

CURRICULUM VITAE OF Dr.K.Chithra

Name : Dr. K.Chithra
Position : Associate Professor
Year of Experience : 24 years
Education : Ph.D (Chemical Engg), A.C.Tech, Anna University
M.Tech (Chem. Engg), A.C.Tech, Anna University
B.Tech (Chem. Engg),1994, A.C.Tech, Anna University



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Experience details:

	Designation and Address
Dec 2014-till date :	Associate Professor, Department of Chemical Engineering A.C.Tech Campus, Anna University Chennai-60025
June 12-Nov 2014 :	Assistant Engineer, Tamil Nadu Pollution Control Board, Chennai
Jan2011- May 2012 :	Professor, Department of Chemical Engineering SRM University, Kattankulathur
1995-96 :	Executive Engineer Dev Consultant, Chennai

Consultancy work:

- "Design adequacy report for STP" - Project Cost: Rs 0.5 Lacs.
- Evaluation study for assessing the change in pollution load in terms of Effluent, Air emission and Solid Waste generation - Project Cost: 1.75 Lacs

Area of Expertise:

- Nano particles for Environmental application.
- Advanced technique for the treatment of industrial effluent
- Role of nano particles in Rheological behavior of fluids
- Activated carbon/Biochar, MOF for adsorption of pollutants

Thesis guided :

- Ph.D : 02 Ongoing
- MS/M.Tech : 20 Completed

Publications :

National Journal - 01
International Journals -13

- List of Publications:**
1. Nivedha Ramanathan RM, Balasubramanian N & Chithra K, 'Biogas from confectionery wastewater with the application of ultrasound pre-treatment', Aug 2019, Energy sources, Part A: Recovery, Utilization, and Environmental effects <https://doi.org/10.1080/15567036.2019.1649747> .
 2. S Meenakshi, S Devi, K Pandian, K Chitra, P Tharmaraj. 'Aniline-mediated synthesis of carboxymethyl cellulose protected silver nanoparticles modified electrode for the differential pulse anodic stripping voltammetry detection of mercury at trace level', 2019, Ionics, pp1-11. <https://doi.org/10.1007/s11581-019-02858-0> .
 3. Chithra, K., Akshayaraj, R.T. & Pandian, K. 'Polypyrrole-Protected Magnetic Nanoparticles as an Excellent Sorbent for Effective Removal of Cr (VI) and Ni (II) from Effluent Water: Kinetic Studies and Error Analysis' Arab J Sci Eng (2018). <https://doi.org/10.1007/s13369-018-3421-x>.
 4. Dhivya Kumar, Chithra Kumaran, R. Saravanathamizhan., 'Heavy Metal Removal Using Modified Tungsten Oxide Fly Ash', May 2018, Water Conserv Sci Eng , pp 1-9.
 5. Kumaran Chithra., Kumar Dhivya., ' Modification and characterization of solid waste: an effective adsorbent for heavy metal removal' March 2017, Desalination and Water Treatment, Vol.67, pp168–177.
 6. Kumaran V, Venkatesh D, Chithra.K, 'Capture of carbon dioxide emitted from coal fired thermal power station using fly ash slurry' , 2015, International Journal of Chem Tech Research, Vol.8, No.11 pp 322-329.
 7. Chithra. K, Shweta Lakshmi. N and Abhishek Jain "Carica papaya seed as a biosorbent for removal of Cr (VI) and Ni (II) ions from aqueous solution: Thermodynamics and Kinetic analysis of experimental data." 2014, International Journal of Chemical Reactor Engineering, Vol.12 (1), pp.1–12.
 8. Vivek Kumar and Chithra .K, 'Removal of Cr (VI) from spiked soils by electrokinetics' August (2013), Research Journal of Chemistry and Environment, Vol.17 (8), pp.52-59.
 9. C. Ahmed Bashaa, R. Saravanathamizhan, V. Nandakumar, K. Chithra, Chang Woo Lee, 'Copper recovery and simultaneous COD removal from copper phthalocyanine dye effluent using bipolar disc' March 2013, Chemical Engineering Research and Design, Vol.91(3), pp. 552-559.
 10. K. Chithra , Anil Mapari, M. Somasundaram and Lima Rose

Miranda, 'Kinetic and Thermodynamic Studies of Chromium (VI) Biosorption on *Sporosarcina Pasteurii*' January, 2013, European Journal of Scientific Research, Vol. 95 (1), pp.50-62.

11. Chithra K and Balasubramanian N. 'Modeling electrocoagulation through adsorption kinetics' 2010, Journal of Modelling and simulation of systems Vol.1(2), pp. 124-130.
12. Chithra K., Thilakavathi R., Arulmurugan A. and Balasubramanian N. 'Treatment of Textile dye effluent using sacrificial electrode', July 2008, Modern Applied Science, Vol.2(4), pp.38-43.
13. Chithra K., Navaneeta Gopala Krishnan.A. and Karthikeyan R.'Electro Kinetic remediation of contaminated soils' 2007, Journal of the IPHE, Vol. 8(2),
14. Arulmurugan A., Chithra K., Thilakavathi R. and Balasubramanian N. 'Treatment of dye house effluent using electro coagulation method.' (2007), Bulletin of Electrochemistry No.107

Papers Presented in Conferences :

- "Degradation of Basic brown 4 dyes by Ozonation/H₂O₂/O₃ Processes in a batch reactor." - International level conference on Environment and Industrial Safety (SALVATIO'18),
- "Electrocoagulation of textile effluent" presented in a International conference on CHEMCON 2008,
- "Removal of selected heavy metals from contaminated soil" presented in a International conference CHEMCON 2005, IIT Delhi,
- "Activated carbon from Moringa Oleifera wood" presented in a International conference CHEMCON 2003

Programme chaired:

- Co Chairman, International level conference titled "CHEMCON 2016" conducted by Indian Institute of Chemical Engineers from 27-Dec-2016 to 30-Dec-2019

Programme Organized :

- STUDENT ADVISOR, National level conference on "CHENFLUENCE" from 01-Jul-2015 to 01-Jul-2016.
- Organizer, National level Short Course on "Faculty Development and Training Program on CH6605 Process Instrumentation Dynamics and Control" from 22-Nov-2017 to 29-Nov-2017.
- Convener, National level seminar on "Clean Healthy Environment by Sustainable Technologies, CHEST'18" from 27-Mar-2018 to 28-Mar-2018

Invited Lectures:
Engineering

- Delivered a Lecture on "Advanced Techniques in and Technology" in Faculty Development Programme organized by JEPPIAAR Engineering College, Chennai (21-May- 2019)

Programme Attended :

- Participated in a National level workshop on "Training programm on The state of the art-Analytical instruments" organized by A.C.Tech,26-Oct-2015 to 30-Oct-2015.
- Attended a National level Short Course on "FDP-GE6351 - ENVIRONMENTAL SCIENCE AND ENGINEERING" organized by Anna University,16-Jun-2016 to 23-Jun-2018.
- Attended a National level seminar on "Advances in Biofuels and Bioenergy" organized by Anna University, 24-Oct-2016 to 25-Oct-2016.
- Participated in a National level workshop organized by A.C.Tech, Anna University 26-Oct-2016 to 30-Oct-2016.
- Attended a National level Short Course on "Science

and Technology in Carbon dioxide Conversion" organized by GIAN, Anna University, 07-Nov-2016 to 18-Nov-2019.

- Attended a National level Short Course on "Knowledge management: Inter and multi-disciplinary perspective" organized by Anna University, 01-Feb-2018 to 21-Feb-2018.
- Attended a National level seminar on "Recent Trends in Chemical, Food, Energy and Environmental Engg 'CoFFEE'18 " organized by A.C.Tech Anna University, Mar-2018 to 16-Mar- 2018.
- Attended a International level seminar on "Frontiers in chemical process Industries' " organized by A.C.Tech Anna University,s