

Name : **Dr.C.Karthikeyan**
Designation : Professor and Head of the Department
Address : Chemical Engineering, Annamalai University, Annamalai Nagar, Chidambaram, TN-608002
Email : drcktech@rediffmail.com
Phone No : 9171474175

Area of interest : Nano Technology, Environmental Pollution control, Waste water treatment, , Dye degradation

List of publications

AMK Pandian, **C Karthikeyan**, M Rajasimman. (2017). Isotherm and kinetic studies on adsorption of malachite green using chemically synthesized silver nanoparticles. *Nanotechnology for Environmental Engineering*. 2 (1), 2

AMK Pandian, **C Karthikeyan**, M Rajasimman, MG Dinesh. (2015). Synthesis of silver nanoparticle and its application. *Ecotoxicology and environmental safety* 121, 211-217

R Jayakumar, M Rajasimman, C Karthikeyan. (2015).Optimization, equilibrium, kinetic, thermodynamic and desorption studies on the sorption of Cu (II) from an aqueous solution using marine green algae: *Halimeda gracilis*. *Ecotoxicology and environmental safety* 121, 199-210

S Sathian, M Rajasimman, CS Rathnasabapathy, **C Karthikeyan**. (2014).Performance evaluation of SBR for the treatment of dyeing wastewater by simultaneous biological and adsorption processes. *Journal of Water Process Engineering* 4, 82-90

R Jayakumar, M Rajasimman, **C Karthikeyan**. (2015).Sorption and desorption of hexavalent chromium using a novel brown marine algae *Sargassum myriocystum* *Korean Journal of Chemical Engineering* 32 (10), 2031-2046

R Jayakumar, M Rajasimman, **C Karthikeyan**. (2014).Sorption of hexavalent chromium from aqueous solution using marine green algae *Halimeda gracilis*: Optimization, equilibrium, kinetic, thermodynamic and desorption studies *Journal of Environmental Chemical Engineering*. 2 (3), 1261-127.

S Sathian, M Rajasimman, G Radha, V Shanmugapriya, **C Karthikeyan** (2014). Performance of SBR for the treatment of textile dye wastewater: Optimization and kinetic studies. *Alexandria Engineering Journal*.l 53 (2), 417-426

D Baskaran, **K Chinnappan**, R Manivasagan, R Selvaraj. (2017). Liquid–Liquid Equilibrium of Polymer–Inorganic Salt Aqueous Two-Phase Systems: Experimental Determination and Correlation. *Journal of Chemical & Engineering Data*. 62 (2), 738-743

AMK Pandian, **C Karthikeyan**, M Rajasimman. (2016). Isotherm and kinetic studies on nano-sorption of Malachite Green onto Allium sativum mediated synthesis of silver nano particles. *Biocatalysis and Agricultural Biotechnology*. 8, 171-181

AMK Pandian, **C Karthikeyan**, M Rajasimman. (2016). Isotherm and kinetic studies on nano-sorption of malachite green onto Aspergillus flavus mediated synthesis of silver nano particles. *Environmental Nanotechnology, Monitoring & Management*. 6, 139-151

D Baskaran, **K Chinnappan**, R Manivasagan, DK Mahadevan. (2018). Partitioning of crude protein from aqua waste using PEG 600-inorganic salt Aqueous Two-Phase Systems. *Chemical Data Collections*. 15, 143-152

V Selvi, M Sathiyamoorthy, **C Karthikeyan**. (2014). Nitrification of Fish Processing Waste Water using Mixed Cultures of Nitrosomonas and Nitrobacter for Ammonia Degradation (Phase-I). *IEEE Trans. Nucl. Sci.* 58 (4), 1596-1605

R Jayakumar, M Rajasimman, **C Karthikeyan**. (2014). Optimization studies on the Sorption of Cu (II) from aqueous solution using marine brown algae: Sargassum myriocystum. *International Journal of ChemTech Research*. 6 (10), 4525-4532

Jayakumar R, Rajasimman M & **Karthikeyan C** (2019). Column studies on sorption of Cr (VI) from aqueous and electroplating wastewater using acid-treated marine brown algae *Sargassum myriocystum*, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1556-7230.