

Thanigaivelan Arumugham

List of Publications by Year in descending order

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21
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Nano CuO/g-C ₃ N ₄ sheets-based ultrafiltration membrane with enhanced interfacial affinity, antifouling and protein separation performances for water treatment application. <i>Journal of Environmental Sciences</i> , 2019, 82, 57-69. | 3.2 | 106 |
| 2 | Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications – A review. <i>Chemosphere</i> , 2021, 271, 129525. | 4.2 | 93 |
| 3 | Recent developments in porous ceramic membranes for wastewater treatment and desalination: A review. <i>Journal of Environmental Management</i> , 2021, 293, 112925. | 3.8 | 85 |
| 4 | Augmented biohydrogen production from rice mill wastewater through nano-metal oxides assisted dark fermentation. <i>Bioresource Technology</i> , 2021, 319, 124243. | 4.8 | 74 |
| 5 | A sustainable synthesis of green carbon quantum dot (CQD) from <i>Catharanthus roseus</i> (white) Tj ETQq1 1 0.784314 rgBT /Overlock 10 detection and biological applications. <i>Sustainable Materials and Technologies</i> , 2020, 23, e00138. | 1.7 | 54 |
| 6 | Biosorption potential of <i>Phoenix dactylifera</i> coir wastes for toxic hexavalent chromium sequestration. <i>Chemosphere</i> , 2021, 268, 128809. | 4.2 | 54 |
| 7 | Studies on carboxylated graphene oxide incorporated polyetherimide mixed matrix ultrafiltration membranes. <i>Materials Chemistry and Physics</i> , 2017, 186, 146-158. | 2.0 | 41 |
| 8 | Sulfonated polyethersulfone-based membranes for metal ion removal via a hybrid process. <i>Journal of Materials Science</i> , 2014, 49, 114-122. | 1.7 | 38 |
| 9 | Graphene Oxide Nanocomposite Incorporated Poly(ether imide) Mixed Matrix Membranes for in Vitro Evaluation of Its Efficacy in Blood Purification Applications. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7899-7913. | 1.8 | 38 |
| 10 | Nano-activated carbon derived from date palm coir waste for efficient sequestration of noxious 2,4-dichlorophenoxyacetic acid herbicide. <i>Chemosphere</i> , 2021, 282, 131103. | 4.2 | 37 |
| 11 | Separation of oil/water emulsions using nano MgO anchored hybrid ultrafiltration membranes for environmental abatement. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 1.3 | 33 |
| 12 | A functional PES membrane for hemodialysis – Preparation, Characterization and Biocompatibility. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1236-1244. | 1.7 | 29 |
| 13 | Fabrication of novel aromatic amine functionalized nanofiltration (NF) membranes and testing its dye removal and desalting ability. <i>Polymer Testing</i> , 2018, 72, 1-10. | 2.3 | 28 |
| 14 | Development of new hybrid ultrafiltration membranes by entanglement of macromolecular PPSU- SO_3H chains: Preparation, morphologies, mechanical strength, and fouling resistant properties. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 1.3 | 18 |
| 15 | Antifouling and photocatalytic properties of 2-D Zn/Al layered double hydroxide tailored low-pressure membranes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 158, 108191. | 1.8 | 18 |
| 16 | Chitosan capped nanoscale Fe-MIL-88B-NH ₂ metal-organic framework as drug carrier material for the pH responsive delivery of doxorubicin. <i>Materials Research Express</i> , 2017, 4, 085023. | 0.8 | 17 |
| 17 | Sub-critical water extraction of reducing sugars and phenolic compounds from date palm fruit. <i>Biomass Conversion and Biorefinery</i> , 0, , 1. | 2.9 | 14 |
| 18 | PFOM fillers embedded PVDF/cellulose dual-layered membranes with hydrophobic-hydrophilic channels for desalination via direct contact membrane distillation process. <i>RSC Advances</i> , 2019, 9, 41462-41474. | 1.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Surface-engineered polyethersulfone membranes with inherent Fe-Mn bimetallic oxides for improved permeability and antifouling capability. Environmental Research, 2022, 204, 112390. | 3.7 | 12 |
| 20 | Supercritical CO ₂ pretreatment of date fruit biomass for enhanced recovery of fruit sugars. Sustainable Energy Technologies and Assessments, 2022, 52, 102231. | 1.7 | 8 |
| 21 | N-Doped Carbon Dots Derived from Melamine and Triethanolamine for Selective Sensing of Fe ³⁺ Ions. Journal of Nanomaterials, 2021, 2021, 1-11. | 1.5 | 7 |