

Dr. Govindarajan Rajendran

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EXPERIENCE

Assistant Professor (Selection Grade) **July 2018 – Present**
Dept. of Chemical Engg, Hindustan Institute of Technology and Science,
Padur, Chennai, Tamil Nadu, India.

Head and Associate Professor **Jul 2016 – June 2018**
Dept. of Food Technology, JCT College of Engineering & Technology,
Pichanur, Coimbatore, Tamil Nadu, India.

Assistant Professor **Dec 2014 – Jun 2016**
Dept. of Chemical Engg, Mohamed Sathak Engineering College,
Kilakarai, Ramanathapuram, Tamil Nadu, India.

Senior Research Fellow **May 2010 – Feb 2013**
National Institute of Technology, Tiruchirappalli, Tamil Nadu, India.

EDUCATION

Doctor of Philosophy in Chemical Engineering **Feb 20**
Dept. of Chemical Engineering,
National Institute of Technology, Tiruchirappalli, Tamil Nadu, India.

Master of Technology in Chemical Engineering **May 2008**
Dept. of Chemical Engineering, A.C.Tech Campus,
Anna University, Chennai, Tamil Nadu, India.

Bachelor of Technology in Pharmaceutical Engineering and Technology **April 2006**
Dept. of Pharmaceutical Engineering & Technology,
Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.

SALIENT PROJECT AND DESCRIPTIONS

- 1. Environmentally benign aqueous biphasic system for effective separation of cheese whey proteins (α -lactalbumin and β -lactoglobulin) from dairy effluents.**
Dept. of Chemical Engineering,
National Institute of Technology, Tiruchirappalli May 2010 – October 2014
- 2. The density and viscosity estimation of aqueous two-phase system (PEG 6000 & tri-Ammonium citrate).**
Dept. of Chemical Engineering, A.C.Tech Campus,
Anna University, Chennai, India July 2007 - May 2008
- 3. Design, fabrication and evaluation of mini Fermenter for production of antibiotics from marine microorganisms.**
Dept. of Pharmaceutical Engineering & Technology,
Bharathidasan University, Tiruchirappalli, India November 2005 – April 2006

PUBLICATIONS

- Asaithambi, P., **Govindarajan, R.**, Busier Yesuf, M., Selvakumar, P., & Alemayehu, E. "Enhanced treatment of landfill leachate wastewater using sono(US)-ozone(O₃)-electrocoagulation(EC) process: role of process parameters on color, COD and electrical energy consumption" *Process Saf. Environ. Prot.*, 2020, 142, 212-218.
- Asaithambi, P., **Govindarajan, R.**, Yesuf, M. B., & Alemayehu, E. "Removal of color, COD and determination of power consumption from landfill leachate wastewater using

- an electrochemical advanced oxidation processes” *Sep. Purif. Technol*, 2020, 233, 115935.
3. S. Krishnamoorthy, R. Selvasembian, **G. Rajendran**, S. Raja, T. Wintgens, “Editorial: Emerging technologies for wastewater treatment and reuse” *Water Sci. Technol.* 80 (2019) iii–iv. <https://doi.org/10.2166/wst.2020.088>.
 4. **Govindarajan, R.**; Perumalsamy, M. “Phase Equilibrium of Polyethylene Glycol (PEG) 2000 + Triammonium Citrate + Water System Relating PEG Molecular Weight, Cation, Anion with Effective Excluded Volume, Gibbs Free Energy of Hydration, Size of Cation, and Type of Anion at 298.15, 308.15, and 318.15 K” *J. Chem. Eng. Data*, 2013, 58 (11), pp 2952–2958.
 5. **Govindarajan, R.**; Divya, K.; Perumalsamy, M. “Phase Behavior and Density for Binary and Ternary Solutions of PEG 4000 + Triammonium Citrate + Water Aqueous Two-Phase Systems at Different Temperatures” *J. Chem. Eng. Data*, 2013, 58 (2), pp 315–321.
 6. Regupathi, I.; **Govindarajan, R.**; Amaresh, S.; Murugesan, T. “Densities and Viscosities of Polyethylene Glycol 6000 + Triammonium Citrate + Water Systems” *J. Chem. Eng. Data*, 2009, 54 (12), pp 3291–3295.
 7. Regupathi, I.; Shreela, M.; **Govindarajan, R.**; Amaresh, S.; Murugesan, T. “Liquid-Liquid Equilibrium of Poly(ethylene glycol) 6000 + Triammonium Citrate + Water Systems at Different Temperatures” *J. Chem. Eng. Data*, 2009, 54 (3), pp 1094-1097.
 8. Regupathi, I.; Shreela, M.; Amaresh, S.; **Govindarajan, R.**; Murugesan, T. “Densities and Viscosities of Poly(Ethylene Glycol) 4000 + Diammonium Hydrogen Phosphate + Water Systems.” *J. Chem. Eng. Data*, 2009, 54(3), pp 1100-1106.

PRESENTATIONS

1. **Govindarajan R**, Vignesh K, Mahendran G, Samsudeen N. “Upflow Membraneless Microbial Fuel Cell for COD Reduction and Power generation using Textile Effluent” poster presentation at *International Conference on Multifunctional and Hybrid Composite Materials for Energy, Environment and Medical applications (ICMHCEE 2019)*, NIT Tiruchirappalli, 09-11th Sep, 2019.
2. **Govindarajan R**, Ajith kumar R, Nandha kumar M, Perumalsamy M. “Optimization of Extraction of Cheese Whey Proteins using Response Surface Methodology” poster presentation at *International conference on New Horizons in biotechnology*, Trivandrum, India, 22-25th Nov 2015.
3. **Govindarajan R.**, Perumalsamy M. “Synergistic Two-Stage Extraction of Therapeutic Whey Proteins using Aqueous Biphasic System” poster presentation at *Biopartitioning and Purification Conference 2015 (BPP 2015)*, Vienna, Austria, 7-10th Jun 2015.
4. **Govindarajan R.**, Perumalsamy M. “Extraction of Cheese Whey Proteins using Environmentally Benign Aqueous Two-Phase System” poster presentation at *International Conference on Advances in Biotechnology and Bioinformatics (ICABB 2013)*, Pune, India, 25-27th Nov 2013.
5. **Govindarajan R.**, Perumalsamy M. “Extraction of Cheese Whey Proteins using PEG/Citrate Based Environmentally Benign Aqueous Two-Phase System” poster presentation at *17th International Conference on Biopartitioning and Purification (BPP 2013)*, Newport, RI, USA, 6-10th Oct 2013.
6. **Govindarajan R.**, Perumalsamy M. “Isolation of Cheese Whey Proteins using PEG/Salt based Aqueous Two-Phase System” poster presentation at *CHEMCON-2011*, Bangalore, India, 27-29th Dec 2011.

AWARDS & RECOGNITIONS

- **Senior Research Fellow** in DST project from May 2010 – Feb 2013.
- **International Travel Support by SERB, DST** for participation in *17th International Conference on Biopartitioning and Purification (BPP 2013)*, 6-10 Oct 2013, Newport, RI, USA.