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#### **AREA OF INTEREST**

- Separation of Proteins using aqueous two phase system
- Computational Fluid Dynamics
- Biofuels
- Waste water Treatment

#### **LIST OF PUBLICATIONS**

1. **VRV Ashwaniy, M Perumalsamy, S Pandian**, “Enhancing the synergistic interaction of microalgae and bacteria for the reduction of organic compounds in petroleum refinery effluent”, *Environmental Technology & Innovation*, 100926, 2020.
2. **A Arunagiri, M Perumalsamy, T Sivasankar, P Sivashanmugam, S Srinath**, “Advances and challenges for sustainable ecosystems”, *Environmental Science and Pollution Research*, 1-3, 2020.
3. **VRV Ashwaniy, M Perumalsamy**, “Influence of key operating parameters and bio-fouling on simultaneous desalination of seawater & reduction of organic wastes from petroleum industrial wastewater”, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-16, 2019.
4. **VRV Ashwaniy, M Perumalsamy**, “Microbial Desalination Cell: An Integrated Technology for Desalination, Wastewater Treatment and Renewable Energy Generation”, *Microbial Fuel Cells: Materials and Applications* 46, 221-248, 2019.
5. **VRV Ashwaniy, M Perumalsamy, P Sivakumar**, “Photosynthetic free and immobilized cells of *Scenedesmus abundans* for desalination of seawater”, *Desalination and Water Treatment*, 138, 19-26, 2019.
6. **VRV Ashwaniy, M Perumalsamy**, “Reduction of organic compounds in petrochemical industry effluent and desalination using *Scenedesmus abundans* algal

microbial desalination cell”, Journal of environmental chemical engineering 5 (6), 5961-5967, 2017.

7. I John, P Yaragarla, P Muthaiah, K Ponnusamy, A Appusamy, “Statistical optimization of acid catalyzed steam pretreatment of citrus peel waste for bioethanol production”, Resource-Efficient Technologies 3 (4), 429-433, 2017.
8. C Chelladurai, **M Perumalsamy**, “Statistical study on the growth of *Chlorella pyrenoidosa* using the response surface methodology”, Current Biochemical Engineering 4 (1), 43-59, 2017.
9. C Chellamboli, **M Perumalsamy**, “Synergistic Effect of Hormones and Biosolids on *Scenedesmus abundans* for Eliciting Total Biolipids”, Water Environment Research 88 (12), 2180-2190, 2016.
10. KS Parthiban, **M Perumalsamy**, “Kinetic studies on oil extraction and biodiesel production from underutilized *Annona squamosa* seeds”, Fuel 180, 211-217, 2016.
11. S Senthilkumar, **M Perumalsamy**, HJ Prabhu, N Thajudin, “Optimization of process parameters for efficient decolorization of Congo red by novel fungus *Curvularia* sp. using Box–Behnken design”, Desalination and Water Treatment 54 (6), 1708-1716, 2015.
12. KS Parthiban, **M Perumalsamy**, “Nano sized heterogeneous acid catalyst from *Ceiba pentandra* stalks for production of biodiesel using extracted oil from *Ceiba pentandra* seeds”, RSC advances 5 (15), 11180-11187, 2015.