

# Curriculum Vitae

## Debajyoti Goswami

---

### Personal Details:

**Address:** Debajyoti Goswami  
C/o. Samir Kumar Goswami  
55, Dr. G.C. Goswami Street, P.O. Serampore,  
Pin-712201, West Bengal, India

**Phone:** +91-033-26623038

**E-mail:** dgoswami2@rediffmail.com  
dgoswami@che.iitkgp.ernet.in

### Education:

- Doctor of Philosophy, Chemical Engineering  
Indian Institute of Technology, Kharagpur, India 2010
- Master of Technology, Chemical Engineering  
University of Calcutta, Calcutta, India 2001 1st class
- Bachelor of Technology, Chemical Engineering  
University of Calcutta, Calcutta, India 1999 1st class
- Bachelor of Science, Honours (Chemistry)  
University of Calcutta, Calcutta, India 1996 1st class

**Title of PhD dissertation:** “Surfactant Enhanced Lipase Catalyzed Oil Hydrolysis”.

### Teaching Experiences:

Worked for 2 years as Lecturer and H.O.D. in Department of Engineering Chemistry, Bengal College of Engineering and Technology, Durgapur, India.

**Research Experience:** Worked for 9 months as a “Project Associate” in a UGC major research project in Department of Chemical Engineering, University of Calcutta, Calcutta, India.

**Research Specialization:**  
Lipase Catalyzed Hydrolysis.

**Research Publications:**  
**Journal**

1. **D. Goswami**, R. Sen, J. K. Basu, S. De, Surfactant Enhanced Ricinoleic Acid Production using *Candida rugosa* Lipase, **Bioresource Technology**, 2010, **101** (1): 6-13.
2. **D. Goswami**, R. Sen, J. K. Basu, S. De, Maximization of Bioconversion of Castor Oil into Ricinoleic Acid by Response Surface Methodology, **Bioresource Technology**, 2009, **100** (18): 4067-4073.
3. **D. Goswami**, R. Shekhar, M. K. Purkait, J. K. Basu, S. De, Micellar Enhanced Base catalyzed Hydrolysis of Ethyl Acetate Using TTAB, **International Journal of Chemical reactor Engineering**, 2009, Vol. 7: Article 2. DOI: 10.2202/1542-6580.1855.
4. **D. Goswami**, J. K. Basu, S. De, Optimization of Process Variables in Castor Oil Hydrolysis by *Candida rugosa* Lipase with Buffer as Dispersion Medium, **Biotechnology and Bioprocess Engineering**, 2009, **14** (2): 220-224.
5. **D. Goswami**, A. D. Patil, A. V. Patwardhan, J. K. Basu, S. De, Hydrolysis of Castor Oil using Lipase with Oil as Dispersion Medium, **International Journal of Chemical Sciences**, 2007, **5** (4): 1487-1496.
6. **D. Goswami**, J. K. Basu, S. De, Erucic Acid Production using Porcine Pancreas Lipase: Enhancement by Mixed Surfactants, accepted in **Biotechnology and Bioprocess Engineering**.
7. **D. Goswami**, J. K. Basu, S. De, Micellar Enhanced Base Catalyzed Hydrolysis of Isopropyl Myristate Using Cetyltrimethylammonium bromide, submitted to **International Journal of Chemical Reactor Engineering (Under Review)**.
8. **D. Goswami**, J. K. Basu, S. De, Selective and Optimal Hydrolysis of Mustard Oil to Erucic Acid: A Biocatalytic Approach, submitted to **Chemical Engineering Journal (Under Review)**.
9. **D. Goswami**, S. De, J. K. Basu, Kinetics Study of Surfactant Enhanced Lipase Catalyzed Oil Hydrolysis, submitted to **World Journal of Microbiology and Biotechnology (Under Review)**

10. **D. Goswami**, J. K. Basu, S. De, Lipase Catalyzed Castor Oil Hydrolysis: A Review (**Under Preparation**).
11. **D. Goswami**, S. De, J. K. Basu, Effects of Process Variables and Additives on Mustard Oil Hydrolysis by Porcine Pancreas Lipase (**Under Preparation**).
12. **D. Goswami**, J. K. Basu, S. De, Lipase Catalyzed Mustard Oil Hydrolysis: A Review (**Under Preparation**).

### **Conference**

1. **D. Goswami**, J. K. Basu, S. De, Effect of Additives and Process Parameters on Lipase Catalyzed Ricinoleic Acid Esterification and Castor Oil Hydrolysis, **YRC-2009**, Mumbai.
2. **D. Goswami**, C. Das, S. DasGupta, J. K. Basu, S. De, Process Condition Optimization of Micelle Catalyzed Isopropyl Myristate Hydrolysis, **CHEMCON 2007**, Kolkata.
3. **D. Goswami**, A. D. Patil, C. Das, A. V. Patwardhan, S. DasGupta, J. K. Basu, S. De, Selection of Suitable Lipase and Process Condition Optimization of Lipase Catalyzed Castor Oil Hydrolysis, **CHEMCON 2007**, Kolkata.
4. **D. Goswami**, A. D. Patil, A. V. Patwardhan, J. K. Basu, S. De, Hydrolysis of castor Oil using lipase with oil as dispersion medium, **NCFCE 2007**, Guwahati.
5. **D. Goswami**, R. Shekhar, S. DasGupta, S. De, Micellar Enhanced Base Catalyzed Hydrolysis of Ethyl Acetate Using TTAB, **ISSCS 2007**, Kolkata.
6. C. Das, **D. Goswami**, S. Dasgupta, S. De, Treatment of Deliming-bating Effluent from tannery using Coagulation and Membrane Separation, **CHEMCON 2007**, Kolkata.
7. C. Das, **D. Goswami**, S. DasGupta, S. De, Treatment of Dyeing Effluent from Tannery using Pretreatment and Nanofiltration, **CHEMCON 2007**, Kolkata.
8. C. Das, S. Pasupuleti, **D. Goswami**, S. DasGupta, S. De, Simultaneous Separation of Cationic and Anionic Pollutants Using Mixed Micellar System, **ISSCS 2007**, Kolkata.