

Name : Yuvarani M
Designation and Affiliation : Teaching Fellow,
Department of Applied Science and Technology,
AC Tech campus,
Anna University,
Chennai-600025.



Date of birth : 13-10-1991
Permanent Contact Address : 4, kizhandai street, nallur village,
Vadanallur village, uthiramerur taluk,
Kancheepuram- 603406.

| Examination | College Name | Area of Specialiazation | Year of passing | Marks Obtained(CGPA) |
|-------------|---|---------------------------------------|---|---|
| Ph.D | Anna University /ACT campus, Guindy. | BioEnergy-Biofuels | Currently Pursuing (Synopsis submitted at 16.07.2021) | 10 (course work mark) |
| UG | Anna university / Sri Ram Engineering college, chennai. | Chemical Engineering | 2013 | 8.23 (First class) |
| PG | Anna university / ACT campus, Guindy. | Petroleum refining and petrochemicals | 2015 | 8.62 (First class with Distinction) |

Area of Research:

- Bio-Energy-Biofuels
- Biorefinery
- Heterogeneous catalysis
- Thermodynamics

Research Projects: NA

| Funding Agencies | Title of the Project | Amount (Rs in Lakhs) | Status |
|-------------------------|-----------------------------|-----------------------------|---------------|
| NIL | | | |
| | Total | | |

Post doctoral research / Ph.D /M.Tech / MS Guidance:

PDF : NIL

Ph.D : NIL

M.E/M.Tech : NIL

Research publications:

| Category | Conferences | Journals |
|-----------------|--------------------|-----------------|
| National | 5 | |
| International | 4 | 14 |

Books:

International publications : NIL

Patent:

: NIL

Consultancy Assignments:

| Funding Agencies | Number of Projects | Amount (Rs in Lakhs) |
|-------------------------|---------------------------|-----------------------------|
| NIL | | |

Administrative Experience:

- Class Adviser for every semester for B.Tech-PET students from June 2015.
- Served as a Department coordinator of Internal Quality Assurance Cell (IQAC) from June 2015 to December 2020 and also Assisted with coordinator for NBA and NAAC.
- Served as a Resident counsellor from June 2017 to oct 2019, in AC Tech Hostel, Anna University, Chennai (1.5 years)

Awards/Recognitions:

NIL

TECHNICAL RESEARCH PUBLICATIONS

- Yuvarani M, Sivanesan. S, Green diesel production using hydroprocessing technique from madhuca longifolia seed oil. ICEEIS ENERGY-10, SALVATIO'18 (2018), ISBN:978-93-5291-459-3.

INTERNATIONAL JOURNALS

- D. Thiruselvi, A. Salma, **M. Yuvarani**, D. Jagadiswary, E.S. Jebarani, D. Anuradha, S. Palaniyandi, S. Sivanesan, (2021) Application of Artificial Neural Network as a nonhazardous alternative on kinetic analysis and modeling for green synthesis of cobalt nanocatalyst from *Ocimum tenuiflorum*. Journal of Hazardous Materials. 416, 125720.
- Devaraj Thiruselvi, Ponnusamy Senthil Kumar, Madhava Anil Kumar, Chyi-How Lay, Salma Aathika, **Yuvarani Mani**, D.Jagadiswary, Anuradha Dhanasekaran, Palaniyandi Shanmugam, Subramanian Sivanesan ,Pau-Loke Show., (2020) "A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives". International Journal of Hydrogen Energy.
- Thiruselvi, D., **Yuvarani, M.**, Salma, A., Arafath, Y., Jagadiswary, D., Kumar, M.A., Anuradha, D., Shanmugam, P. and Sivanesan, S., (2020). Enhanced biogas from sewage sludge digestion using iron nanocatalyst from *Vitex negundo* leaf extract: response surface modeling. International Journal of Environmental Science and Technology, pp.1-12.
- Rawoof, Salma Aathika Abdur, P. Senthil Kumar, Dai-Viet N. Vo, Kubendran Devaraj, **Yuvarani Mani**, Thiruselvi Devaraj, and Sivanesan Subramanian. "Production of optically pure lactic acid by microbial fermentation: a review." *Environmental Chemistry Letters* (2020): 1-21.
- **Mani Yuvarani.**, Devaraj Thiruselvi., Devaraj Kubendran., AbdurRawoof Salma Athika and Subramanian Sivanesan., (2020). Experimental investigation of biodiesel production from *Madhuca longifolia* seed through in situ transesterification and its kinetics and thermodynamic studies. Environmental Science and Pollution Research, pp.1-13.
- Devaraj, Kubendran, **Yuvarani Mani**, Salma Aathika Abdur Rawoof, Amudha Thanarasu, Anuradha Dhanasekaran, and Sivanesan Subramanian. "Feasibility of biodiesel production from waste cooking oil: lab-scale to pilot-scale analysis." Environmental Science and Pollution Research International (2020).

- Devaraj, Kubendran, Manivasagan Veerasamy, Salma Aathika, **Yuvarani Mani**, Amudha Thanarasu, Anuradha Dhanasekaran, and Sivanesan Subramanian. "Study on Effectiveness of Activated Calcium Oxide in Pilot Plant Biodiesel Production." *Journal of Cleaner Production* (2019).
- Thiruselvi D, **Yuvarani M**, Amudha T, Sneha R, Mariselvam AK, Anil Kumar M, Shanmugam P, Sivanesan S, "Synthesis of iron nano-catalyst using *Acalypha indica* leaf extracts for biogas production from mixed liquor volatile suspended solids", *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 40, (2018), pp.772-779
- Salma Aathika AR, Kubendran D, **Yuvarani M**, Thiruselvi D, Amuda T, Karthik P, Sivanesan S, "Enhanced biohydrogen production from leather fleshing waste co-digested with tannery treatment plant sludge using anaerobic hydrogenic batch reactor" *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* pp 1-8. (2018).
- Kubendran D, Salma Aathika, **Yuvarani M**, Amudha T, Karthik P, Premkumar MP, Karthikeyan V and Sivanesan S "Experimental Investigation on Cleaner process of Enhanced Fat-Oil Extraction from Alkaline Leather Fleshing Waste." *Journal of Cleaner Production* 175 (2018): 1-7.
- **Yuvarani, Mani**, Devaraj Kubendran, Abdur Rawoof Salma Aathika, Periyasamy Karthik, Manickam Periyaraman Premkumar, Velayutham Karthikeyan, and Sivanesan S. "Extraction and characterization of oil from macroalgae *Cladophora glomerata*." *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (2017): 1-7.
- Devaraj Kubendran, Abdur Rawoof Salma Aathika, Thanarasu Amudha, Devaraj Thiruselvi, **Mani Yuvarani**, S, Sivanesan. Utilization of leather fleshing waste as a feedstock for sustainable biodiesel production. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (2017): 1-10.
- Nilavunesan, D., Thiruvengadaravi, K. V., **Yuvarani, M.**, & Sivanesan, S. (2017). Modified zeolite as a catalyst for *Pongamia pinnata* oil esterification in biodiesel production. *International Journal of Materials and Product Technology*, 55(1-3), 278-285.

NATIONAL JOURNALS: NIL

INTERNATIONAL CONFERENCES

- Presented a paper in international conference on sustainable Technologies for industrial hazardous waste management and Bioenergy “Kinetics and Thermodynamics Approach for Biodiesel Production using Mahuca Longifolia Seed Through Insitu- Transesterification route” held on 7th -9th August 2019 at SRM Institute of Science and Technology, kattankulathur.
- Presented a paper in International Conference on Energy, Environment and Industrial Safety (ICEEIS) entitled “Green Diesel Production Using Hydroprocessing Technique from Madhuca Longifolia Seed Oil” held on 22nd and 23th February at Anna University, Chennai.
- Presented a paper in Global learning on mobile computing conference entitled “Biodiesel production from algal oil by immobilized enzyme catalyzed process” held on 9th -10th February 2017 at Anna University, Chennai.
- Presented a paper in 2nd international conference on Bioenergy, Environment & sustainable Technologies entitled “Heterogeneous catalytic process for biodiesel production” held on 28th-31st January 2015 at Arunai Engineering College, Thiruvannamalai.

NATIONAL CONFERENCES

- Presented a paper in National conference on chemistry and materials (NCCM-2019) on “Oil Separation from Madhuca Longifolia seed as a biofuel source” at Saveetha Engineering college, Chennai.
- Presented a paper in National conference on Biotechnology for Sustainable Development entitled “Potential, Production and Harvesting Technologies for Biodiesel Production From Microalgae-A Review” held on 22nd March 2019 at Arunai Engineering College, Thiruvannamalai.
- Presented a paper in National conference on Safety Environment and Industrial Applied Science & Technology (SEIAST) entitled “Removal of ammonia from effluent water using physio chemical methods” held on 4th-6th February 2015 at Anna University, Chennai.
- Presented a paper in National conference on Chemical, Energy & Environmental Engineering (CEEE) entitled “Extraction of biodiesel from vegetable oil by transesterification process” held on 28th February 2012 at SSN Engineering College, Chennai.
- Presented a paper in National conference on Bio-Chemical Rendezvous’ 11 entitled “Solid electronic waste management” held on 16th August 2011 at Veltech Engineering College, Chennai.

PATENTS

NIL

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|----------|---|
| Country | : |
| Title | : |
| App. No. | : |
| Status | : |

BOOKS

NIL

- 1. Title :
- Publisher :
- Year :
- Authors :