

PUBLICATIONS 2017-2024

1. S Vaishaly, Anas Bin Firoz, K Sridhar, **M Govindaraju** (2024), "Comprehensive Analysis of Urban Heat Island and Climate Change Impact on the Environment – An Overview" Journal For Basic Sciences, ISSN No: 1006-8341, Volume 24, Issue 5, 2024, Pg. No: 326-334.
2. Kanagaraj Suganthi., Rathinam, M., Ramkumar, M. K., Sreevathsa, R., **Govindaraju Munisamy**, (2023) entitled "Comparative assessment of leaf photosynthetic traits for improved carbon dioxide fixation in selected tree species of Pachamalai hills" Brazilian Journal of Botany, Volume 46(1), pp1-14.
3. Kalaipriya, P., Vignesh, P., Chakraborty, S, and **Govindaraju Munisamy** (2023) entitled "Assessment of Biochemical Characters and Development of Anticipated Performance Index for Air Pollution Stress Plants in Tiruchirappalli City". Journal of Advances in Bioresearch, Volume14 (2), pp 59-65
4. P.Kalai Priya, P.Vignesh and **M.Govindaraju** (2022), "Air Pollution Tolerance Index of Plants Living in High Traffic Areas of Tiruchirappalli City " Indian Journal of Natural Sciences (IJONS), Vol 13, 74, pp 48161-48168.
5. J. Fowmitha Banu, P. Vignesh, K. Sridhar and **M. Govindaraju** (2022). "Air Pollution and Its Influence on Human Health: A Public Perception Survey" Indian Journal of Natural Sciences (IJONS), Vol 13, 74, pp 48251-48257.
6. P. Vignesh, J. Fowmitha Banu, P. Kalaipriya, K. Sridhar and **Munisamy Govindaraju** (2021), "A Study on Air Quality Index for Tiruchirappalli City Corporation". Ecology, Environment and Conservation.
7. Kalaipriya, P., Vignesh, P., Senthamilselvi, S., & **Govindaraju, M.** (2021). A Study on Phytochemical Screening, Antioxidant and Antimicrobial Activities of Leaf Extract of *Datura innoxia*. Asian Journal of Research in Biology, 24-30. Vol 4 (1)
8. J. Fowmitha Banu, P. Vignesh, K. Sridhar and **M. Govindaraju** (2021), Assessment of "Ambient Air Quality Status in Tiruchirappalli City". Pollution Research (4) Issue.
9. Rajiv Das Kangabam, Muthu Selvaraj, **Munisamy Govindaraju**, (2019), "Assessment of Land Use Land Cover Changes in Loktak Lake in Indo Burma Biodiversity Hotspot using Geospatial Techniques". The Egyptian Journal of Remote Sensing and Space Sciences, Elsevier, Vol 22, pp137-143. **IF-3.670**
10. **M.Govindaraju**, R.S.Ganeshkumar, P.Suganthi, V.R. Muthukumaran, P.Kumar, P.Visvanathan, (2018), " Production of Polyclonal Antibody against Rubisco Protein

and its Functional Analysis in Selected Plants Grown under Air Pollution Stress Environment”. Indian Journal of Plant Physiology. Springer, Germany Vol 23, Issue 2, pp 201- 208.**IF-0.810**

11. P. R. Abhilash, K. Suganthi, B. Sarojini Devi and M. Govindaraju (2018). “Assessment of spatio-temporal variations of water quality parameters of Noyyal river, Tiruppur area”. NDCWWC Journal. Vol 7, Issue 1, 5-9.
12. Rajiv Das Kangabam, Muthu Selvaraj & **MunisamyGovindaraju** (2018). “Spatio-temporal analysis of floating islands and their behavioral changes in Loktak Lake with respect to biodiversity using remote sensing and GIS techniques”. Environmental Monitoring and Assessment. Springer, Germany, 190: 118. DOI:10.1007/s10661-018-6485-x(**IF- 1.804**)
13. Suganthi K, Sarojini Devi B, Suganthi P, **Govindaraju M** (2017). “Evaluation of potential storage of organic carbon in soil and trees: A case study”. International Journal of Ecology and Development. India Vol 32, Issue 4, pp 29-38.
14. Rajiv Das Kangabam and MunisamyGovindaraju (2017). “Anthropogenic activity-induced water quality degradation in the Loktak lake, a Ramsar site in the Indo-Burma biodiversity hotspot”. Environmental Technology. Taylor&Francis, UK, DOI: 10.1080/09593330.2017.1378267 (**IF-1.666**)
15. T. Selvankumar, C. Sudhakar, **M. Govindaraju**, K. Selvam, V. Aroulmoji, N. Sivakumar, M. Govarthanan (2017). “Process optimization of biogas energy production from cow dung with alkali pre-treated coffee pulp”. 3 Biotech, Springer, Germany, 3-8. (**IF– 1.497**)
16. Rajiv Das Kangabam, Sarojini Devi Boominathan, Suganthi Kanagaraj, **Govindaraju Munisamy** (2017). “Development of a Water Quality Index (WQI) for the Loktak Lake in India”. Applied Water Science. Springer, Germany Vol 7, Issue 6, pp 2907–2918
17. Suganthi Kanagaraj, Muthu Selvaraj, Rajiv Das Kangabam, **Govindaraju Munisamy** (2017). “Assessment of Tree Species Diversity and its Distribution Pattern in Pachamalai Reserve Forest, Tamil Nadu”. Journal of Sustainable Forestry. Taylor & Francis, India Vol. 36, Issue 1, pp 32-46. **IF:1.27**

Books (Papers as Monograph)

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1. **Munisamy Govindaraju**, J. Fowmitha Banu, K. Sridhar, P. Vignesh, K. Rangarajan, B.K. Tyagi (2021) Identification and Mapping of Mosquitoes Breeding Habitats in Tiruchirappalli City Using Remote Sensing and GIS, Centre for Climate Change, Bharathidasan University, Genetically Modified and other Innovative Vector Control Technologies, 978-981-16-2963-1 Publisher-Springer Nature.
2. **Munisamy Govindaraju**, S, Senthamilselvi, Malti Goel and J. Fowmitha banu (2020) “CO₂ Sequestration Through Phytoremediation Techniques with Special Emphasis on Urban Forestry to Mitigate Climate Change Impact”. Climate Change and Green Chemistry of CO₂ Sequestration. Pg 263 -271, ISSN 1865-3529 Publisher-Springer.
3. P. Suganthi, **Munisamy Govindaraju**, Rajiv Das Kangabam, K. Suganthi, V. Thenmozhi, B. K. Tyagi, (2018), Identification and Mapping of Breeding Habitats of the Filariasis Vector, *Culex quinquefasciatus* Say, 1823, Using Remote Sensing and GIS Technologies: A Case Study from the Endemic Tamil Nadu State, India. Lymphatic Filariasis, Epidemiology, Treatment and Prevention- The Indian Perspectives. pg. 259-269. Publisher. Springer
4. K. Suganthi, K. Rajiv Das, M. Selvaraj, S. Kurinji, Malti Goel, **M. Govindaraju** (2017). “Assessment of Altitudinal Mediated Changes of CO₂ Sequestration by Trees at Pachamalai Reserve Forest, Tamil Nadu, India”. Carbon Utilization: Green Energy and Technology. Pg. 89-99.

Conference proceedings

- 1) National Symposium on Environment (NSE-20) on “**Mapping and Assessment of Spatial Distribution of Air quality parameters using Geographic Information System (GIS) for Tiruchirappalli City Corporation**” in Earth Sciences, Indian Institute of Technology (IIT), held on 13, 14 and 15th December 2018, Gandhinagar, Gujarat.
- 2) **International** Conference on Current Scenario of Physiology and Behaviour (CSPB2019), Paper entitled on “**Ambient air pollution and its impact on mental health-an overview**” oral presented in Department of Zoology, **Periyar University**, Salem held on March 2019.
- 3) **National** Seminar on Biodiversity for Human Welfare: Current and Future Trends-India (BHCFTI-2019), Paper entitled on “**Ambient air pollution and its impacts on Urban Biodiversity-an overview**” presented in Department of Zoology, **St. Joseph University**, Dimapur, Nagaland held on November 2019.