

PANEL OF EXPERT:1

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List of publication for last five years:

1. Rajendran, K., Mahapatra, D., Venkatraman, A., Muthuswamy, S., & Pugazhendhi, A. (2020). Advancing anaerobic digestion through two-stage processes: Current developments and future trends. *Renewable And Sustainable Energy Reviews*, 123, 109746. doi: 10.1016/j.rser.2020.109746
2. Gurumalles, P., Alagu, K., Ramakrishnan, B., & Muthusamy, S. (2019). A systematic reconsideration on proteases. *International Journal Of Biological Macromolecules*, 128, 254-267. doi: 10.1016/j.ijbiomac.2019.01.081
3. Muthusamy, S., Manickam, L., Murugesan, V., Muthukumar, C., & Pugazhendhi, A. (2019). Pectin extraction from *Helianthus annuus* (sunflower) heads using RSM and ANN modelling by a genetic algorithm approach. *International Journal Of Biological Macromolecules*, 124, 750-758. doi: 10.1016/j.ijbiomac.2018.11.036
4. Sampath, K., Sathiyaraj, S., Indhumathi, P., & Shanmugaprakash, M. (2019). Research on Biological Properties of Ruthenium (III) Heterocyclic Schiff Base Complexes. *International Journal Of Innovative Technology And Exploring Engineering*, 8(12S), 332-334. doi: 10.35940/ijitee.11086.10812s19
5. Shanmugaprakash, M., Venkatachalam, S., Rajendran, K., & Pugazhendhi, A. (2018). Biosorptive removal of Zn(II) ions by *Pongamia* oil cake (*Pongamia pinnata*) in batch and fixed-bed column studies using response surface methodology and artificial neural network. *Journal Of Environmental Management*, 227, 216-228. doi: 10.1016/j.jenvman.2018.08.088
6. Sivamani, S., Chandrasekaran, A., Balajii, M., Shanmugaprakash, M., Hosseini-Bandegharai, A., & Baskar, R. (2018). Evaluation of the potential of cassava-based residues for biofuels production. *Reviews In Environmental Science And Bio/Technology*, 17(3), 553-570. doi: 10.1007/s11157-018-9475-0

7. C., M., B.R., K., G., S., N., M., & M., S. (2018). Carboxymethylation of pectin: Optimization, characterization and in-vitro drug release studies. *Carbohydrate Polymers*, 194, 311-318. doi: 10.1016/j.carbpol.2018.04.042
8. Rajendran, K., Drielak, E., Sudarshan Varma, V., Muthusamy, S., & Kumar, G. (2017). Updates on the pretreatment of lignocellulosic feedstocks for bioenergy production—a review. *Biomass Conversion And Biorefinery*, 8(2), 471-483. doi: 10.1007/s13399-017-0269-3
9. Kamalini, A., Muthusamy, S., Ramapriya, R., Muthusamy, B., & Pugazhendhi, A. (2018). Optimization of sugar recovery efficiency using microwave assisted alkaline pretreatment of cassava stem using response surface methodology and its structural characterization. *Journal Of Molecular Liquids*, 254, 55-63. doi: 10.1016/j.molliq.2018.01.091
10. Sudharsan Varma, V., Muthusamy, S., & Rajendran, K. (2018). Organic Waste and Pollutants Reduction Through Composting , *Waste Bioremediation* (pp. 141-164). Singapore: Springer.
11. Madhab Mahapatra, D., Sudharsan Varma, V., Muthusamy, h., & Rajendran, K. (2018). Wastewater algae to value-added products, *Waste to Wealth* (pp. 365-393). Singapore: Springer.
12. Muthusamy, S., Govindaraj, D., & Rajendran, K. (2018). Phytoremediation of Textile Dye Effluents, *Bioremediation: Applications for Environmental Protection and Management* (pp. 359-373). Singapore: Springer.
13. Venkatesh Prabhu, M., Karthikeyan, R., & Shanmugaparakash, M. (2015). Modeling and optimization by response surface methodology and neural network—genetic algorithm for decolorization of real textile dye effluent using *Pleurotus ostreatus*: a comparison study. *Desalination And Water Treatment*, 57(28), 13005-13019. doi: 10.1080/19443994.2015.1059372
14. Aarthi, B., Aswini, V., Lakshmi Priya, M., Nirosha, M., & Shanmugaparakash, M. (2016). Optimization of Microwave Assisted Extraction of Pectin from *Helianthus annuus* Head Using Response Surface Methodology, *Biotechnology and Biochemical Engineering* (pp. 35-45). Singapore: Springer.
15. Shanmugaparakash, M., & Sivakumar, V. (2015). Batch and fixed-bed column studies for biosorption of Zn(II) ions onto pongamia oil cake (*Pongamia pinnata*) from biodiesel oil extraction. *Journal Of Environmental Management*, 164, 161-170. doi: 10.1016/j.jenvman.2015.08.034
16. Shanmugaparakash, M., Vinothkumar, V., Ragupathy, J., & Reddy, D. (2015). Biochemical characterization of three phase partitioned naringinase from *Aspergillus brasiliensis* MTCC 1344. *International Journal Of Biological Macromolecules*, 80, 418-423. doi: 10.1016/j.ijbiomac.2015.06.057

17. Biochemical characterization and antitumor activity of three phase partitioned L-asparaginase from *Capsicum annuum* L. (2015). *Separation And Purification Technology*, 142, 258-267.
18. Muthusamy, S., & Venkatachalam, S. (2015). Competitive biosorption of Cr(vi) and Zn(ii) ions in single- and binary-metal systems onto a biodiesel waste residue using batch and fixed-bed column studies. *RSC Advances*, 5(57), 45817-45826. doi: 10.1039/c5ra05962c