

# Faculty Profile

Dr. Manjula Sarode is an Assistant Professor in the Department of Chemical Engineering, with over 15 years of teaching and 5 years of research experience. She holds a B.Tech. and M.Tech. in Chemical Engineering, and earned her Ph.D. from Central Food Technological Research Institute, Mysore University. Dr. Manjula has authored international and national journal publications, and has presented her work at both national and international conferences. Since joining the institution, she has guided numerous UG and PG projects. Her work spans Membrane Technology, Food processing, Process Simulation and Modeling and Nanotechnology, reflecting her deep commitment to academic excellence and innovation.



## Personal Information

- **Name:** Dr. Manjula Sarode
- **Designation:** Assistant Professor
- **Department:** Chemical Engineering
- **Email:** **Phone:** 080-67178457

**Google Scholar :** <https://scholar.google.co.in/citations?user=jMzcNKEAAAAJ&hl=en>

**ORCID:** <https://orcid.org/0000-0002-5711-2287>

## Domain of Expertise :

### Research Focus :

- **Allied Areas:** Food Processing, Nanomaterials and applications

## Academic Qualifications

- **Ph.D.:** Application of Membranes and Enzymes in Processing Vegetable Oils, Central Food Technological Research Institute
- **M.Sc./M.Tech:** Chemical Engineering, S.V. University College of Engineering, Tirupathi, India
- **B.E./B.Tech:** Chemical Engineering, S.V. University College of Engineering, Tirupathi

## Professional Experience

| Experience |                            |           |                     |
|------------|----------------------------|-----------|---------------------|
| S.No       | Institute/College/Industry | Job Title | Duration (From- To) |

|    |                                               |                     |                           |
|----|-----------------------------------------------|---------------------|---------------------------|
| 1. | RV College of Engineering                     | Assistant Professor | 2011 to Present           |
| 2. | SRM University, Chennai                       | Assistant Professor | January 2010 – June 2010. |
| 3  | Central Food Technological Research Institute | Research Scholar    | May 2004 - December 2009  |

## Publications

### Journal Publications

1. **Manjula, S.** and R. Subramanian, Membrane technology in degumming, dewaxing, deacidifying, and decolorizing edible oils, *Critical Reviews in Food Science and Nutrition*, 2006, 46:569-592
2. **Manjula, S.** and R. Subramanian, Membrane technology in degumming, dewaxing, deacidifying, and decolorizing edible oils, *Critical Reviews in Food Science and Nutrition*, 2006, 46:569-592
3. Sarita Arora, **S. Manjula**, A.G. Gopalakrishna and R. Subramanian, Membrane processing of crude palm oil, *Desalination*, 2006, 191:454-466
4. **Manjula, S.** and R. Subramanian, Enriching oryzanol in rice bran oil using membranes, *Applied Biochemistry and Biotechnology*, 2008, 151:629-637
5. **Manjula, S.** and R. Subramanian, Laboratory studies on deoiling of lecithin, *Journal of the American Oil Chemists Society*, 2008, 85:574-580
6. **Manjula, S.** and R. Subramanian, Simultaneous degumming, dewaxing and decolorizing crude rice bran oil using nonporous membranes, *Separation and Purification Technology*, 2009, 66:223-228
7. **Manjula, S.,** S. Divakar and R. Subramanian, Evaluation of phosphoglycolipid elimination from rice bran oil by a nonporous membrane using NMR spectroscopy, *European Journal of Lipid Science and Technology*, 2009, 111:1020-1026
8. **Manjula, S.,** Anju Jose, S. Divakar and R. Subramanian, Degumming rice bran oil using phospholipase-A1, *European Journal of Lipid Science and Technology*, 2011, 113:658-664
9. **Manjula, S.,** H. Nabetani and R. Subramanian, Flux behavior in a hydrophobic dense membrane with undiluted and hexane-diluted vegetable oils, *Journal of Membrane Science*, 2011, 366:43-47.
10. Shruthi N Kumar, **Manjula Sarode**, Ravishankar H N, Synthesis of titanium dioxide thin films and its application in reducing microbial load of milk, , doi: <https://doi.org/10.1101/045179> , bioRxiv ,2016.
13. T Husain, K Vora, US Meda, **M Sarode**, V Kallur, Modeling and Simulation of Manufacturing Process of Paracetamol, *ECS Transactions* 107 (1), 4389
- 14.: **Manjula Sarode**, Akanksha Shetty, Vinutha Moses, Application of Nanotechnology in Food Industry: Review, *Bulletin for Technology and History* Vol 24 Issue 6, Page No:85-102.
15. **Manjula Sarode**, Vinutha Moses, Sharva Jois, Application of Bio-Nano Composites in Water Treatment, *Journal of Engineering and Technology Management*

### Conference Papers

1. **Manjula, S.,** S. Divakar and R. Subramanian, Evaluation of nonporous membranes for the removal of phosphoglycolipids in rice bran oil. In *Proceedings of International Food Convention*,

IFCON-2008, 15-19 December, Mysore (**Adjudged as the best paper in Fats and Oils category**)

2. **Manjula, S.** and R. Subramanian, Enriching oryzanol in rice bran oil using membranes. In *Proceedings of New Horizons in Biotechnology, NHBT-2007*, 26-27 November, Trivandrum (**Adjudged as the best paper in Food and Agricultural Biotechnology category**)
3. **Manjula, S.**, Sarita Arora and R. Subramanian, Improvement of oil flux in a nonporous membrane with hexane dilution. In *Proceedings of International Congress on Membranes and Membrane Processes, ICOM-2005*, 21-26 August, Seoul
4. Sarita Arora, **S. Manjula**, A.G. Gopalakrishna and R. Subramanian, Membrane processing of crude palm oil, In *Proceedings of International Congress on Membranes and Membrane Processes, ICOM-2005*, 21-26 August, Seoul.
5. Sindhu R, Surendra singh Bisht, **Manjula Sarode**, "Isolation of cellulose and its chemical modification" *Proceedings of International conference on advances in Engineering research*, Bengaluru on 11th September 2016.
6. Sindhu R, Surendra singh Bisht, **Manjula Sarode**, "Isolation of cellulose and its chemical modification" presented at National Conference on Engineering, Technology and Management held at R. V. College of Engineering, in Bengaluru, on 22-23rd April 2016
7. Manjula Vibhuti, **Manjula Sarode**, Waste water treatment using green synthesized copper nanoparticles from Aloe Vera Extract "Knowledge Dissemination of Project and Research Works" during 7-8 May 2018 @ RVCE, Bangalore

## Awards & Recognitions

- CSIR-Junior Research Fellowship (GATE) award CSIR, 2004

## Student Supervision

- M.Tech/M.Sc. Students: 08
- Undergraduate Research Mentees: 25

## Professional Roles

- Reviewer in Elsevier journal

## Teaching

- Core Courses: Process Simulation and Modeling. Food Engineering, Global Climate Change, Chemical Plant Utilities

## Advanced/Lab Courses:

- Process Simulation and Modelling Lab (Unisim, Aspen HYSYS)

## Responsibilities:

Administrative: Time Table Committee member, Compliance committee member, Process Simulation Lab Incharge