CURRICULUM VITAE OF **Dr.LIMA ROSE MIRANDA**

Name : **LIMA ROSE MIRANDA**

Position : **Professor**

Year of Experience : 21 years

Education : Ph.D (Chemical Engg), - IIT Madras, India

M.Tech (Chem. Engg), IIT Madras, India

B.Tech (Chem. Engg), A.C.Tech, Anna University

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A.C. Tech Campus, Anna University, Chennai-600 025, India
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Employment Record:

Period	Designation and Address	Nature of Job
Dec 2018 - Present	**Professor and Head** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching , Research and Administration
Dec 2010 - Nov 2018	**Professor,** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching and Research
Feb 2003 - Dec 2010	**Assistant Professor,** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching and Research
Sep 1997 - Feb 2003	**Senior Lecturer** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching and Research
Jan 1992 - Sep 1997	**Lecturer** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching and Research

Abroad Assignment:

NIL

Area of Expertise:

- Preparation of Activated Carbon from indigenous sources and their characterization.
- Adsorption using Activated Carbon of industrial effluents.
- Hydrodynamics and Mass transfer studies involving three phases in circulating fluidized beds.
- Design and Development of software packages on Chemical Reaction Engineering (Learner and Designer Module)
- Photochemical, photo catalytic reactor for the treatment of Hazardous materials in liquid effluents.
- Fluidization characteristics in inclined fluidized bed.

Membership of professional bodies:

Ø **Life Member:** Indian Institute of Chemical Engineers (IIChE), **India**

Awards/Honors:

- Recipient of GATE scholarship for the M.Tech programme
- Recipient of IIT Fellowship for the Ph.D programme

Ongoing Projects:

- Photocatalytic degradation of effluents using nano semiconductor Photocatalyst UGC India.
- Synthesis and characterization of heteroatom functionalized carbon nanotubes using MCM-41 molecular sieves via CCVD technique. UGC sponsored project
- Preparation of activated carbon from biomaterials and its application in waste water treatment.
- Segregation in Fluidized bed reactor.

National /International Collaboration:

NIL

Theses guided:

Ph.D :2 (competed), 2(Thesis submitted) MS/MTech : 53(Completed)

PUBLICATIONS

No of Book/Book Chapter written : 0
No of papers published in National journal : 5
No of papers published in International journal : 39

Book Chapter: NIL

List of papers published in 2010-2014:

1. Padmini Ellappan and **Lima Rose Miranda**, Synthesis and Characterization of Cerium Doped Titanium Catalyst for the Degradation of Nitrobenzene Using Visible Light, International Journal of Photoenergy Volume 2014, Article ID 756408, 9 pages
2. E. Padmini, **Lima Rose Miranda**, Nanocatalyst from sol–sol doping of TiO_2 with Vanadium and Cerium and its application for 3,4 Dichloroaniline degradation using visible light, Chemical Engineering Journal 232 (2013) 249–258
3. Thambiannan Senthilkumar, Rajendran Raghuraman, **Lima Rose Miranda**, "Parameter Optimization of Activated Carbon Production from Agave sisalana and Punica granatum Peel: Adsorbents for C.I. Reactive Orange 4 Removal from Aqueous Solution" CLEAN – Soil, Air, Water, 10.1002/clen.201100719(2013), 1-11
4. Selva Ilavarasi P., Fathima Jalal and **Lima Rose Miranda**, "Biodiesel production from Mutton Tallow". International Journal of Renewable Energy Research, 1(2011), 46-50
5. Selva Ilavarasi P., Fathima Jalal and **Lima Rose Miranda**, "Fatty Methyl esters from Vegetable oils for use as a diesel fuel", International Journal of Renewable Energy Research, 1(2011), 33-37
6. M. Helen Kalavathy, **Lima Rose Miranda**, "Comparison of copper adsorption from aqueous solution using modified and unmodified Hevea brasiliensis saw dust." Desalination 255 (2010) 165–174
7. Michael Angelo Miranda · P. Dhandapani , M. Helen Kalavathy · **Lima Rose Miranda**, "Chemically activated Ipomoea carnea as an adsorbent for the copper sorption from synthetic solutions", Adsorption (2010) 16: 75–84
8. Venkateshwarapuram Rengaswami Giri Deva, Jayarama Reddy Venugopal, Thamdiannan Senthil Kumar, **Lima Rose Miranda** and Seeram Ramakrishna, "Agave sisalana, a biosorbent for the adsorption of Reactive Red 120 from aqueous solution", The Journal of The Textile Institute Vol. 101, No. 5, May 2010, 414–422
9. M. Helen Kalavathy, **Lima Rose Miranda**, "Moringa oleifera—A solid phase extractant for the removal of copper, nickel and zinc from aqueous solutions", Chemical Engineering Journal 158 (2010) 188–199
10. Magesh Ganesh Pillai, Iyyasamy Regupathi, **Lima Rose Miranda**, Thanapalan Murugesan, "Moisture Diffusivity and Energy Consumption during Microwave Drying of Plaster of Paris", Chemical Product and Process Modeling Volume 5, Issue 1 (2010) Article 4.
11. Helen Kalavathy, B. Karthik, **Lima Rose Miranda**, "Removal and recovery of Ni and Zn from aqueous solution using activated carbon from Hevea brasiliensis: Batch and column studies", Colloids and Surfaces B: Biointerfaces 78 (2010) 291–302
12. Mahesh Ganesapillai, **Lima Rose Miranda**, Tejesh Reddy Micheal Bruno and Aruna Singh, "Modeling, characterization, and evaluation of efficiency and drying indices for microwave drying of Zingiber officianale and Curcuma mangga", Asia-Pac. J. Chem. Eng. (2010), Published online in Wiley InterScience (www.interscience.wiley.com) DOI:10.1002/apj.484
13. Padmini.E , Prakash Singh K, and **Lima Rose Miranda**, ": Photocatalytic degradation of Quinol and Blue FFs Acid using TiO2 and doped TiO2" Carbon letters 11 (2010) 332-335

14. C. Ahmed Basha, P. A. Soloman, M. Velan, **Lima Rose Miranda**, N.Balasubramanian, R. Siva , “Electrochemical degradation of specialty chemical industry effluent”, Journal of Hazardous Materials, Journal of Hazardous Materials Volume 176 (2010), Issues 1-3, 154-164