

Dr. Ushakumary E.R.
Professor



Contact Details

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Professional Qualifications

B-Tech	Specialization	Chemical Engineering
	Institute/University	Calicut University
M-Tech	Specialization	Chemical Engineering
	Institute/University	IIT Chennai
PhD	Specialization	Environmental Engineering
	Institute/University	CUSAT

Areas of Interest

: Environmental Engineering, Mass Transfer, Process Design ,
Food and preservatives

Professional Experience

- 2 years industrial experience
- 21 years teaching experience

Publications: Journal/conferences

- Ushakumary.E.R,Madhu.G (2014) “Removal of Cadmium, Chromium , Copper, Lead and Zinc ions by *Alisma Plantago Aquatica*” *International Journal of Environment and Waste Management*,Vol.13,No.1,PP. 75 – 89.
- Narayanan C. Viswanath, P. G. Dileep Kumar , K. K. Ammad , E. R. Usha Kumary (2015) ‘Ground Water Quality and Multivariate Statistical Methods ‘ *Springer International Journal of Environmental processes* pp.347-360
- Rangabhashiyam, S., Selvaraju, N., Raj Mohan, B., Muhammed Anzil, P., Amith, K., and Ushakumary, E.R (2015). "Hydrous Cerium Oxide Nanoparticles Impregnated *Enteromorpha* sp. for the Removal of Hexavalent Chromium from Aqueous Solutions” *Journal of Environmental Engineering ASCE C4015016-1 to 9*
- Fahad ,Geethu M, Gopika S Kumar, Greeshma S, Hussain M Usha Kumary and K.M.Peethambaran ‘Experimental study on production of biodiesel from chicken waste by alkali based Transesterification’ 2nd National Conference on systems, Energy and Environment NCSEE 2014, August 1-2, GEC , Kannur.
- Anila John, S.P.Kamble and Ushakumary E.R ‘Methylene blue removal using Orange peel and Saw dust- a comparison study’ 2nd National conference on Emerging Trends in Engineering (NET 2014) August 29-30 ,GEC Kozhikode.
- Dileepkumar P.G., Ammad K.K, Viswanath C Narayanan and Ushakumary E.R. ‘ Statistical analysis of quality of water using physico-chemical parameters in various water shed for Calicut city,

Kerala, India' 2nd National conference on Emerging Trends in Engineering (NET 2014) August 29-30 ,GEC Kozhikode.

- Gahana Gopal C., Kakasaheb Y Nandiwale, Vijay V Bokade and Ushakumary E.R. 'Esterification of free fatty acids with alcohols using Heteropoly acids' 2nd National conference on Emerging Trends in Engineering (NET 2014) August 29-30,GEC Kozhikode.
- Neeraja and Ushakumary E.R 'Removal of Pb(II) from an aqueous solution using Azadirachta Indica (Neem) leaf powder as an adsorbent' 3rd National conference on Emerging Trends in Engineering (NET 2015) October 30-31 ,GEC Kozhikode.
- Ushakumary E.R and Muhammed Anzil P.K 'Removal of hexavalent chromium using novel Enteromorpha Algae' 3rd National conference on Emerging Trends in Engineering (NET 2015) October 30-31 ,GEC Kozhikode.
- Sajitha Baby K.,Ushakumary E.R and Sajitha C.M. 'Biosorption of Cu (II) from aqueous solution using seeds of Amaranthus' 3rd National conference on Emerging Trends in Engineering (NET 2015) October 30-31 ,GEC Kozhikode.
- Sreebavya V.S., Ushakumary E.R. and Sajitha C.M. 'Production of ethanol from Duckweed and parameter estimation for fermentation using MATLAB' 3rd National conference on Emerging Trends in Engineering (NET 2015) October 30-31 , GEC Kozhikode.
- Deepak Roy George and, Ushakumary E.R 'CFD simulation of batch reactor using ANSYS Fluent' 4th National conference on Emerging Trends in Engineering (NET 2016) October 7-8 ,GEC Kozhikode.
- Maya S Nair, Suma K and Ushakumary E R "Pesticide removal in wine using membrane and its CFD analysis: a review" National Conference of the Kerala State Technological Congress (KETCON) 2019 ,Government Engineering College Thrissur.
- Ushakumary E.R.and Ani Poulose "Biodrying process for MSW: a review" National Conference of the Kerala State Technological Congress (KETCON) 2019 ,Government Engineering College Thrissur.
- Archana and Ushakumary E R " Synthesis of Tin oxide nano particles using egg shell membrane" National Conference (SAFE '19) on Safety and Fire Engineering

- Archana and Ushakumary E R “Preparation of sol-gel coating using green corrosion inhibitors” International conference on green energy for environmental sustainability- ICGEES 2020, NIT Calicut
- R Archana and E R Ushakumary “Studies on adsorption behaviour of bio char for the removal of malachite green dye from aqueous solution” International conference on Emerging Trends in Engineering - Yukthi 2021, September 24 -26, GEC Kozhikode
- Ani Poulse E and Dr.Ushakumari ER “Biodrying of municipal solid waste” International conference on Emerging Trends in Engineering - Yukthi 2021, September 24 -26, GEC Kozhikode

Project/Consultancy

- Centre for Engineering Research and Development (CERD) seed money project ‘Waste water treatment using Natural Adsorbents’.
- Centre for Engineering Research and Development (CERD) student project ‘Nutritional & physicochemical quality of thermally and non thermally pasteurized citrus juice’
- Centre for Engineering Research and Development (CERD) student project ‘Production of biodiesel from Chicken wastes’
- TEQIP II seed money project “Detection of pesticides in fresh vegetables and fruits samples using Gas Chromatography - Mass Spectrometry”
- Centre for Engineering Research and Development (CERD) student project ‘Production of Bioethanol from Agricultural waste’
- AICTE Grant-in-Aid under the Modernization and Removal of Obsolescence (MODROB) scheme.