Dr. S. SHANTHAKUMAR -PUBLICATION DETAILS

- 1. J. Umamaheswari and **S. Shanthakumar**, "Paddy-soaked rice mill wastewater treatment by phycoremediation and feasibility study on use of algal biomass as biofertilizer", Journal of Chemical Technology and Biotechnology, Published online on 20 August 2020.
- 2. J. Umamaheswari, M.S. Kavitha and **S. Shanthakumar**, "Outdoor cultivation of Chlorella pyrenoidosa in paddy-soaked wastewater and a feasibility study on biodiesel production from wet algal biomass through in-situ transesterification", Biomass and Bioenergy, Vol. 143, 105853, 2020.
- 3. J. Umamaheswari, T. Bharathkumar, **S. Shanthakumar** and K. M. Gothandam, "A feasibility study on optimization of combined advanced oxidation processes for municipal solid waste leachate treatment", Process Safety and Environmental Protection, Vol. 143, pp 212 221, 2020.
- 4. D. Saranya and **S. Shanthakumar**, "Effect of culture conditions on biomass yield on acclimatized microalgae in ozone pre-treated tannery effluent: A simultaneous exploration of bioremediation and lipid accumulation potential", Journal of Environmental Management, Vol. 273, 111129, 2020.
- 5. G. Velvizhi, **S. Shanthakumar**, Bhaskar Das, A. Pugazhendhi, T. Shanmuga Priya, B. Ashok, K. Nanthagopal, R. Vignesh and C. Karthick, "Biodegradable and non-biodegradable fraction of municipal solid waste for multifaceted applications through a closed loop integrated refinery platform: Paving a path towards circular economy", Science of the Total Environment, Vol. 725, 138049, 2020.
- 6. G. Sujatha, **S. Shanthakumar** and Fulvia Chiampo, "UV light-irradiated photocatalytic degradation of coffee processing wastewater using TiO2 as a catalyst", Environments, Vol. 7, 47, 2020.
- 7. D. Saranya and **S. Shanthakumar**, "An integrated approach for tannery effluent treatment with ozonation and phycoremediation: A fesibility study", Environmental Research, Vol. 183, 109163, 2020.
- 8. J. Umamaheswari and **S. Shanthakumar**, "Optimization of Temperature and Inoculum Size for Phycoremediation of Paddy-soaked Rice Mill Wastewater", Journal of Environmental Engineering, ASCE, Vol. 146 (1), 04019091, 2020.
- 9. G. Vijayaraghavan and **S. Shanthakumar**, "Removal of Crystal Violet dye in textile effluent by coagulation using algal alginate from brown algae Sargassum sp.", Desalination and Water Treatment, Vol. 196, pp 402 408, 2020.
- 10. Jilu Varghese, Mohammed Rehaan Chandan and **S. Shanthakumar**, "Fixed Bed Column Study for Pesticide Removal Using Silver Nanoparticles-embedded Polyurethane Foam and Glass Beads", Chemical Engineering Communications, Vol. 207(10), pp 1337 1346, 2020.
- 11. A. Dhamodharan, S. Abinandan, U. Aravind, G. P. Ganapathy and **S. Shanthakumar**, "Distribution of Metal Contamination and Risk Indices Assessment of Surface Sediments from Cooum River, Chennai, India", International Journal of Environmental Research, Vol. 13, pp 853 860, 2019.

- 12. R. Anjali and **S. Shanthakumar**, "Insights on the Current Status of Occurrence and Removal of Antibiotics in Wastewater by Advanced Oxidation Processes", Journal of Environmental Management, Vol. 246, pp 51 62, 2019.
- 13. J. Umamaheswari and **S. Shanthakumar**, "Phycoremediation of Paddy-soaked Wastewater by Indigenous Microalgae in Open and Closed Culture System", Journal of Environmental Management, Vol. 243, pp 435 443, 2019.
- 14. D. Saranya and **S. Shanthakumar**, "Opportunities for Phycoremediation Approach in Tannery Effluent: A Treatment Perspective", Environmental Progress & Sustainable Energy, Vol. 38 (3), pp 1 13, 2019.
- 15. D. Saranya and **S. Shanthakumar**, "Green Microalgae for Combined Sewage and Tannery Effluent Treatment: Performance and Lipid Accumulation Potential", Journal of Environmental Management, Vol. 241, pp 167 178, 2019.
- 16. J. Umamaheswari and S. Shanthakumar, "Phytoremediation of Nutrient Overloaded Soil by Rice Mill Wastewater using Amaranthus palmeri and Sorghum vulgare", Environmental Progress & Sustainable Energy, Vol. 38 (2), pp 354 361, 2019.
- 17. G. Vijayaraghavan and **S. Shanthakumar**, "Effective removal of Acid Black 1 dye in textile effluent using Alginate from brown algae as a coagulant", Iranian Journal of Chemistry and Chemical Engineering, Vol. 37 (4), pp 145 151, 2018.
- 18. G. Vijayaraghavan and **S. Shanthakumar**, "Effective removal of Reactive Magenta dye in textile effluent by coagulation using Algal Alginate", Desalination and Water Treatment, Vol. 121, pp 22 27, 2018.
- 19. J. Chukki, S. Abinandan and S. Shanthakumar, "Chrysanthemum indicum microparticles on removal of hazardous Congo red dye using response surface methodology", International Journal of Industrial Chemistry, Vol. 9, pp 305 316, 2018.
- 20. Dilbagh Singh, V. Sowmya, S. Abinandan and **S. Shanthakumar**, "Removal of Malachite Green Dye by Mangifera indica Seed Kernel Powder", Journal of The Institution of Engineers (India): Series A, Vol. 99 (1), pp 103 111, 2018.
- 21. Sowmya Vilvanathan and **S. Shanthakumar**, "Ni²⁺ and Co²⁺ adsorption using Tectona grandis biochar: kinetics, equilibrium and desorption studies", Environmental Technology, Vol. 39 (4), pp 464 478, 2018.
- 22. S. Pavithra and **S. Shanthakumar**, "Removal of COD, BOD and Color from Municipal Solid Waste Leachate using Silica and Iron nano particles A Comparative Study", Global NEST Journal, Vol. 19, pp 122 130, 2017.
- 23. S. Ramya and **S. Shanthakumar**, "Investigation on potential reuse of textile sludge as fertiliser and for preparation of solid blocks", International Journal of Environment and Waste Management, Vol. 19, pp 105 116, 2017.
- 24. Sowmya Vilvanathan and **S. Shanthakumar**, "Modeling of fixed-bed column studies for removal of cobalt ions from aqueous solution using Chrysanthemum indicum", Research on Chemical Intermediates, Vol. 43, pp 229 243, 2017.
- 25. Sowmya Vilvanathan and **S. Shanthakumar**, "Column Adsorption Studies on Nickel and Cobalt Removal from Aqueous Solution Using Native and Biochar Form of Tectona grandis", Environmental Progress & Sustainable Energy, Vol. 36 (4), pp 1030 1038, 2017.

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- 27. Sowmya Vilvanathan and **S. Shanthakumar**, "Removal of Ni (II) and Co (II) ions from aqueous solutions using Teak (Tectona grandis) leaves powder: Adsorption Kinetics, Equilibrium and Thermodynamics study", Desalination and Water Treatment, Vol. 57(9), pp 3995 4007, 2016
- 28. G. Vijayarghavan and **S. Shanthakumar**, "Performance study on Algal alginate as natural coagulant for the removal of Congo red dye", Desalination and Water Treatment, Vol. 57(14), pp 6384 6392, 2016.
- 29. Ruth Sherly and **S. Shanthakumar**, "A Study on Recovery of Silica and Alumina from Fly Ash", Environmental Engineering and Management Journal, Vol. 15(4), pp 835 839, 2016.
- 30. A. Dhamodharan, **S. Shanthakumar** and G.P. Ganapathy, "Assessment of Seasonal Variations in Surface Water Quality of Cooum River in Chennai, India A Statistical Approach", Global NEST Journal, Vol. 18(3), pp 527 545, 2016.
- 31. Sowmya Vilvanathan and **S. Shanthakumar**, "Ni(II) adsorption onto Chrysanthemum indicum: Influencing Factors, Isotherms, Kinetics and Thermodynamics", International Journal of Phytoremediation, Vol. 18(10), pp 1046 1059, 2016.
- 32. J. Umamaheswari and **S. Shanthakumar**, "Efficacy of Microalgae for Industrial Wastewater Treatment A Review on Operating Conditions, Treatment Efficiency and Biomass Productivity", Reviews in Environmental Science and Bio/Technology, Vol. 15, pp 265 284, 2016.
- 33. S. Abinandan and **S. Shanthakumar**, "Evaluation of photosynthetic efficacy and CO2 removal of microalgae grown in an enriched bicarbonate medium", 3 Biotech, Vol. 6, 9 pages, 2016.
- 34. J. Chukki and **S. Shanthakumar**, "Optimization of Malachite Green Dye Removal by Chrysanthemum Indicum Using Response Surface Methodology", Environmental Progress & Sustainable Energy, Vol. 35(5), pp 1415 1419, 2016.
- 35. K. V. Roopavathi and **S. Shanthakumar**, "Adsorption Capacity of Curcuma Longa for the Removal of Basic Green1 Dye Equilibrium, Kinetics and Thermodynamic Study", Journal of Environmental Biology, Vol. 37, pp 979 984, 2016.