

List of Publications- Dr. S Sridhar

1. Nazia, S., Sahu, N., Jegatheesan, V., Bhargava, S.K. and **Sridhar, S.**, 2021. Integration of ultrafiltration membrane process with chemical coagulation for proficient treatment of old industrial landfill leachate. *Chemical Engineering Journal*, p.128598.
2. Vani, B., Pabba, M., Kalyani, S. and **Sridhar, S.**, 2021. Separation of Anisole and Valuable Byproducts from Liquid Reaction Mixtures by Solvent Extraction and Multicomponent Distillation. *Journal of Solution Chemistry*, pp.1-18.
3. Nazia, S., Sekhar, S.C., Jegatheesan, V., Bhargava, S.K. and **Sridhar, S.**, 2020. Performance of chemically resistant polyurea reverse osmosis membrane in the treatment of highly alkaline industrial wastewater containing sodium aluminate. *Water Science and Technology*, 82(11), pp.2259-2270.
4. Kancherla, R., Kumar, V.R., Reddy, G.P. and **Sridhar, S.**, 2020. Nitrate removal studies on polyurea membrane using nanofiltration system—membrane characterization and model development. *Chemical Product and Process Modeling*, 1(ahead-of-print).
5. Ramaiah, K.P., Mishra, K., Atkar, A. and **Sridhar, S.**, 2020. Pervaporation separation of chlorinated environmental pollutants from aqueous solutions by castor oil based composite interpenetrating network membranes. *Chemical Engineering Journal*, 387, p.124050.
6. Kanakaraju, Y., Uma, A., Vani, G., Kumari, P.K., **Sridhar, S.** and Umakanth, A.V., 2020. Evaluation of ethanol fermentation efficiency of sweet sorghum syrups produced by integrated dual-membrane system. *Bioprocess and biosystems engineering*, pp.1-10.
7. Nagar, H., Sahu, N., Rao, V.B. and **Sridhar, S.**, 2020. Surface modification of sulfonated polyethersulfone membrane with polyaniline nanoparticles for application in direct methanol fuel cell. *Renewable Energy*, 146, pp.1262-1277.
8. Vani, B., Chandra Sekhar, S., Sahu, N. and **Sridhar, S.**, Development of a UV coupled indigenous hydrophilized polyamide membrane system for enhanced shelf life of mature coconut water. *Journal of Food Process Engineering*, p.e13636.
9. Govardhan, B., Fatima, S., Madhumala, M. and **Sridhar, S.**, 2020. Modification of used commercial reverse osmosis membranes to nanofiltration modules for the production of mineral-rich packaged drinking water. *Applied Water Science*, 10(11), pp.1-17.
10. Kancherla, R., Vadeghar, R.K., Ginuga, P.R. and **Sridhar, S.**, 2020. Antifouling membrane based on sodium alginate coated polyamide thin film composite for desalination of brackish water. *Polymer Engineering & Science*, 60(11), pp.2827-2840.

11. Begum, S., Arelli, V., Anupoju, G.R., **Sridhar, S.**, Bhargava, S.K. and Eshtiaghi, N., 2020. Optimization of feed and extractant concentration for the liquid–liquid extraction of volatile fatty acids from synthetic solution and landfill leachate. *Journal of Industrial and Engineering Chemistry*, 90, pp.190-202.
12. Chandrasekhar, S.S., Vaishnavi, D., Sahu, N. and **Sridhar, S.**, 2020. Design of an integrated membrane bioreactor process for effective and environmentally safe treatment of highly complex coffee industrial effluent. *Journal of Water Process Engineering*, 37, p.101436.
13. Ravichand, K., Kumar, V.R., Reddy, G.P. and **Sridhar, S.**, 2020. Synthesis and Characterization of Indigenous Hydrophilized Polyvinylidene Fluoride Membrane for Drinking Water Purification: Experimental Study and Modeling Aspects. *Chemistry & Chemical Technology*, 2 (14), 2020, 14(2), pp.239-250.
14. Nazia, S., Jegatheesan, V., Bhargava, S.K. and **Sundergopal, S.**, 2020. Microbial Fuel Cell–Aided Processing of Kitchen Wastewater Using High-Performance Nanocomposite Membrane. *Journal of Environmental Engineering*, 146(8), p.04020073.
15. Pal, P., Chaurasia, S.P., Upadhyaya, S., Kumar, R. and **Sridhar, S.**, 2020. Development of hydrogen selective microporous PVDF membrane. *International Journal of Hydrogen Energy*, 45(34), pp.16965-16975.
16. Parakala, S., Moulik, S. and **Sridhar, S.**, 2019. Effective separation of methylene blue dye from aqueous solutions by integration of micellar enhanced ultrafiltration with vacuum membrane distillation. *Chemical Engineering Journal*, 375, p.122015.
17. Vadthya, P., Thummalapalli, N. and **Sundergopal, S.**, 2019. Ultrafiltration membrane assisted cost effective ionizer for production of therapeutic alkaline ionized water. *Journal of Water Process Engineering*, 32, p.100951.
18. Bighane, N., **Sridhar, S.**, Madapusi, S., Bhargava, S. and Narayan, R., 2019. Biogas separation by polymer-based membranes. *Asian Journal of Science and Technology*, 10(06), pp.9689-9695.
19. Nagar, H., Badhrachalam, N., Rao, V.B. and **Sridhar, S.**, 2019. A novel microbial fuel cell incorporated with polyvinylchloride/4A zeolite composite membrane for kitchen wastewater reclamation and power generation. *Materials chemistry and physics*, 224, pp.175-185.

20. **Sridhar, S.** and Moulik, S. eds., 2018. *Membrane Processes: Pervaporation, Vapor Permeation and Membrane Distillation for Industrial Scale Separations*. John Wiley & Sons.
21. **Sridhar, S.** and Moulik, S. eds., 2018. *Membrane Processes: Pervaporation, Vapor Permeation and Membrane Distillation for Industrial Scale Separations*. John Wiley & Sons.
22. Moulik, S., Parakala, S. and **Sridhar, S.**, 2018. Graphene Oxide/Polystyrene Mixed Matrix Membranes for Desalination of Seawater through Vacuum Membrane Distillation. *Membrane Processes: Pervaporation, Vapor Permeation and Membrane Distillation for Industrial Scale Separations*, p.375.
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26. Moulik, S., Vaishnavi, D. and **Sridhar, S.**, 2018. Dehydration of acetonitrile solvent by pervaporation through graphene oxide/poly (vinyl alcohol) mixed matrix membranes. *Membrane processes: Pervaporation, vapor permeation and membrane distillation for industrial scale separations*, p.123.
27. Nagar, H., Anand, P. and **Sridhar, S.**, 2018. Vapor Permeation: Theory and Modelling Perspectives. *Membrane Processes: Pervaporation, Vapor Permeation and Membrane Distillation for Industrial Scale Separations*, p.283.
28. Madhumala, M., Kiran, I.R., Sutar, S.M. and **Sridhar, S.**, 2018. Dewatering of Diethylene Glycol and Lactic Acid Solvents by Membrane Distillation Technique. *Membrane Processes: Pervaporation, Vapor Permeation and Membrane Distillation for Industrial Scale Separations*, p.357.

29. Pal, P., Chaurasia, S.P., Upadhyaya, S., Agarwal, M. and **Sridhar, S.**, 2018. Glycerol purification using membrane technology. *Membrane Processes; John Wiley & Sons, Inc.: Hoboken, NJ, USA*, pp.431-463.
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34. Comprehensive Process Solutions for Chemical and Allied Industries Using Membranes, Satya Jai Mayor, **S Sridhar**
35. Processing of Dairy Industrial Effluent and Kitchen Wastewater by Integration of Microbial Action with Membrane Processes, SS Chandrasekhar, N Sahu, **S Sridhar**
Membrane Technology: Sustainable Solutions in Water, Health, Energy
36. Moulik, S., Bukke, V., Sajja, S.C. and **Sridhar, S.**, 2018. Chitosan-polytetrafluoroethylene composite membranes for separation of methanol and toluene by pervaporation. *Carbohydrate polymers*, 193, pp.28-38.
37. Begum, S., Anupoju, G.R., **Sridhar, S.**, Bhargava, S.K., Jegatheesan, V. and Eshtiaghi, N., 2018. Evaluation of single and two stage anaerobic digestion of landfill leachate: Effect of pH and initial organic loading rate on volatile fatty acid (VFA) and biogas production. *Bioresource technology*, 251, pp.364-373.
38. Design of highly compact membrane systems for industrial development and societal welfare, M Madhumala, S Moulik, **S Sridhar**, ASSET Bulletin on Membrane Separations: Water / Wastewater 1 (January), 12-20
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44. Concept of Integrated Technologies in Wastewater Treatment, N Sahu, **S Sridhar**, Chemical Engineering World 12 (December), 40-42
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46. Nagar, H., Anusha, G. and **Sridhar, S.**, 2017. Sulfonated polyethersulfone/torlon blend membrane incorporated with multiwalled carbon nanotubes for energy production from kitchen wastewater using microbial fuel cell. In *Energy engineering* (pp. 163-167). Springer, Singapore.
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