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LIST OF PUBLICATION – INTERNATIONAL JOURNAL

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.* DOI: 10.1002/jctb.6551. *(IF: 2.750) [Wiley]*
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. *(IF: 3.551) [Elsevier]*
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. *(IF: 4.966) [Elsevier]*
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. *(IF: 5.647) [Elsevier]*
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. *(IF: 6.551, Citation: 5) [Elsevier]*
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. *(Citation: 1),* DOI:10.3390/environments7060047.
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. *(IF: 5.715, Citation: 5) [Elsevier]*
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. DOI: 10.1061/(ASCE)EE.1943-7870.0001612. *(IF: 1.541)*
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. *(IF: 0.854)*
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. *(IF: 1.802, Citation: 1) [Taylor & Francis]*

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. *(IF: 2.007, Citation: 1) [Springer]*

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. *(IF: 5.647, Citation: 29) [Elsevier]*

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. *(IF: 5.647, Citation: 2) [Elsevier]*

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. *(IF: 1.989, Citation: 2) [Wiley]*

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. *(IF: 5.647, Citation: 7) [Elsevier]*

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. *(IF: 1.989, Citation: 1) [Wiley]*

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.*(IF: 0.860)*

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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. (*Citation: 3)[Springer]*

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. (*Citation: 2) [Springer]*

21. Sowmya Vilvanathan and **S. Shanthakumar**, "Ni^{2+} and Co^{2+} adsorption using Tectona grandis biochar: kinetics, equilibrium and desorption studies", *Environmental Technology*, Vol. 39 (4), pp 464 - 478, 2018. *(IF: 2.213, Citation: 12) [Wiley]*

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. *(IF: 0.744, Citation: 7)*

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. DOI 10.1007/s11164-016-2617-5. *(IF: 1.802, Citation: 7)[Springer]*

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. *(IF: 1.989, Citation: 20) [Wiley]*

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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. *(IF: 1.186)*

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. *(IF: 0.744)*

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. *(IF: 2.528, Citation: 11)[Taylor & Francis]*

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. *(IF: 4.957, Citation: 42)[Springer]*

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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. *(IF: 0.727, Citation: 3)*