – June 2015	Department of Environmental Science and Management, Bharathidasan University, Tiruchirappalli - 620024, India	Research and Teaching; Research Advisor; Guided and successfully completed 7 PhD Scholars; Completed five externally funded research projects – presently carrying out two research projects funded by national agencies; Completed more than 25 environmental consultancy projects
Postdoctoral Fellow (UGC Raman Postdoctoral Fellowship); Jan 2014- Dec 2014	Pennsylvania State University USA	Research
Commonwealth Academic Fellow Oct 2012- Dec 2012	University of Birmingham UK	Research
Visiting Faculty, BIM, Trichy (2009-10, 2017-18)	Bharathidasan Institute of Management, Tiruchirappalli	Teaching - Corporate Environmental Management
Project Scientist (DST, Govt. of India) <u>December 2004 - February 2005</u>	DST, Govt. of India, Research station: - PSG College, Civil Aerodrome Post, Coimbatore – 641014,India	Principal investigator of the research project (DST Project), Execution of the research project, scientific writing. Lectures in select topics.
Senior Research Associate <u>May 2004 – December 2004</u>	Centre for Environmental Studies, Amrita Deemed University, Ettimadai, Coimbatore –64105, India	Preparing research projects for fund raising, Curriculum development and teaching
Senior Research Fellow <u>April 2004 - Jan1997</u>	Salim Ali Centre, Coimbatore	Investigator in EIA projects; completed 10 EIA projects

Other Academic/Admin Positions		
Nodal Officer	Since 2018	Swachh Bharat Summer Internship Programme
Expert Member – District level Environmental Expert	June 2017 - June 2020	Coimbatore District Admin.
Member - Senate <u>July 2015 - June 30, 2017</u> <u>Aug 10, 2018 - Aug 16, 2021</u>	Bharathidasan University, Tiruchirappalli - 620024	Academic
Member – Curriculum content committee March 2017 Onwards	IGNOU- New Delhi	Curriculum Development & Course Writing
Member - Academic Council May 2016 - 2018	AVVM Sir Pushpam College, Poondi	Curriculum Development
Member - Academic Council ; May 2016 - 2018	Srimad Andavar Arts and Science College, Trichy	Curriculum Development
Member - Governing Council; May 2019 - 2021	SRC College, Tiruchirappalli	Curriculum Development
Member - Academic Council; May 2020 - 2023	EGS Pillay College, Nagapattinam	Curriculum Development
Member - Academic Council; May 2022 - 2025	Nehru Memorial College, Puthnampatti, Trichy	Curriculum Development
Member - Governing Council; May 2022 - 2025	JJ College of Arts and Science, Pudukkottai	Curriculum Development
Convener Board of Studies <u>Jul 2015-June 2017; Aug18-Aug 2021</u>	Department of Environmental Management, Bharathidasan University	Curriculum Development
Member - Board of Studies 2012 onwards	Environmental Sciences Bharathidasan University	Curriculum Development
Member - Board of Studies 2008 -2011; 2019 - 2022	PSG College of Arts and Science	Curriculum Development
Member - Board of Studies 2017--2019 ; 2019 - 2022	Bishop Heber College , Trichy	Curriculum Development
Member - Board of Studies 2019 - 2022	Tamil University, Thanjavur	Curriculum Development
Member - Board of Studies 2021 - 2024	Gandhigram Rural Institute (Deemed University)	Curriculum Development
Member - Board of Studies 2021 - 2022	Holly Cross College, Trichy	Curriculum Development
Member - Board of Studies 2022 - 2024	Alagappa University, Karaikudi	Curriculum Development
Member - Board of Studies 2025 - 2027	Bharathiar University, Coimbatore	Curriculum Development
Member – Research Advisory Group; 2024 - 2025	Institute of Forest Genetics and Tree Breeding (ICFRE, MoEF&CC Govt. of India) Coimbatore	Research Advisory

Externally funded Research Projects (On-Going and Completed)

- 1 Title of project Speciation and mobility of metals in urban soils and aquatic ecosystem
Year 2004 – 2007 (Completed)
Funding Agency Department of Science & Technology, Govt. of India
Total Grant Rs.7,80,000/-
- 2 Title of project Airborne particle bound polycyclic aromatic hydrocarbons and exposure assessment in human population using biomarkers in select urban locations
Year 2008 – 2010 (Completed)
Funding Agency Defence Research and Development Organization, Govt. of India
Total Grant Rs. 10,80,000/-
- 3 Title of project Carbon fluxes and sinks in Kolli hills, Eastern Ghats of Tamilnadu with emphasis on carbon pool in above ground biomass, Litter, Woody Debris and Soils
Year 2009 – 2012 (Completed)
Funding Agency University Grants Commission, Govt. of India
Total Grant Rs. 9,80,000/-
- 4 Title of project Screening carbon sequestration efficient forest trees and pulp wood species under elevated CO₂, coupled with enhanced acidic and Ozone conditions
Year 2012 – 2015 (Completed)
Funding Agency Department of Science & Technology, Govt. of India
Total Grant Rs.38,47,258
- 5 Title of project Real Time air pollution modeling and dissemination of location based information using mobile devices (Co-Principal Investigator)
Year 2013– 2014 (Completed)
Funding Agency Department of Science & Technology, Govt. of India
Total Grant Rs.16,00,000/-
- 6 Title of project Ecological restoration of *Prosopis juliflora* degraded lands by vegetative remediation
Year 2020 – 2025 (On-Going)
Funding Agency Indian Council of Forest Research Education, (MoEF&CC, Govt. of India)
Total Grant Rs. 20,15,200/-
- 7 Title of project Determining CO₂ sequestration efficient native tree species under elevated CO₂ levels coupled with climate and ozone stress
Year 2022 – 2025 (On-Going)
Funding Agency DST-SERB Core Research Grant
Total Grant Rs.34,27,809/-
- 8 Title of project Environmental Impact Analysis of Pollutants
Year 2021 – 2025(On-Going)
Funding Agency UGC - RUSA 2.0
Total Grant Rs. 4,50,000/year + Project Fellow

Environmental Impact Assessment (EIA)/ Consultancy projects completed/on-going as an Investigator/Expert/Advisor

Completed

- Rapid Environmental Impact Assessment of Moyar ultimate stage hydroelectric project, Tamilnadu Electricity Board, Moyar. India (1997). (Funded by TNEB); Role: Co-Investigator
- Environmental Impact Assessment of Human Biologicals Institute (Rabies vaccine production industry of National Dairy Development Board), Ooty. TN, India (1999). (Funded by NDDB); Role: Co- Investigator
- Rapid Environmental Impact Assessment of Ultimate Alloys , Coimbatore, (2000). (Funded by UAL); Role: Co- Investigator
- Rapid Environmental Impact Assessment of Sanees alloys P.Ltd. Coimbatore, (2000), (Funded by SANEES); Role: Co- Investigator
- Environmental Impact Assessment of UTKAL ALMUNIA INTERNATIONAL (Proposed bauxite mine) on biological environment, Orissa, India (2001). (Funded by UTKAL); Role: Co- Investigator
- Impact Assessment of The Mangalore- Coimbatore LPG Pipeline (2002). (Funded by GAIL); Role: Co- Investigator
- Ecological Management Plan For Eco-Tourism Project, Pathiramanal, Kerala (2003). (Funded by KTDC); Role: Co- Investigator
- Study on the Migratory Birds in the Environs of the Proposed Barh Super Thermal Power Project, National Thermal Power Corporation Limited, Patna, India (2003). (Funded by NTPC); Role: Co- Investigator
- An assessment of micro level environmental status of Noyyal River basin, Tamilnadu, India. (Completed 2004, Role: Co-Investigator), Funded by World Bank, executed by Public works Department, TN); Role: Co- Investigator
- Creation Of Online MIS Platform For Collation and Dissemination Of Water Quality Information (with Akara Research Technologies, Chennai), 2016 - Role: Environmental Expert/Advisor
- Baseline Study: Impact Assessment of Manathattai Sand Quarry on Biological Environment- Flora And Fauna, 2019; Role: Principal Investigator
- Baseline Study: Impact Assessment of Thirumanur Sand Quarry on Biological Environment- Flora And Fauna, 2019; Role: Principal Investigator
- Water Audit for PepsiCo - Varun Beverages Limited, Mamandur Village, Kancheepuram - Role: Principal Investigator (July 2019; Feb 2021).
- VARANASI Sewage Treatment Plant (50 MLD) PROJECT PRIVATE LIMITED under Namami Gange programme on a PPP basis (National Mission for Clean Ganga, UP Jal Nigam Ltd and Essel Infra) – Project Engineer: M/s. Mahindra consulting engineers (MACE), Chennai (On-going) - Role: Environmental Expert/Advisor for MACE
- Environmental Performance Evaluation of MAK Green Incinerator of Capacity 50TPD at Kodungaiyur, Greater Chennai Corporation - Project Client: MAK Controls and Systems Pvt Ltd; Role: Principal Investigator (August 2022 - December 2022)
- Air Quality (PM, Sox, Nox, Benzene), Noise Level and water quality Assessment in Vettar and Vennar river of Thiruvarur and Nagapatinam Districts under climate adaptation program funded by Asian Development Bank, Executed by PWD, Govt. of Tamilnadu - Role: Principal Investigator; April 2017 onwards – April 2022
- Indian Economic Zone, Bangladesh – Project Engineer: M/s. Mahindra consulting engineers (MACE), Chennai (On-going) - Role: Environmental Expert/Advisor for MACE (2022-23)

On-going

- Air Quality Impact Assessment of Sand Quarrying Operations in Trichy, Karur, Thanjavur, Thiruvaraur, Vellur and Ariyalur Districts (PWD -WRD, Govt. of Tamilnadu) – Role: Principal Investigator
- Water Quality Assessments (TNIAM, Vennar - Vettar Basin etc PWD -WRD, Govt. of Tamilnadu); Role: Principal Investigator
- Eco-Restoration of Minnakkal, Vaiyapori, Koothpar and Samudram Tanks/Lakes - PWD WRD - CM Announcement Scheme - Assessment of pollution and preparation of pilot scale model for solution of treatment of sewage/waste water discharged into the lake, PWD Govt. of Tamilnadu (2020-2024); Role: Principal Investigator

Publications in Peer-Reviewed Indexed International Journals

- Akil Prasath R.V and **Mohanraj R** (2024) *In situ* bioaccumulation of metals by *Prosopis juliflora* and its detoxification potential at the metal contaminated sites. *Science of the Total Environment* 951, 175715 <https://doi.org/10.1016/j.scitotenv.2024.175715>
- Akil Prasath R.V, **Mohanraj R**, Balaramdas K.R., Jhony Kumar Tagore A, Raja P.b, Rajasekaran A. (2024) Characterization of carbon fluxes, stock and nutrients in the sacred forest groves and invasive vegetation stands within the human dominated landscapes of a tropical semi-arid region. *Nature Scientific Reports* 14 (2), <https://doi.org/10.1038/s41598-024-55294-0>
- **Mohanraj R**, Akil Prasath R.V, Balaramdas K.R., Amjad K. T. (2024) Bioavailable Fractions of Heavy Metals in the Road Dust during Infrastructure Construction at Urban Coimbatore and its Potential Health Implications, India. *Environmental Geochemistry and Health*. 46, DOI :10.1007/s10653-024-02040-0
- Jincy Jose, **Mohanraj R**, Shamnamol G.K, Greeshma K.P (2024) A short review on natural precursors-plant-based fluorescent carbon dots for the targeted detection of metal ions. *Sustainable Chemistry for the Environment*. 7, <https://doi.org/10.1016/j.scenv.2024.100114>.
- Jincy Jose, **Mohanraj R**, Shamnamol G.K, Greeshma K.P, Jaya Mary Jacob (2024) Turn-Off fluorescence sensor for the detection of ferric ion in water using green synthesized *Wrightia coccinea* carbon quantum dot. *Journal of Fluorescence*, <https://doi.org/10.1007/s10895-024-03760-3>
- Mu. Ramkumar, R. Nagarajan, Athira Pramod, Anupam Sharmad, P. Gopika, AL Fathima, G. Sugavanam, A. Manobalaji, **R. Mohanraj** (2024) Assessment of heavy metal contamination of sediments in popular tourist beaches of the Kerala State, Southern India: Implications on textural and mineralogical affinities and mitigation. *Geosystems and Geoenvironment* 3 100244 <https://doi.org/10.1016/j.geogeo.2023.100244>
- Manjula Menon, **R. Mohanraj**, V. B Joemon, R.V. Akil Prasath, (2023) Bioaccumulation of heavy metals in a gastropod species at the Kole wetland agroecosystem, a Ramsar site. *Journal of Environmental Management* (329) doi.org/10.1016/j.jenvman.2022.11702
- Manjula Menon, **R. Mohanraj**, K. R. Divya and N. P. Mohammedali (2023) Assessment of Heavy Metals in Agroecosystems of the Cauvery Delta Region, South India Using a Focal Species: The *Pavocristatus*. *Proc. Zool. Soc.* <https://doi.org/10.1007/s12595-023-00494-1>
- Manjula Menon, **R. Mohanraj** (2022) Diversity and community structure of the agroecosystem avifauna in the Cauvery delta region, South India. *Community Ecology* 23:365–376, doi.org/10.1007/s42974-022-00114-6

- **Mohanraj R**, Akil Prasath, R.V. and Rajasekaran A (2022) Assessment of vegetation, soil nutrient dynamics and heavy metals in the *Prosopis juliflora* invaded lands at semi-arid regions of Southern India. *CATENA* <https://doi.org/10.1016/j.catena.2022.106374>
- Manjula Menon, **R. Mohanraj**, W. Sujata (2021). Monitoring of Neonicotinoid Pesticides in Water-Soil Systems along the Agro-Landscapes of the Cauvery Delta Region, South India. *Bulletin of Environmental Contamination and Toxicology*. <https://doi.org/10.1007/s00128-021-03233-4>
- Manjula Menon, **R. Mohanraj** (2020). Dynamics of Farmland Birds in Traditional Agroecosystems: The Value of Countryside Elements in Avian Conservation. *Proc Zool Soc* . <https://doi.org/10.1007/s12595-020-00333-7>
- Manjula Menon, **R. Mohanraj** (2018) Toxicity of Neonicotinoid Pesticide Imidacloprid and Impediment of Ecosystem Services. *Russian Agricultural Sciences*, 44: 171–176.
- R. Seenivasan, V. Prasath and **R. Mohanraj** (2016) Sodic soil reclamation in a semi-arid region involving organic amendments and vegetative remediation by *Casuarina equisetifolia* and *Erianthus arundinaceus*. *Environmental Processes*, 3: 431- 449. DOI 10.1007/s40710-016-0155-1.
- Manjula Menon, **R. Mohanraj** (2016) Temporal and spatial assemblages of invasive birds occupying the urban landscape and its gradient in a southern city of India. *Journal of Asia-Pacific Biodiversity* 9: 74-84.
- Arivoli, **R. Mohanraj**, R. Seenivasan (2015) Application of vertical flow constructed wetland in treatment of heavy metals from pulp and paper industry wastewater. *Environmental Science and Pollution Research*, DOI: 10.1007/s11356-015-4594-4.
- Manjula Menon, **R. Mohanraj**, M. Prashanthi Devi (2015) Biomonitoring of heavy metals in feathers of eleven common bird species in urban and rural environments of Tiruchirappalli, India. *Environmental Monitoring and Assessment*, 187:267, DOI 10.1007/s10661-015-4502-x
- S. Dhanakumar, G. Solaraj and **R. Mohanraj** (2015) Heavy metal partitioning in sediments and bioaccumulation in commercial fish species of three major reservoirs of river Cauvery delta region, India. *Ecotoxicology and Environmental Safety*, 113: 145–151.
- R. Seenivasan, V. Prasath and **R. Mohanraj** (2014) Restoration of sodic soils involving chemical and biological amendments and phytoremediation by *Eucalyptus camaldulensis* in a semiarid region. *Environmental Geochemistry and Health* (DOI: 10.1007/s10653-014-9674-8)
- Manjula M, Prashanthi Devi M and **Mohanraj R** (2014) Avifaunal Richness and Abundance along an Urban Rural Gradient with Emphasis on Vegetative and Anthropogenic Attributes in Tiruchirappalli, India. *Landscape Research* DOI: 10.1080/01426397.2014.910294
- S. Dhanakumar, K. Rutharvel Murthy, G. Solaraj and R. Mohanraj (2013) Heavy metal fractionation in the surface sediments of River Cauvery at Estuarine region, Southeast coast of India. *Archives of Environmental Contamination and Toxicology*, 65:14–23.
- Manjula Menon and **Mohanraj R** and M. Prashanthi Devi (2011) Where are the conservationists? *Current Science*, Vol.101, No.11, p 1406-1407
- **R. Mohanraj**, S. Dhanakumar, G. Solaraj (2012) Polycyclic Aromatic Hydrocarbons bound to PM2.5 in urban Coimbatore, India with emphasis on source Apportionment. *The Scientific world journal* 1-8, doi:10.1100/2012/980843
- Murthy R. K, Dhanakumar S, Solaraj G, **Mohanraj R**, Jawahar Raj and Kumaraswamy (2012) Assessment of Groundwater Quality in flood plains of upper Palar River, India. *Chinese Journal of Geochemistry* 31:015–023

- **R. Mohanraj**, G. Solaraj, S. Dhanakumar (2011) Fine particulate phase PAHs in ambient atmosphere of Chennai metropolitan city, India. *Environmental Science and Pollution Research*, 18:764–771
- **Mohanraj R**, Solaraj G, Dhanakumar S (2011) PM 2.5 and PAH Concentrations in Urban Atmosphere of Tiruchirappalli, India, *Bulletin of Environmental Contamination and Toxicology*, Vol. 87:330–335
- **Mohanraj R**, Saravanan J, Dhanakumar S. (2011) Carbon stock in Kolli forests, Eastern Ghats, India with emphasis on aboveground biomass, litter, woody debris and soils. *iForest*, Vol 4: 61-65.
- **Mohanraj R**. (2010) Air Pollution and Climate Change Effects on Forest Ecosystems. *Current Science* Vol. 99 (7): 871-872.
- G. Solaraj, Dhanakumar S, Rutharvel Murthy K, **Mohanraj R**. (2010) Water quality in select regions of Cauvery delta River basin, southern India, with emphasis on monsoonal variation, *Environmental Monitoring and Assessment*. Vol. 166:435–444..
- S. Madhavakrishnan, K.Manickavasagam, R. Vasanthkumar, K. Rasappan, **R. Mohanraj** and Pattabhi S (2009) Adsorption of Crystal Violet Dye from Aqueous Solution Using Ricinus Communis Pericarp Carbon as an Adsorbent. *E-Journal of Chemistry*, Vol. 6(4): 1109-1116.
- **Mohanraj R** and Azeez P A (2005) Urban Development and Particulate Air Pollution in Coimbatore City, India. *International Journal of Environmental Studies*, Vol. 62(1): 69-78 (Taylor and Francis, UK).
- **Mohanraj R**, Azeez P A and Priscilla T (2004) Heavy metals in air borne particulate matter of Coimbatore. *Archives of Environmental Contamination and Toxicology*, Vol. 46 (2): 162-167
- **Mohanraj R** and P A Azeez (2004) Polycyclic Aromatic Hydrocarbons In PM 10 Of Urban And Suburban Coimbatore, India, *Fresenius Environmental Bulletin*. Vol. 13 (4): 332-335 (Parlar Scientific, Germany)
- **Mohanraj R** and Azeez P A (2004) Health Effects of Airborne Particulate Matter and the scenario the scenario in India. *Current Science*, Vol. 87 (6): 741-748.
- Mercy Mathew, **Mohanraj R**, Azeez P A and Pattabhi S (2003) Speciation of heavy metals in bed sediments of wetlands in urban Coimbatore. *Bulletin of environmental contamination and toxicology*, Vol. 70 (4): 800-808
- **Mohanraj R**, Sathishkumar M, Azeez P A and Sivakumar R (2000) Pollution status of wetlands in urban Coimbatore. *Bulletin of environmental contamination and toxicology*, Vol 64 (5): 638-643

Other Peer-reviewed Journals with ISSN numbers

- Mohanraj S and Mohanraj R (2018) Effect of Hydraulic Retention Time, Solid Retention Time and Sludge Volume Index in the Treatment Efficiency of Micro Pollutants in Sewage. *Journal of Emerging Technologies and Innovative Research*, Vol 5 (11): 1-6.
- Mohanraj S and Mohanraj R (2018) Effect of MLSS, hydraulic loading rate and dissolved oxygen on food to microorganism ratio in a submerged membrane bioreactor RESEARCH REVIEW *International Journal of Multidisciplinary*, Vol 3 (5): 653-660
- Solaraj G and Mohanraj R (2017) Urinary PAH metabolites as potential biomarkers for PAH exposure – a pilot study in three cities of Southern India. *Austin Environmental Sciences Journal*. 2 (2): 1- 4. (ISSN: 2573-3605)
- Mohanraj R, Somasundaram L, Nishadh K.A (2016) Water Pollution in River Noyyal: Challenges and Prospects. *Geography and You*. 15 (94) : 48-49

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- Manjula Menon, Prashanthi Devi, Mohanraj R (2012) Functional assemblages of birds in heterogeneous landscapes along an urban-rural gradient in Tiruchirappalli, India. *Journal of the Bombay Natural History Society*, 109(1 & 2): 23-29.
- Arivoli A and Mohanraj R (2013) Efficacy of *Typha angustifolia* based vertical flow constructed wetland system in pollutant reduction of domestic wastewater. *International journal of environmental sciences* 3 (5): 1497-1508. ISSN 0976 – 4402.
- Manjula Menon, Prashanthi Devi M, Mohanraj R and Dhanakumar S (2012) Effects of urbanization on functional diversity of species-A Review, *Indian Journal of Natural Resources Vol III /Issue 12*, ISSN: 0976 – 0997.
- Noorjahan, Dhanakumar S., Mohanraj R., and Ravichandran M (2012) Status of heavy metals distribution in municipal solid waste in Tiruchirappalli City, India. *International Journal of Applied Biology and Pharmaceutical Technology*, 3 (3): 252-258.
- Veeramani M, Mohanraj R and Udayasoorian C (2012). Impact of treated paperboard mill effluent on soil properties. *Journal of Ecobiology* 30(3): 183-188.
- M. Veeramani and R.Mohanraj (2012) Impact of Treated Paper Board Mill Effluent on Growth, Wood Yield of Eucalyptus Camaldulensis Dehnh. Clones and Soil Nutrients, *Indian Journal of Natural Sciences*, Vol.2 (10): 801-808.
- Dhanakumar S, Mani U, Murthy R.C , Veeramani M, Mohanraj R (2011) Heavy Metals and their Fractionation Profile in Surface Sediments of Upper Reaches on the Cauvery River Delta, India. *International Journal of Geology, Earth and Environmental Sciences*, Vol.1 (1):38-47.
- Rajesh B, Dhanakumar S, Mohanraj R (2011) Groundwater Quality Assessment in Selected Locations of Lucknow, Uttar Pradesh, India. *Indian Journal of Natural Sciences*, Vol.1 (6):381-386.
- Rajesh B, Dhanakumar S and Mohanraj R (2011) Anthropogenic impacts on hydrochemical characteristics of River Gomti in Lucknow city. *Indian Journal of Natural Sciences* 11 (8): 511-517.
- Mohanraj R and Saravanan J (2011) Changing forest carbon. *Geography and you*, Vol. 11(66):14-17.
- Murthy R. K, Dhanakumar S, Solaraj G, Mohanraj R, Jawahar Raj and Kumaraswamy (2010) Groundwater Quality Assessment for Domestic purpose in the selected locations of Arcot region, Tamilnadu, India, *Indian Journal of Natural Sciences*, Vol. 1 (1): 8-14
- Mohanraj R (2009) Sustainable Buildings and Communities, *Sustainability Tomorrow*, Vol. 4(1): 26-30.
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- S. Dhanakumar, G. Solaraj, R. Mohanraj, S. Pattabhi (2007) Removal of Cr (VI) from aqueous solution by adsorption Using Cooked tea dust, *Indian Journal of Science and Technology*, Vol. 2 :1-6.
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- Madhavakrishnan S, Radhika V.K, Manickavasagam K, Kadirvelu K, Mohanraj R, Rasappan K and Pattabhi S (2006) Removal of methylene blue from aqueous solution by adsorption onto sago waste carbon. *Nature, Environment and pollution technology*, Vol. 5(3):329-336.
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- Manjula Menon, Prashanthi Devi M., Mohanraj R and Dhanakumar S (2012) Effects of urbanization on functional diversity of species-A Review, *Indian Journal of Natural Resources* Vol III /Issue 12, ISSN: 0976 – 0997.
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- Manjula Menon and Mohanraj R (2010) Vanishing sparrows – possibly a synergistic effect. Tiger paper (Food and Agricultural Organization of the United Nations, FAO), Vol xxxvii, P.31-32, 2010, ISSN 1014-2789.
- Mohanraj R and Azeez P A (2005) Automobile pollution in Urban Coimbatore, India. *Nature, Environment and Pollution Technology*, Vol 4 (4): 621-626.
- Mohanraj R and Azeez P A (2003) Polycyclic Aromatic Hydrocarbons in air and its toxic potency. *Resonance*, Vol 8 (9): 20-27.
- Mohanraj R and Azeez P A (2002) Airborne respirable particulate matter in Coimbatore and the state of respiratory health among residents. *Collective Initiatives – Journal on Environment Health and Industrial Development*, Vol 3 (2): 16-23.
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- Azeez P A, Nikhil Raj P P, Mohanraj R (2023) Preface - Ecological and Evolutionary Perspectives on Infections and Morbidity, IGI Global Publishers, ISBN 1799894142, 9781799894148
- Manjula Menon and R. Mohanraj (2023) Monitoring residues of neonicotinoid pesticides in paddy grains along the agro-ecosystems of the Cauvery delta region, South India. *In Emerging Aquatic Contaminants* (Eds: Manish Kumar, Sanjeeb Mohapatra, and Karrie A.Weber), Elsevier, ISBN: 978-0-323-96002-1
- Mohanraj R (2019) Air Quality Impact Analysis. *In Environmental Impact Assessment for Environmental Health Analysis* (Block 2) Indira Gandhi National Open University, ISBN: 987-93-88498-
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- Mohanraj R (2018) Are bio-fuels a viable alternative for sustainable transportation? Proceedings of National conference on Climate Change and Sustainable Environment, Editors A. John De Britto and T. Leaoon Stephan Raj, St. Xavier's Collge, Palayamkottai, India, ISBN 978-93-5300-509-2.
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- Manjula Menon, M. Prashanthi Devi, V. Nandagopalan, and R. Mohanraj (2015) Species diversity and functional assemblages of bird fauna along the riverine habitats of Tiruchirappalli, India. *In: Ramkumar, M., Kumaraswamy, K. and Mohanraj, R. (Eds.). Environmental management of River Basin ecosystems. Springer-Verlag, Heidelberg. ISBN: 978-3-319-13424-6*
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2. Mohanraj R (2019) Environmental Components and Processes, Lambert Academic Publishing, Germany, ISBN: 978-613-9-45364-1
3. Mohanraj R, Rupini B, and Sushmitha B (2019) Environmental Impact Assessment for Environmental Health Analysis (Block 4), Indira Gandhi National Open University, ISBN: 987-93-88498-
4. Mohanraj R, Rupini B, and Sushmitha B (2019) Environmental Impact Assessment for Environmental Health Analysis (Block 3), Indira Gandhi National Open University, ISBN: 987-93-88498-
5. Mohanraj R and Veeramani M (2017) Environmental Assessment of Recycled Paperboard Industry, Lambert Academic Publishing, Germany, ISBN: 978-620-2-08028-6
6. Manjula Menon, Prashanthi Devi M., Mohanraj R (2015) The decline of *Passer domesticus* in India and conservatrion priorities, Lambert Academic Publishing, Germany, ISBN: 978-3-659-78997-7
7. Ramkumar Mu, Kumaraswamy K, and Mohanraj R (2015) Environmental management of river basin ecosystems. Springer International, Switzerland. ISBN: 978-3-319-13424-6
8. Dhanakumar S, Mohanraj R and Ruthravel Murthy K (2012) Anthropogenic Perturbations on Surface Water Resources – A Case Study of Cauvery River Delta, Lambert Academic Publishing, Germany, ISBN: 978-3-659-27333-9

SWAYAM-IGNOU Online Lectures

- Models in EIA (<https://www.youtube.com/watch?v=1KZeUKRtX7c>)
- Air quality Modelling Part I (<https://www.youtu.be/qfXi7wKSI3s>)
- Air quality Modelling Part II (<https://www.youtube.com/watch?v=CVjBYvvs418>)

Seminars/conference/workshop Organized

- Dr Mohanraj organized a Two-day **National Conference on Environmental and Sustainable Development** on February 16-17, 2006 in Collaboration with Earth watch Institute, UK at Bharathidasan University, Tiruchirappalli, India. About 250 delegates participated in the conference. The two-day included plenary sessions representing major issues of environment and sustainable development. Various themes addressed in the conference included, Biodiversity and forest resources, Environmental pollution assessment, Environmental Impact and Risk Assessment, Remote sensing and GIS applications, Industrial Ecology and Eco-efficient Production, Cleaner production, Environmental Management systems and ISO 14000, Ecofriendly pollution control technologies, Economic dimensions of Sustainable Development and raditional Knowledge in Sustainable Development
- During **March 12- 14, 2009**, Dr Mohanraj organized a **National Workshop on Sustainable production and consumption** in association with Tamil Nadu Newsprint and Papers Limited, Karur. The workshop brought together a forum of industrial personnel, business executives, researchers, scientists, students and policy to exchange

their ideas and share discussions on technological innovation, rethinking current business models and policy determination towards sustainable production and consumption. About 50 participants from above sectors actively participated with zeal and commitment. The workshop addressed major environmental management issues such as environmental management systems and ISO 14000, eco-efficient production and zero emission, cleaner production, clean development mechanisms, Environmental Auditing, Eco labelling, Sustainable Built Environment, Carbon neutral energy. Final day of the workshop had hands on exposure at Tamil Nadu Newsprint and Papers Limited, Karur. The workshop was sponsored by Ministry of Environment and Forests, Govt. Of India.

- Two-day **National Workshop on Environment, Health and Safety Management** was organized by Dr Mohanraj during **March 9- 10, 2017**. About 100 participants from various institutions, industries and public sector entities participated in the workshop. Dr Kadirvel, Director, DRDO Centre, Coimbatore inaugurated the workshop and delivered a talk on explosive safety, while Prof. Sivaprakasam from NIT, Trichy spoke on behaviour based safety. Industrial experts and executives from BHEL, TNPL, BUGAI INDIA LTD, INFOSYS, DALAMIA shared their best practices for environmental management. Scientists and faculty members from reputed organizations also presented their research outputs on eco-friendly waste management.
- Focus Group Discussion on Skill Gap Analysis and Scoping Study for Tamil Nadu was organized on 7th February 2019 in collaboration with Akara Foundation, Chennai. Industry representatives, students and academic experts participated in the discussion.
- National Pollution Control Day was observed on December 2, 2019. Scientist Dr K Ramesh, Senior Manager –Process Engineering/R&D, Tamilnadu Water Investment Company Limited delivered 2 sessions and Mr. Somasundaram, Director, Akara Foundation, Chennai, delivered 1 session.
- Organized a National level webinar on **Zoonotic Diseases - Ecological Dimensions** on 09/07/2020, as a part of Environmental Science and Management webinar series. About 220 participants from 25 institutions across India participated in the webinar.
- Organized a National webinar on **The Western Ghats: Understanding species extinction in fragmented rainforest habitats** on 22/07/2020, as a part of Environmental Science and Management webinar series. About 165 participants from 20 institutions across India participated in the webinar.
- Organized a National webinar on **Hazardous Wastes and the Environment: New Paradigms in Management** on 08/08/2020, as a part of Environmental Science and Management webinar series. About 197 participants from 20 institutions across India participated in the webinar.
- Organized a National webinar **Climate Crisis, Biodiversity Loss: How effective are the Global Treaties** on 22/08/2020, as a part of Environmental Science and Management webinar series. About 240 participants from 50 institutions across India participated in the webinar.
- Coordinated UGC-Sponsored Online Refresher Course in Environmental Sciences in collaboration with HRDC-BDU (Multidisciplinary) from 24.02.2021 to 09.03.2021.

The main focus of this Refresher Course was to enable the participants (37 faculty members) to enrich the knowledge in the multidisciplinary subject domain and learn about advancements and cutting edge science and technology developments in the discipline. Eminent professors, Scientists, Former Directors of National Institutes and renowned academicians were invited as resource persons to share their knowledge, case studies and research experiences to the faculty members.

- Organized a National Seminar on **Eco-benign Products and Alternatives** on 26/04/2022, as a part of Environmental Science and Management seminar series. Three plenary lectures from distinguished scientists and academicians featured the seminar and about 70 scholars and students participated in the seminar.
- Organized one day Faculty Development Program - Workshop on CO₂ Sequestration and Climate Stress Research under Scientific Social Responsibility (SSR) Policy of DST- SERB on November 4, 2022. Prof. Dr. M. Selvam, Vice-Chancellor of Bharathidasan University presided over the program and about 15 faculty members from various institutions participated in the workshop and underwent a day long training in the open-top chambers established for climate change research.
- Organized a Research Facility Training Workshop for Researchers on **Plant CO₂ Sequestration Research** under Scientific Social Responsibility (SSR) Policy of DST- SERB during February 15-16, 2024. Prof. Dr. M. Selvam, Vice-Chancellor of Bharathidasan University presided over the program, Dr. I . Ravi, Principal Scientist, ICAR-NRCB delivered keynote address; about 24 PhD and Postdoctoral research scholars from various institutions (national level) participated in the workshop and underwent two days training in photosynthesis measurements and open-top chamber experiments.

Outreach programs

Eco-restoration of *Prosopisjuliflora* invaded lake, Kovilveerakudi village, Pudukottai (Year: 2022-25)

"Eco-restoration of *Prosopisjuliflora* degraded lands by vegetative remediation" has been initiated by our research team as a part of All India Coordinated Research Project titled "Assessment and monitoring of Invasive Alien Plant Species in India and formulation of strategies for management of key Invasive Alien Plant Species in different regions of the country". This is an **Indian Council of Forestry Research & Education (ICFRE)** funded project as part of a scheme titled "Strengthening Forestry Research for Ecological Sustainability and Productivity Enhancement" of **the Compensatory Afforestation Fund Management and Planning Authority (CAMPA)** of Ministry of Environment, Forests and Climate Change (MoEFCC), Government of India.

The first phase of the project involves ecological restoration of a lake invaded by the *Prosopisjuliflora* at Kovilveerakudi Village, Pudukkottai. The project launch program was held in Kovilveerakudi village on 29/06/2022. Based on the inputs from the earlier studies and field investigations, the research investigation team has identified few native plant species that co-exists with *P. juliflora* and have the potential to outperform the weed. The ecological restoration experimentation mainly involves the plantation of this native vegetation in scientific manner which is likely to sustain on a long-term basis. The project is in line with United Nations – Year of Ecosystem Restoration – 2020-2030.

Memoranda of Understandings/Agreements

- Institute of Forest Genetics and Tree Breeding (on behalf of Indian Council of Forestry Research and Education)
- Kudumbam - NGO, Tiruchirappalli

Invited lectures/Resource Person

- Invited resource person - UGC sponsored Short Term Programme in Environment & Sustainable Development- Title of the lecture: "Ecological Footprints, Ecosystem Services and Sustainability", UGC-HRDC, Bharathidasan University, Tiruchirappalli, 13/12/2024.
- Invited Lecture on Heavy Metal Bioaccumulation and Phytoremediation Potential of *Prosopis juliflora*, International Conference on Plant Biotechnology for Sustainable Productivity and Environment, Manipal Academy of Higher Education (MAHE), Manipal, Karnataka, India, December 9-10, 2024
- Invited resource person - UGC sponsored Seventeenth faculty induction program - Title of the lecture: "Environment, Climate Change and Eco-system Sustainability", UGC-HRDC, Bharathidasan University, Tiruchirappalli, 23/11/2024.
- Invited resource person - UGC sponsored Sixteenth Online faculty induction program - Title of the lecture: "Environment, Climate Change and Eco-system Resilience", UGC-HRDC, Bharathidasan University, Tiruchirappalli, 08/07/2024.
- Invited resource person – World Environment Day, Title of the lecture: Role of Doctors in making India – Ecofriendly; organised by Sri Ramakrishna Dental College & Hospital, Coimbatore 18.06.2024
- Invited resource person - UGC sponsored Fifteenth Online faculty induction program - Title of the lecture: "Environment, Climate Change and Eco-system Resilience", UGC-HRDC, Bharathidasan University, Tiruchirappalli, 26/02/2024.
- Invited resource person - UGC sponsored online refresher course in Environment and Sustainable Development - Title of the lecture: " Climate Change: Role of Ecosystem resilience in minimizing the impacts", UGC-HRDC, Bharathidasan University, Tiruchirappalli, 16/12/2023.
- Invited resource person - UGC sponsored Fourteenth Online faculty induction program - Title of the lecture: "Environmental, Climate Change and Sustainability", UGC-HRDC, Bharathidasan University, Tiruchirappalli, 07/11/2023.
- Invited resource person-National Webinar on **Environment and Health: Lifestyles for Sustainability**, organised by the IGNOU Regional Centre, Madurai as part of the – Swachhata Pakhwada Special Campaign 3.0 on 13.10.2023
- Invited resource person - UGC sponsored Thirteenth Online faculty induction program - Title of the lecture: "Environmental, Climate Change and Ecosystem Resilience", UGC-HRDC, Bharathidasan University, Tiruchirappalli, 21/08/2023.
- Invited Keynote Speaker - Delivered Lecture on "Ecorestoration" in the National Workshop on New Space Policy and Emerging Trends in Remote Sensing, Dept. of Geography, Bharathidasan University, Tiruchirappalli, 16/08/2023.
- Invited Keynote Speaker - Delivered Lecture on "Enhancing Ecosystem Resilience to Climate Change" in the National Seminar on Climate Change and Biodiversity, Vimala College, Thrissur, Kerala, 09/08/2023.
- Invited resource person - Guest Lecture on "Declining Ecosystem Services: Impending Risks" Tamilnadu Agricultural University, Coimbatore. 27/06/2023.
- Invited popular talk for All India Radio - Pudhugai FM, Community Radio - Program on "National Clean Air Day" on 15/6/2023 (<https://pudhugai.fm.in/150623/>).
- Invited panelist (Academic Expert) - World Environment Day, Panel Discussion on Beat Plastic Pollution, Organized by EIACP RP (MoEF & CC), Amrita University, Coimbatore,

06/06/2023

- Invited resource person - Special Lecture on "Climate Change: Approaches to Adaptation and Resilience", - Periyar University, Salem. 16/03/2023.
- Invited Chairperson - 46th Indian Social Science Congress: Interdisciplinary Thematic Panel on Ecological and Environmental Protection Movements, Bharathidasan University, 27th - 31st January, 2023
- Invited resource person - DST STUTI sponsored National Workshop on 'Environmental Monitoring using Advanced Analytical and Molecular Tools, Title of the lecture: " Carbon Sequestration Estimation, - for Organised by School of Environmental Sciences and School of Marine Sciences Bharathidasan University, Tiruchirappalli, In collaboration with NIT Warangal, 16/11/2022
- Invited resource person - UGC sponsored Twelfth Online faculty development program - Title of the lecture: "Environment and Climate Change: Shifting Paradigms", - for UGC-HRDC, Bharathidasan University, Tiruchirappalli, 01/11/2022
- Invited resource person - DST STUTI sponsored National Workshop on "Marine Bioresources and Pollutant Biomarkers", Title of the lecture: " Biomarkers in carcinogenic risk assessments with emphasis to air borne pollutants", - for Organised by School of Environmental Sciences and School of Marine Sciences Bharathidasan University, Tiruchirappalli, In collaboration with JSS AHER, Mysore, 17/10/2022
- Invited resource person (Chief Guest) - AICTE sponsored SPICES program - Title of the lecture: "Environmental Sustainability: Challenges Ahead and the Quest for Viable Alternatives", - K Ramakrishnan College of Engineering, Samayapuram, Trichy, 14/09/2022.
- Invited resource person - UGC sponsored Eleventh Online faculty development program - Title of the lecture: "Environmental Issues and Challenges: Emerging Paradigms", - for UGC-HRDC, Bharathidasan University, Tiruchirappalli, 06/06/2022 and 09/09/2022.
- Invited resource person - Lecture topic: Environmental impact of fireworks: exploring trade-offs between benign technologies and environmental safety" - The Institution of Engineers (India) Madurai Local Centre, 36th National Convention and National Conference on "Technology for Green Fire Works – Holistic Approach towards Environmental Challenges" 26-27 August 2022, Madurai – 625 002
- Invited resource person - UGC sponsored Tenth Online 19th Refresher Course in Life Science - for UGC-HRDC University of Calicut, Calicut, 16.08.2022
- Invited resource person - UGC sponsored Tenth Online 11th Refresher Course in Environmental Science - Title of the lecture: "Environmental Issues and Concerns", - for UGC-HRDC University of Calicut, Calicut, 14.07.2022.
- Invited resource person - Webinar on "Research Methods - Problem Solving and Ideation", - Nehru Arts and Science College, Coimbatore. 11/11/2021.
- Invited resource person - UGC sponsored Tenth Online faculty development program - Title of the lecture: "Environmental Issues and Concerns", - for UGC-HRDC Faculty, Bharathidasan University, Tiruchirappalli, 06/06/2021 and 07/06/2021.
- Invited resource person – delivered lecture on "Advances in Environmental Monitoring and Management", for UGC-HRDC Faculty, Bharathiar University, Coimbatore, 12/02/2020.
- Invited resource person - Guest Lecture on " **Plume behavior and stack dispersion** ", - Bharthiar University, Coimabtoe. 04/01/2021.
- Invited resource person - Online faculty development program on "Environmental Audit", Title of the lecture: Life Cycle Assessment and Environmental Audit" - Kirori Mal College, University of Delhi, Delhi, 28/06/2021
- Invited resource person - Webinar on "Re-Greening for Environmental Sustainability and Sustainable Development", TN Teachers Education University, Chennai, 13/08/2020.

- Invited resource person - International online faculty development program on "Developing Effective Research Skills", Title of the lecture: "Research Metrics: How does the impact factor and citations matter" Vinayaka Deemed University, Salem, 9-12/06/2020.
- Invited Webinar on "COVID19: Lessons on Environmental Sustainability and Opportunities for Innovative Models" One day Webinar organized BDU Entrepreneurship, Innovation & Career Hub, Bharathidasan University, 14/05/2020
- Invited Lecture on "Global Warming", @tutor Institute of Technology, Trichy, 14/03/2020
- Invited resource person – delivered lecture on “Emerging Paradigms in Environmental Sustainability”, for UGC-MHRD Refresher Course in Environmental Studies, University of Calicut, Calicut, 10/03/2020.
- Invited resource person – delivered lecture on “Advances in Environmental Monitoring and Management”, for UGC-MHRD Refresher Course in Environmental Studies, Bharathiar University, Coimbatore, 12/02/2020.
- Invited Plenary Lecture - Sensor Based Networks for Real-Time Water Quality Monitoring and Management, Two day National Seminar on Role of Community in Water Conservation- A milestone towards Sustainable Development, Gandhigram Rural Institute-Deemed to be University, Gandhigram. February. 7/02/2020
- Invited Special Lecture - Environmental Sustainability and Green Growth: Challenges and Targets, One-day International Conference on Business Strategies for Sustainable Development Goals, St. Francis De Sales College, Bangalore 23.01.2020
- Invited Special Lecture - Balancing environmental sustainability in business and infrastructure development, International Conference on Multidisciplinary Research in Global Challenges and Perspectives of Sustainable Development, St.Jeromes College, Nagecoil, 21.12.2019
- **Expert interview to BBC World News** - Aiming to make cement more environmentally friendly - Telecasted on 25/11/2019.
- Invited resource person – delivered lecture on “Environmental Concerns - Disaster Ahead ”, for UGC-MHRD 108th Orientation Course, Bharathidasan University, Coimbatore, 13/11/2018.
- Invited Lecture and Moderator - State Level Conference on Re-greening Villages in Tamil Nadu and Pondicherry. Organized by SAM (Social Action Movement) and KUDUMBAM NGO. BDU, Trichy, 08.11.2019
- Invited Special Lecture - Environmental Sustainability: Challenges, Overcomes and Targets Ahead for Green Strategies", for One day state level seminar on Green Growth and Sustainable Goals with Reference to India. NIT -Trichy, 6/9/2019.
- Invited Special Lecture – on “Business as Trustees of earth's resources” Induction Program for the 36th Batch of MBA Students, Bharathidasan Institute of Management, Tiruchirappalli. 03/07/2019
- Invited Lecture – delivered Inaugural Lecture on “Science and Technology for Sustainable Future” for National Science Day Week Long Celebration, Ganadhigram Rural Institute - Deemed University, Gandhigram. 21/02/2019.
- Invited resource person – delivered lecture on “Funding schemes and research proposal preparation”, for UGC-MHRD 104th Orientation Course, Bharathidasan University, Coimbatore, 21/11/2018.
- Invited resource person – delivered lecture on “Thinking beyond fossil fuels –towards carbon neutral world ”, for UGC-MHRD Refresher Course in Environmental Studies, Bharathiar University, Coimbatore, 21/07/2018
- Invited resource person – delivered lecture on “Emerging Environmental Issues in India”, for 103rd UGC Orientation Course, Bharathidasan University, Trichy, 22/05/2018.

- Invited resource person – Delivered Lecture on “Are bio-fuels a viable alternative for sustainable transportation” - National conference on Climate Change and Sustainable Environment, St.Xavier’s College (Autonomous), Palayamkottai – 627 002, Tamilnadu, 15-16th March 2018.
- Invited resource person – delivered lecture on “Resettlement and Rehabilitation issues in Development Projects – Case studies”, for UGC-MHRD Short Course, University of Kerala, Trivandrum, 10/03/2018.
- Delivered Inaugural Lecture for “National Science Day Event ” – Organized by Centre for Remote Sensing, Bharathidasan University, Tiruchirappalli, 28/2/2018.
- Invited resource person – Delivered Lecture on “Data Analytics and Visualization” - National Workshop Advances in Research Methodology and Intellectual Property Rights, Holy Cross College (Autonomous), Nagercoil – 629 004, Tamilnadu, 17th February 2018
- Invited resource person – delivered lecture on “Ecological foot prints and climate change”, for UGC Orientation Course, Bharathidasan University, Trichy, 05/09/2017
- Invited Guest lecture on “Ecosystem Services”, PSGR Krishnammal College for Women, Coimbatore, 18/08/2017.
- Invited resource person – Conducted four sessions in “Environmental Issues, Env.& Human Health, Pollution Management and Solid waste management”, for Orientation Course in Environmental Science, Theivanai Ammal College Villupuram, 21/07/2017.
- Invited resource person – Delivered Lecture on “Noise and Health” - Inauguration of Environmental Sciences Association (ESA), Department of Environmental Sciences, Bishop Heber College, Tiruchirappalli, 20th July 2017
- Invited Chief Guest and delivered special address on Environmental Month Celebrations at India Cements Limited, Dalavoi, Perambalur, 29/06/2017.
- Invited subject expert for JRF Selection committee, Bharathiar University, Coimbatore, 19/06/2017
- Invited Expert for District Expert Appraisal Committee meeting, Coimbatore, 06/06/2017.
- Invited popular talk for All India Radio- Live program on “Our Environment” on 2/6/2017.
- Invited expert for Course writer’s meeting on “PG Diploma in Environmental and Occupational Health program” – IGNOU New Delhi – 110068, on 6/4/2017.
- Invited resource person – One day awareness program on Environmental Protection – Mount Zion College of Engineering and Technology, Pudukkottai, 17/2/2017.
- Invited lecture on “Corporate Environmental Management”, St. Joseph’s Institute of Management, Tiruchirappalli, 13/11/2016.
- Invited resource person to deliver on “Emerging Paradigms in Pollution Monitoring and Management”, for UGC Refresher Course in Environmental Science, University of Calicut, Calicut, 12/11/2016.
- Invited special lecture on “Environmentalism in India – Boon or Bane” in ICHR sponsored Seminar on National Seminar on History of Science and Technology in post-colonial India, Bharathidasan Tiruchirappalli, 04/11/2016.
- Invited expert for Brainstorming Meet on “Spatial Data Infrastructure (SDI) Support to Smart City Development” and to present project outcome of “Sensors in Smart City GIS Applications: Real Time Information on Environmental & Air Quality Management” – NRDMs-NSDI, DST, Govt. Of India, New Delhi, September 14-15, 2016.
- Invited special lecture on “Biological Waste management – New paradigms” in National Seminar on Neogeneogenesis, Rajalakshmi Engg College, Chennai, 2-3, Sep 2016.
- Invited resource person to deliver lecture on “Urban Air Pollution in India – impediment for sustainable cities” in QIP Short term course on “Environmental Issues on Sustainable Environment” Coimbatore Institute of Technology, Coimbatore, 14/10/2015.

- Invited special lecture on “Biodiversity of Western Ghats: How important to the peninsular India” in UGC sponsored Seminar on Biodiversity, Seethalakshmi Ramasami College, Tiruchirappalli, 03/10/2015.
- Invited special lecture on “Climate Change Impacts and Potential Mitigation Strategies” in National Seminar on Global Climate Change, Hindustan College of Engineering and Technology, Coimbatore, 14/09/2015.
- Invited lecture on “Urban air pollution monitoring using ICT and geospatial technologies”, for special summer school (interdisciplinary refresher course in environmental science), University of Calicut, Calicut, 11/05/2015.
- Invited special lecture on “Environmental Strategies for Business” in National Seminar on contemporary strategies in Business, Sree Narayanaguru College, Coimbatore, 10/02/2015.
- Invited special lecture on “Challenges in Environmental Monitoring and Management – Need for transition” Dept. Of Environmental Science, PSG College, Coimbatore, 09/02/2015.
- Invited special lecture on “Environment and Development” Dept. Of Civil Engg, EASA College, Coimbatore, 09/02/2015.
- Invited lecture on “Anthropogenic Perturbations and its Impact on Carbon Stock in a Tropical Dry Deciduous Forest of Southern India” Ecosystem Science and Management Seminar Series, Pennsylvania State University (USA), 31/10/2014.
- Invited lecture on “Environmental Impact Assessment and Industrial Ecology” TEQUIP sponsored faculty development program, Coimbatore Institute of Technology, Coimbatore, 19/10/2013.
- Invited special lecture on “Use of cooking fuel in Tamilnadu” in Census 2011 – Data dissemination workshop on houses, house hold amenities and assets, Jointly organized by Census Dept. Govt. of India and Department of Geography, Bharathidasan University, Trichy, 31/7/2012.
- Invited talk on “ Air Pollution” for All India radio at Tiruchirappalli, on 3/7/2012
- Invited moderator for a Session. ENVIROVISION, M.Sc. Environmental Sciences, Students’ Project Seminar – 4th April 2012, Bishop Heber College, Trichy
- Invited key speaker on “Carbon sequestration in industrial sector” in Science Academies Lecture Workshop on Carbon sequestration in Mitigation of Global Warming”), 20 March 2012, Bharathiar University, Coimbatore.
- Invited key speaker on “Solid Waste Management” in National seminar solid waste management, 17 March 2012 Chennai Institute of technology, Chennai.
- in fostering environmental stewardship and sustainability” in National Seminar on Environmental Accounting for sustainable development, organized Dept. Of Economics, Annamalai University, Chidambaram, 15-16 March 2012.
- Invited key speaker on “Role of Environmental Audit
- Invited Plenary lecture on “Moving towards sustainability” in National Seminar on waste water treatment for pollution control and reuse, organized by Sri Krishna College of technology, Coimbatore, 25 Jan 2012.
- Invited lecture on “Role of civil engineers in EIA, water resource management and green building concept” PWD training workshop on water resources development and management, Trichy 21-25/02/2011
- Delivered plenary lecture on “Ecological footprints, Business and Biodiversity” and chaired a session on Biodiversity and Climate change in National seminar on Spatial Strategies for Sustainable Management, Organized by Dept. Of Env Management, Bharathidasan Univeristy, 14-16 February 2011
- Invited resource person for World Toilet Day, Organized by Gramalaya, on 19/11/2010 at Trichy.

- Participated in WMO INTERREGIONAL CLIPS TRAINING WORKSHOP ON URBAN CLIMATOLOGY, Pune, India, 6 – 10 September 2010
- Participated as a resource person in DST Sponsored Interaction meeting on “Spatial Quantification of Ecosystem Functions in Western Ghats.” Sponsored by NRDMS division of Department of Science and Technology, GOI, New Delhi, on 14th and 15th November, 2008 at Bangalore.
- Acted as a resource person and delivered lecture on **Climate Change and its consequences** for the refresher course conducted by Academic staff College, Bharathidasan University, Trichy on 20 October 2008.
- Acted as a resource person and delivered lecture on **Potential Climate Change Mitigation Strategies in Regional context** at national level seminar on climate change organized by **SACON Coimbatore and CMS Environment, Delhi** at Coimbatore on 18 October 2008.
- Acted as a chief guest and delivered lecture on **Climate Change and Biodiversity** for the inaugural function of Department of Botany, Thiyagarajar College, Madurai on 30 September 2008.
- Acted as a chair person and delivered introductory note for a technical session in state level seminar on **pollution hazards to health** at PSGR Krishnammal College, Coimbatore on 12 September 2008.
- Acted as a resource person and delivered lecture on **Climate Change** for the refresher course conducted by Academic staff College, Bharathiar University, Coimabtoe on 22 August 2008.
- Acted as a resource person and delivered lecture on **Environmental Impact Assessment in Sustainable Development and Industrial ecology approach for ecosystem sustenance** for the orientation course conducted by Academic staff College, University of Calicut, Calicut on October 2007.
- Participated as an expert in National Brainstroming workshop on “Planet Earth” Organized by Salim Ali Centre Coimbatore on 10- 13 October 2007.
- Acted as a chief guest and delivered lecture on **Implications of Climate Change on Biodiversity** for the valedictory function of Department of Botany, National College, Trichy on 16 March 2007.
- **Environmental Protection** – Live broadcast program for All India Radio, Tiruchirappalli on 1^{6th} November 2006
- **Ocean Circulation and Climate change-** delivered to Marine science department on 21st September 2006.
- Acted as a resource person and delivered lecture on **Bioethics** for the refresher course conducted by Academic Staff College, Bharathidasan University, Tiruchirappalli. November 2007.
- Acted as a resource person and delivered lecture on **Air pollution** for the refresher course conducted by Academic Staff College, Bharathidasan University, Tiruchirappalli. November 2006.
- Acted as a resource person and delivered lecture on **Environmental Impact Assessment** for the refresher course conducted by Academic Staff College, Bharathidasan University, Tiruchirappalli. November 2006.
- **Environmental Implications of Frivolous use of plastics** – delivered to Leitmotiv club of plant science department, Bharathidasan University, 2005.

Select Papers in international seminars/ symposia/workshop

- R. Mohanraj (2024) Heavy Metal Bioaccumulation and Phytoremediation Potential of Prosopis juliflora, International Conference on Plant Biotechnology for Sustainable

Productivity and Environment, Manipal Academy of Higher Education (MAHE), Manipal, Karnataka, India, December 9-10, 2024.

- K.P. Aakash and R. Mohanraj (2023) Water Quality Assessment and its Ecological effects in Wetlands of Cauvery Delta Region, 46th Indian Social Science Congress: Interdisciplinary Thematic Panel on Ecological and Environmental Protection Movements, Bharathidasan University, 27th - 31st January, 2023
- Akil Prasath R.V, R.Mohanraja and A.Rajsekaran (2023) *Prosopis juliflora* invasion in Pudukkottai and Tiruchirappalli Districts of Tamil Nadu and its Socio-economic and implications, 46th Indian Social Science Congress: Interdisciplinary Thematic Panel on Ecological and Environmental Protection Movements, Bharathidasan University, 27th - 31st January, 2023
- Akil Prasath R.V, R.Mohanraj and A.Rajsekaran (2022) Decontamination of heavy metal polluted environment utilizing a wide spread invasive taxa *Prosopis juliflora* in Southern India. Third International Weed Conference, Anand Agricultural University, Anand, Gujarat, December 20-23, 2022.
- Nishadh K.A., Mohanraj R and Azeez P.A (2019) Real time particulate pollution monitoring in Coimbatore using customized commodity monitor. International conference on air pollution and monitoring, MG University, Kottayam, March 8 - 11, 2018.
- R. Mohanraj and P. Ram Narayanan (2017) Growth Responses of *Delonix regia*, *Syzygium cumini* and *Melia Dubia* to Elevated CO₂ and Stress Conditions in Open Top Chamber Experiments, International Seminar on Biology for Sustainable Environment, Bharathidasan University, March 7-8, 2017.
- R. Seenivasan, V. Prasath and R. Mohanraj (2017) Co-benefits of carbon storage and sodicity reclamation in restoration plantings of *Eucalyptus camaldulensis*, *Casuarina equisetifolia* and *Erianthus arundinaceus*, International Seminar on Biology for Sustainable Environment, Bharathidasan University, March 7-8, 2017.
- M. Veeramani and R. Mohanraj, Environmental Inventory Assessment of Recycled paperboard Industry, National Workshop on Environment, Health and Safety Management, Dept of Environmental Management, March 9- 10, 2017.
- R. Mohanraj, T. Hariharan and Ram Narayanan (2015) Screening CO₂ sequestration efficient Pulp wood species in OTC under elevated CO₂ conditions. 12th International Phytotechnologies Conference, hosted by International Phytotechnology Society & Kansas State University, Kansas, USA, September 27-30, 2015.
- R. Seenivasan, V. Prasath and R. Mohanraj*R. (2015) Sodic soil remediation in a semi-arid region involving organic amendments and vegetative remediation by *Casuarina equisetifolia* and *Erianthus arundinaceus*. 12th International Phytotechnologies Conference, hosted by International Phytotechnology Society & Kansas State University, Kansas, USA, September 27-30, 2015.
- R. Mohanraj*R. (2015) Particulate emissions from forest fires – a notorious source of air pollution. International Conference on Chemical and Environmental Research, Jamal Mohamed College, Trichy, 17 December 2015.
- R. Mohanraj (2015) Particulate emissions from forest fires – a notorious source of air pollution. International Conference on Chemical and Environmental Research, Jamal Mohamed College, Trichy, 17 December 2015.
- R. Mohanraj (2015) Impact of elevated CO₂ and water stress conditions on CO₂ sequestration potential of commercially grown *Eucalyptus* varieties. International Conference on Chemical and Environmental Research, Jamal Mohamed College, Trichy, 17 December 2015.
- Mohanraj and S. Dhanakumar (2010) Chemical speciation of metals in sediments of Cauvery delta estuarine region with emphasis on its mobility and bioavailability,

Presented the research paper at IMBER IMBIZO II Conference on Integrating biogeochemistry and ecosystems in a changing ocean: Regional comparisons, at Hellenic Marine Research Centre, Crete, Greece, 10-14 October 2010

- R. Mohanraj (2010) Participated in WMO INTERREGIONAL CLIPS TRAINING WORKSHOP ON URBAN CLIMATOLOGY, Pune, India, 6 – 10 September 2010
- R. Mohanraj, J. Saravanan and S. Dhanakumar (2010) Estimation of Carbon stock in Kolli hills, Eastern Ghats, India with emphasis on carbon pool in above ground biomass, Litter, Woody Debris and Soils” oral presentation at 24th IUFRO (International Union of Forest Research Organizations) Conference for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems, at Grand Haber – ANTALYA, Turkey, March 22 – 26, 2010.
- R Mohanraj, G. Solaraj, S. Dhanakumar (2010), Fine Particulate Matter Trends in Major Urban Regions of Tamilnadu, India with emphasis on source apportionment of toxic metals. Annual conference of American Association for Aerosol Research, San Diego, US, March 22 – 26, 2010.
- R. Mohanraj (2010) Potential biological responses to elevated atmospheric CO₂ levels, International conference on climate change and bioresources, Bharathidasan University, Trichy, India, 9- 12, Feb 2010.
- Seenivasan. R and R. Mohanraj (2010) Invasive insect threat to Eucalyptus plantations – Is it one among the probable manifestation of climate change. International conference on climate change and bioresources, Bharathidasan University, Trichy, India, 9- 12, Feb 2010.
- Mohanraj R, C Lakhsumanan (2009) Chemical Characterization of airborne fine particulate matter in urban regions of Tamilnadu and their potential role in Urban Heat Island, Climate Change: Global Risks, Challenges and Decisions, Copenhagen, Denmark. March 2009.
- Mohanraj R, S. Dhanakumar, G. Solaraj (2009), Urbanization and airborne fine particulate matter in major urban regions of Tamilnadu, India, The 7th International conference on Urban Climate, Yokohama, Japan, June 29 – July 3, 2009.
- Mohanraj R (2006) presented paper on “Towards Sustainable Water Management Strategies in River Noyyal Basin, Tiruppur, India – A region impaired by knitwear manufacturing industrial cluster” at Development and Adaptation Days at twelfth Conference of the Parties (COP12) to the UN Framework Convention on Climate Change (UNFCCC), 11-12 November 2006, in Nairobi, Kenya.
- Mohanraj R and P A Azeez (2002) “PM 10 concentrations with emphasis to its elemental and micro-organic composition” 21st Annual conference of American Association for Aerosol Research, Oct 7-11, 2002, North Carolina, USA
- Mohanraj R and P A Azeez (2003) Atmospheric Particulate Matter, its Chemical Composition and the Impacting Meteorological Factors in Coimbatore, India. International conference on coastal and fresh water issues, 8 – 10 December, 2003, Institute of ocean management, Anna University, Chennai, India.
- Mohanraj R and P. A. Azeez (2001) “Environmental and health implications of frivolous use of plastics” International workshop on energy and environment, Tanjavoor, India.

List of Ph.D Theses Guided (Completed / Ongoing)

Sl. No.	Name of the Scholar	Title of the Thesis	Completed/ On-Going	Month and Year
1	S. Dhanakumar	Heavy metal fractionation in sediments of River Cauvery in Delta region	Completed	May 2012
2	M. Veeramani	Impact assessment of recycled paperboard industry with emphasis on waste management	Completed	August 2013

3	R. Seenivasan	Integrated approach for reclamation of salt affected soil in low lying areas of Karur district, Tamilnadu	Completed	October 2013
4	G. Solaraj	Airborne Fine Particulate-Phase Polycyclic Aromatic Hydrocarbons in Urban Chennai and Tiruchirappalli	Completed	October 2013
5	Arivoli	Efficacy of Constructed wetland in Treatment of domestic waste water and pulp and paper effluent	Completed	September 2015
6	J. Saravanan	Carbon Sequestration and Stock Changes in Different Vegetation Types of Kolli Forest	Completed	December 2015
7	P. Ram Narayanan	Screening of carbon sequestration efficient tree species in elevated CO ₂ conditions	On-Going	
8	S. Mohanraj	Optimization of Membrane Bioreactor Based Sewage Treatment Plant Towards Micropollutant Treatment	Completed	March 2020
9	Praveen Khanna	Numerical Modelling of Pollution Transport ... Sustainable Development	On-Going	
10	L.Somasundaram	Data systems and MIS for Env. Mgt	On-Going	
11	Jincy Jose	Superhydrophilic - Superhydrophobic bio-based material for pollution removal	On-Going	
12	Aakash	Heavy metal fractionation and bio-accumulation	On-Going	
13	Akil Prasath	Impact of Prosopis juliflora invasion in the central region of Tamil Nadu and its ecological implications	On-Going	
14	Balaramdas	Carbon Dynamics in the Different Forest Types of the Western Ghats of TamilNadu and its Likely Manifestations on Climate Change	On-Going	
15	Jayakumaran	Carbon Sequestration Potential of Select Native Tree Species under Elevated CO ₂ , Ozone and Environmental Stress conditions	On-Going	

List of M. Phil Dissertation Guided (Completed / Ongoing)

Sl. No.	Name of the Scholar	Title of the Thesis	Name of the University	Completed - Month and Year
1	N. Gomathi	Environmental assessment in Chennai petroleum corporation limited, Cauvery basin refinery (CPCL-CBR) Panangudi, Nagapattinam	Bharathidasan University	August 2007
2	B. Rajesh	Environmental Impact assessment of proposed landfill site at Lucknow	Gandhigram rural institute	July 2011
3	Reena Rinsi	Heavy Metal Pollution	Bharathidasan University	June 2019

Peer Reviewer

Peer Reviewer for NRDMS n NSDI Division	DST, New Delhi	Project Proposal Peer reviewer
Peer Reviewer for Dutch Research Council	NWO - Dutch Research Council, The Netherlands	Project Proposal Peer reviewer

PhD Thesis Evaluated: 34

Editorship in Journals

- Associate Editor: Frontiers in Environmental Science
- Editorial Board Member: Nature Scientific Reports
- PLOS ONE (Guest Editor)
- Editorial Board Member: Austin Environmental Sciences journal
- Editorial Board Member: Continental Journal of Environmental Sciences

Reviewer in Journals

- Journal of Hazardous Materials (Elsevier)
- Science of Total Environment (Elsevier)
- Geoderma (Elsevier)
- Chemosphere (Elsevier)
- Journal of Environmental Management (Elsevier)
- Atmospheric Environment (Elsevier)
- Environmental Pollution (Elsevier)
- Ecotoxicology and Environmental Safety (Elsevier)
- Catena (Elsevier)
- Land Degradation and Development (Wiley & Sons Publications)
- Journal of Toxicology (Wiley)
- PLOS ONE (Reviewer and (Editor for 1 article))
- Critical Review in Toxicology (Taylor & Francis)
- Carbon Management (Taylor & Francis)
- Environmental Science and Pollution Research (Springer)
- Water, Air, & Soil Pollution (Springer)
- Nature Scientific Reports (Springer - Nature)
- Urban Ecosystems (Springer)
- International Journal of Environmental Research (Springer)
- Annals of Forest Science (Springer)
- Archives of Environmental Contamination and Toxicology (Springer)
- Archives of Agronomy and Soil Science (Taylor & Francis)
- Environmental Earth Sciences (Springer)
- Environmental Monitoring and Assessment (Springer)
- Climatic Change (Springer)
- Applied Water Science (Springer)
- Journal of the Saudi Society of Agricultural Sciences (Elsevier)
- Journal of Radiation Research and Applied Sciences (Elsevier)
- Journal of forest research (Springer)
- Frontiers in Environmental Sciences (Frontiers)
- Asia-pacific Journal of Regional Science (Springer)
- Proceedings of the National Academy of Sciences, Biological Sciences (Springer)
- CLEAN - Soil, Air, Water (Wiley)
- Geological Journal (Wiley)
- African journal of ecology (Wiley)
- Journal of Urban Ecology (Oxford Academic)
- Archives of Agronomy and Soil Science (Taylor & Francis)
- Journal of Sustainable Forestry (Taylor & Francis)
- Chemistry and Ecology (Taylor & Francis)

- iForest (Italian Society of Silviculture and Forest Ecology (SISEF)
- American Journal of Environmental Science, Science Publications

Membership in Research organizations/Society/Boards

- Member - International Union for Conservation of Nature (IUCN) - Commission on Education and Communication (CEC) 2021-2025
- Member - International Union for Conservation of Nature (IUCN) - Commission on Ecosystem Management (CEM) 2021-2025
- Member in Environmental & Water Resources Institute of the American Society of Civil Engineer (ASCE), www.EWRInstitute.org.
- Member in International Association of Urban Climate (IAUC), www.urban-climate.org
- Member in The Organization for Industrial Spiritual & Cultural Advancement - International (OISCA - International)
- Expert Member in NCSTC-NETWORK, Catalyzed and Supported by RVPS - DST , Govt. of India
- Expert Member in EtKon-Environmental Impact Assessment (EIA) Training and Knowledge Network, Mumbai – 400031, Maharashtra, INDIA
- Member of Board of Studies, PSG College of Arts and Science, Coimbatore (2008-2011)
- Member of Board of Studies, Dept. of Environmental Management, BDU (2006-2015)
- Convener, Board of Studies, Dept. of Environmental Management, BDU (2016-2017)
- Member of Board of Studies, Environmental Sciences, BDU (2015-2018)
- Member of Board of Studies, Environmental Sciences, Bishop Heber College (2017-2019)
- Senior Member - Hong Kong Chemical, Biological & Environmental Engineering Society, August 2018 Onwards, <http://www.cbees.org/list-15-1.html>

Personal Details

Gender: Male, Ethnic Origin: Indian