Name : **Dr. S. Ramu**
Staff ID : **RCAS05876**
Designation : **Assistant professor**
Department : **Biotechnology**
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ACADEMICS

Degree	Branch	Institution / University	Year of Completion
BSc	Biotechnology	Bharathidasan University	2011
MSc	Biotechnology	Bharathidasan University	2013
PhD	Biotechnology	Bharathidasan University	2021

Diploma / Certification	Specialization	Institution / University / Agency Name	Year of Completion
PGDBPT	Biotechnology	National College (Autonomous) UGC Sponsored Certificate course	2013-2014

RESEARCH AND PUBLICATIONS

SEED MONEY

Title	Institution	Amount	Year	Status
Vermistabilization of Textile Sludge by Epigeic Earthworm Eudrilus Eugeniae for Sustainable Environmental Management	Vivekanandha College of Arts and Sciences for Women	Rs.25000	2023	Completed

Journal Publications

Silambarasan, M., Suresh, P., Pradeesh, G., Ramu, S., Pooja Shakshi, H., Guganathan, L., Vishwanathan, K., Thangam, M., Boopathiraja, R., & Srinivasan, G. (2025). Fabrication of spinel $MnCo_2O_4$ nanocrystal and its electrochemical, magnetic, and antibacterial performance. *ChemistrySelect*, *10*(1), e03166.

Shanmugam, E., Subbaiyan, B., Shakshi, P., Begum, B., Selvam, R., Gnanendra, T. S., & Balasubramanian, R. (2025). Vermicomposting: A potential technology facilitating sustainable textile waste management. *Journal of Material Cycles and Waste Management.* Advance online publication. https://doi.org/10.1007/s10163-025-02286-5

Selvam, R., Ramesh, P., Pitchaimani, J., Rex, G. R., Santhamoorthy, M., & Sadasivam, S. K. (2025). Biotransformation of textile industry sludge through vermicomposting with the earthworm *Eudrilus eugeniae*: Investigation of GC–MS and genotoxic assessment. *Soil and Sediment Contamination: An International Journal*. Advance online publication. https://doi.org/10.1080/15320383.2025.2497859

Silambarasan, M., Ramesh, K., Shawla, K., Nishanthini, S., Janani, R., Pavithra, G., Madhumitha, P., Kavya, T., Soundhirarajan, P., Ramu, S., Gnanendra, S., & Dinesh, A. (2025). Oil bath approach of nickel phosphate ($Ni_3(PO_4)_2$) nanocrystal and their structure and functional properties. *Chemical Papers*

Silambarasan, M., Suresh, P., Boopaathiraja, R., Subalakshmi, K., Kavishna, R. S., Shanmugam, M., Ramu, S., & Gnanendra, T. S. (2025). Facile two-step approach of chitosan/nickel/ZrO_2 bio-nanocomposite and investigation of their antimicrobial activities against *Escherichia coli*. *Journal of the Indian Chemical Society.*

Muruganandham, T., Bankole, P. O., Selvam, R., Govindwar, S. P., & Sadasivam, S. K. (2020). Synergistic effect of biological and advanced oxidation process treatment in the biodegradation of Remazol yellow RR dye. *Scientific Reports*, *10*(1), 20234. https://doi.org/10.1038/s41598-020-77376-5

Ramu, S., Bhavatharini, S., Muruganandham, T., Varuna, K., Jaswinder, S., & Senthil Kumar, S. (2020). Biorestoration of textile effluent polluted soil via vermistabilization. *Bioscience and Biotechnology Research Communications, 13,* 689–696.

Sadasivam, S. K., & Ramu, S. (2020). Biorestoration of textile industry sludge through vermistabilization and subsequent genotoxic assessment in *Allium cepa*. *Bioscience Biotechnology Research Communications*, *13*(2), 737–747.

Deepa, S., Sadasivam, S. K., Ramu, S., Varuna, K., & Infancia, L. (2019). Bioconversion of textile industry sludge into soil-enriching material through vermistabilization. *Research and Reviews: A Journal of Life Sciences*, *9*(1), 51–58.

Abubacker, M. N., Thirugnanam, M., Sadasivam, S., & Ramu, S. (2018). Microbial degradation of textile effluent and genotoxic effects. *International Research Journal of Environmental Science, 7*(8), 1–7.

Ramu, S., Varuna, K., Infancia, L., Deepa, S., & Senthil Kumar, S. (2018). Earthworm-aided biorestoration of textile effluent polluted soil. International Journal of Research and Analytical Reviews, 4(4), 1199–1212.

Muruganandham, T., Ramu, S., Kaushik, S., Raja, R., & Senthil Kumar, S. (2017). Combined biological and advanced oxidation process for textile dye wastewater treatment. *International Journal of Science and Engineering Investigations*, 6(60), 92–97.

Jaabir, M. S. M., Ramu, S., Shabeer, N., Shantkriti, S., & Senthilkumar, S. (2014). Preliminary evaluation of larvicidal efficacy of coelomic fluid. *International Journal of Pharmaceutical Science Invention, 3*(8), 2–6**.**

Invited Speaker / Session Chair- Conference / Seminar / Workshop

Workshop on "Toxicity Assessment of Polluted Water" organized by the Department of Biotechnology. Dhanalakshmi Srinivasan College Arts and Science for Women, Bharathidasan University, Truchirappalli-24

One Day Hands-on Training in "Plant Chromosomal Aberration Assay" organized by GeoBiotechnology Laboratory.National College (Autonomous). Tiruchirappalli-620001.