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Present Position

Associate professor, Department of Chemical Engineering, , Anna University, Chennai from December-2014.

Other Employment

- Associate Professor, SSN College of Engineering, Kalavakkam, Chennai for 1 Year 5Month.
- Assistant Professor, National Institute of Technology, Trichy for 1 Year 8 Month.
- Lecturer, Jubail Industrial College, Kingdom of Saudi Arabia for 2 Years 3 Month.
- Lecturer, Anjalai Ammal Mahalingam Engineering College for 5 Year 6 Month.

Degree

- ❖ M.Tech. in CHEMICAL ENGINEERING , A.C.Tech Anna University , Anna University (1999 - 2001).
- ❖ B.Tech. in CHEMICAL ENGINEERING , EGS Pillay Engineering College Nagapattinam, Bharathidasan University (1995 - 1999).

Research Degree

- ❖ Ph.D. in Modeling and Simulation from Faculty of Technology , A.C.Tech Anna University , Anna University (2006 - 2009).
Title: Residence Time Distribution Modeling for Parallel Plate Electrochemical Reactor.

Area of Specialisation

- Advanced oxidation process, Mathematical Modeling

Membership in Professional Organization

- Life member in Indian society for Technical education (ISTE LM37552)

- > Life Member in Indian Institute of Chemical Engineers (IChE) (LM28265)
- > International Association of Engineers (IAENG 131210)

Research Guidance

Number of Ph.D Scholars Guiding : 3
Number of M.E./ M.Tech. Projects : 6
Guided
Number of M.E./ M.Tech. Projects : 2
Guiding

Papers Published in Journals

Research Papers Published in International Journals : 26
Research Papers Published in National Journals : 1

1. V.Manimozhi, R.Saravanathamizhan , Dr.T.V.Subramanian, "Design of an adsorber for phenol in the refinery waste water using granular Activated carbon by BDST Method", Journal of Industrial pollution control, Vol. 18, pp. 191-199 (2002).
2. R. Saravanathamizhan, N. Mohan, N. Balasubramanian, V. Ramamurthi, C. Ahmed Basha, "Evaluation of electro oxidation of textile effluent using Response Surface Methods", Clean-Soil, Air, Water, Vol. 35, pp. 355-361 (2007).
3. R.Saravanathamizhan, P.A.Soloman, N.Balasubramanian, C.Ahmed Basha, "Optimization of in-situ electro-oxidation of formaldehyde by the response surface method", Chemical and Biochemical Engineering Quarterly, Vol. 22, pp. 213-220 (2008).
4. R.Saravanathamizhan, R.Paranthaman, N.Balasubramanian C. Ahmed Basha, "Residence time distribution in continuous stirred tank electrochemical reactor", Chemical Engineering Journal, Vol. 142, pp. 209-216 (2008).
5. R.Saravanathamizhan, R.Paranthaman, N.Balasubramanian C. Ahmed Basha, "Tanks in series model for continuous stirred tank electrochemical reactor", Industrial Engineering Chemistry Research, Vol. 47, pp. 2976-2984 (2008).
6. R.Saravanathamizhan, N. Balasubramanian, C.Srinivasakannan, "Comparison of Tanks-In-Series and Axial Dispersion Models for an Electrochemical Reactor", Journal of Modelling and Simulation of Systems, Vol. 1, pp. 171-175 (2010).
7. R.Saravanathamizhan, N. Balasubramanian, C.Srinivasakannan, "RTD Modeling for Parallel Plate Electrochemical Reactor", Journal of Modelling and Simulation of Systems, Vol. 1, pp. 68-73 (2010).
8. P. Asaithambi, Modepalli Susree, R. Saravanathamizhan, Manickam Matheswaran, " Ozone assisted electrocoagulation for the treatment of distillery effluent", Desalination, Vol. 297, pp. 1-7 (2012).

9. C. Ahmed Basha, R. Saravanathamizhan, P. Manokaran, T. Kannadasan, Chang Woo Lee, "Photoelectrocatalytic oxidation of textile dye effluent: Modeling using Response Surface Methodology", *Industrial Engineering Chemistry Research*, Vol. 51, pp. 2846-2854 (2012).
10. R.Saravanathamizhan, N.Balasubramanian, C.Ahmed Basha, "Treatment of Textile effluent using Continuous Stirred Tank Electrochemical Reactor", *International Journal on applied Bioengineering*, Vol. 6, pp. 1-5 (2012).
11. R.Saravanathamizhan, N.Balasubramanian, C.Ahmed Basha, "Artificial neural network modeling for decolorization of textile dye effluent", *Elixir Chemical Engineering*, Vol. 49, pp. 9842-9844 (2012).
12. C.Ahmed Basha, R. Saravanathamizhan, V. Nandakumar, K. Chitra, Chang Woo Lee, "Copper Recovery and Simultaneous COD Removal from Copper Phthalocyanine Dye Effluent Using Bipolar Disc Reactor", *Chemical Engineering Research and Design*, pp. 552-559 (2013).
13. Modepalli Susree , P. Asaithambi , R. Saravanathamizhan , Manickam Matheswaran, "Studies on various mode of electrochemical reactor operation for the treatment of distillery effluent", *Journal of Environmental Chemical Engineering*, Vol. 1, pp. 552-558 (2013).
14. V. Mathivanan, S. Geetha Manjari, R. Ineya, R.Saravanathamizhan P. Senthil Kumar, K. Ramakrishnan, "photocatalytic decolorization of reactive red by sonocatalysis using TiO₂ catalyst: factorial design of experiments", *Desalination water treatment*, (2014).
15. V.Nandhini, B. Suchithra, R.Saravanathamizhan, D.Gnana Prakash, "Optimization of parameters for dye removal by electro oxidation using Taguchi Design", *J. Electrochem. Sci. Eng.*, Vol. 4, pp. 227-234 (2014).
16. M. Somasundaram, R. Saravanathamizhan, C. Ahmed Basha, V. Nandakumar, S. Nathira Begum, T. Kannadasan, "Recovery of copper from scrap printed circuit board: Modelling and optimization using response surface methodology", *Powder Technology*, published by Elsevier. Vol. 266, pp. 1-6 (2014).
17. R. Saravanathamizhan, Kilaru Harsha Vardhan , D. Gnana Prakash, N. Balasubramanian, "RSM and ANN modeling for electro-oxidation of simulated wastewater using CSTER", *Desalination and Water Treatment*, (2014).
18. K. Iyappan,C. Ahmed Basha, R. Saravanathamizhan, N. Vedaraman, C.A. Tahiyah Nou Shene, S. Nathira Begum, "Electrochemical treatment of tannery effluent using a battery integrated DC-DC converter and solar PV power supply-an approach towards environment and energy management", *Journal of Environmental Science and Health, Part A* , Vol. 49, pp. 1149-1162 (2014).
19. P. Asaithambi, R. Saravanathamizhan, M. Matheswaran, "Comparison of treatment and energy efficiency of advanced oxidation processes for the distillery wastewater", *International Journal of Environmental Science and Technology*, (2014).
20. P. Asaithambi, R. Saravanathamizhan ,Manickam Matheswaran, "Kinetics studies of catalytic ozonation of distillery Effluent", *Desalination and Water Treatment*, (2014).

21. P.Manokaran, R. Saravanathamizhan, C. Ahmed Basha, T. Kannadasan, "Feed Forward Back Propagation Neural Network for the Electrooxidation of Distillery Effluent", Chemical Engineering Communications, Vol. 201, pp. 1404-1416 (2014).
22. V. Vijayakumar, R. Saravanathamizhan, N. Balasubramanian, "Electro oxidation of dye effluent in a tubular electrochemical reactor using TiO₂/RuO₂ anode", Journal of Water Process Engineering, Vol. 9, pp. 155-160 (2016).
23. Balakumara R, Sathya K, Saravanathamizhan R, "Decolourization of Methylene Blue Dye using sonocatalytic followed by Photocatalytic process", Water Conservation Science and engineering, Vol. 1, Issue 3, pp. 161 (2016).
24. K Sathya, R Saravanathamizhan, G Baskar, "Ultrasound assisted phytosynthesis of iron oxide nanoparticle", Ultrasonics Sonochemistry, Vol. 39, pp. 446-451 (2017).
25. V VIJAYAKUMAR, R SARAVANATHAMIZHAN, N BALASUBRAMANIAN, "MODELING OF TUBULAR ELECTROCHEMICAL REACTOR FOR DYE REMOVAL", Journal of Engineering Science and Technology , Vol. 12, Issue 6, pp. 1506-1513 (2017).
26. K.Sathya, R.Saravanathamizhan, G.Baskar, " Ultrasonic assisted green synthesis of Fe and Fe/Zn bimetallic nanoparticles for invitro cytotoxicity study against HeLa cancer cell line", Molecular biology reports, published by Springer Netherlands. Vol. 45, pp. 1397-1404 (2018).
27. K.Sathya, R.Saravanathamizhan, G.Baskar, "Green Synthesized Iron and Iron Based Nanoparticle in Environmental and Biomedical Application – A Review", IET Nanobiotechnology, published by IET Digital Library. Vol. 12, pp. 1003-1008 (2018).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 2
Research Papers Presented in National Programmes : 0

1. R.Saravanathamizhan, C.Ahmed Basha , "Photocatalytic Oxidation of Textile Dye Effluent Using Titanium Oxide Nano Particle in CSTR: Modeling and Optimization by RSM" presented in a International level conference on Jubail International Environmental Conference and Exhibition, organised by organized by Royal Commission for Jubail & Yanbu, Saudi Arabia from 05-Jun-2011 to 06-Jun-2011.
2. R.Saravanathamizhan, "Photo electrochemical conversion of CO₂ in to hydrocarbon fuel using nanocarbon based electrodes " presented in a International level workshop on Nanomaterials for clean water and Clean Energy, organised by VIT University, Chennai & Queen Mary University of London , INDIA and UK from 09-Feb-2015 to 11-Feb-2015.

Current Sponsored Projects

1. "Development of anode from petroleum pitch for high temperature electrolysis", funded by UGC (December-2017 - December-2018). Project Cost: 902000.00.

Sponsored Projects Completed

1. "Recovery of Metals from spent NiMH battery using ultrasonic-assisted leaching process", funded by CTD Anna University (September-2015 - September-2016). Project Cost: 49.00.

Programme Organized

1. Coordinator , National level Short Course on "Chemistry Related Problems in Thermal Power stations " from 28-Sep-2015 to 30-Sep-2015.

Programme Attended

1. Attended a National level Short Course on "The state of the Art –Analytical Instruments" organized by Department of Chemical Engineering, A.C.Tech, Anna University Chennai , India from 26-Oct-2015 to 30-Oct-2015.
2. Participated in a International level workshop on "Third International Workshop on Advanced Functional Nano materials" organized by Center for Nanoscience and Technology Anna University chennai , India from 16-Dec-2015 to 18-Dec-2015.

Experience Abroad

1. Visited Department of Chemical & Process Engineering Technology, Jubail Industrial College,, Kingdom of Saudi Arabia from 15-Mar-2009 to 01-Jul-2011. Purpose of visit :Teaching and Research .

Invited Lectures

1. Delivered a Lecture on "Management of Industrial Accidents" in AICTE -ISTE sponsored Short term Training programme on "Industrial safety and Environment organized by Department of Mechanical Engineering Anjalai Ammal, Kovilvenni, Thiruvarur (15-Mar-2004).
2. Delivered a Lecture on "Introduction to Design of Experiments" in collision 2007 organized by Department of Chemical Engineering Government Engi, Kerala (22-Mar-2007).
3. Delivered a Lecture on "Artificial Neural Network modeling for the treatment of industrial effluent using electrochemical Reactor" in STTP "Emerging technologies for Biotechnology and Chemical Processes organized by Department of Chemical Engineering , National Inst, Tiruchirappalli (31-Aug-2012).
4. Delivered a Lecture on "Introduction and applications of electrochemical Engineering" in Research avenues in multi interdisciplinary area of Chemical Engineering research organized by Department of Chemical Engineering , National Inst, Tiruchirappalli (25-Sep-2012).
5. Delivered a Lecture on "Modeling Techniques in wastewater Treatment Processes" in Remediation for clean and Green Environment organized by Department of Chemical Engineering , National Inst, Tiruchirappalli (30-Nov-2012).
6. Delivered a Lecture on "Fluid Mechanics and chemical Engineering Thermodynamics" in Methodology of preparation of Technical Interview for Campus Placement for prefinal year students organized by Department of Chemical Engineering , National Inst, Tiruchirappalli (13-Apr-2013).

7. Delivered a Lecture on "Modeling Aspects for wastewater Treatment Process" in TEQIP-II sponsored short term course on "Recent developments in wastewater Treatment Technologies organized by Department of Chemical Engineering, National Insti, Tiruchirappalli (06-May-2016).
8. Delivered a Lecture on "Ultrasonic assisted leaching process and Electrochemical Recovery of metals " in Faculty Dvelopment programme on Modern separation Process for Environmental applications organized by SSN College of Engineering, Kalavakkam Chennai (12-Dec-2016).
9. Delivered a Lecture on "Electro oxidation of Waste water Treatment : A RTD Modeling Approach" in Future Perspectives on Clean Energy and Clean Water TEQIP II Sponsored Training Programme organized by National Institute of Technology, Tiruchirappalli, National Institute of Technology, Tiruchirappalli (16-Feb-2017).
10. Delivered a Lecture on "Green Synthesis of Iron Oxide Nanomaterial and its Application" in Ionic Liquids in Green Chemical Processes & Sustainable Technologies National Conference organized by SSN College of Engineering, Kalavakkam Chennai (03-Aug-2017).