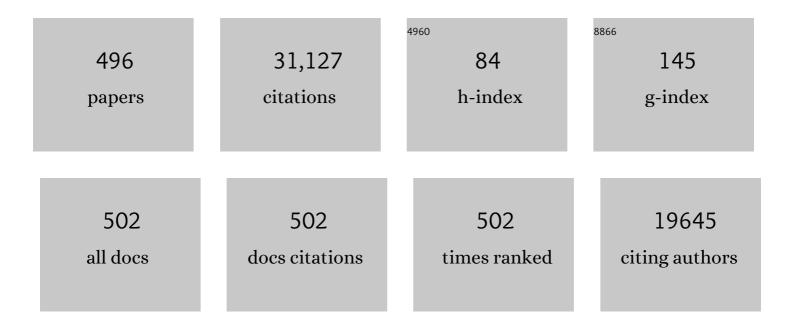
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2352934/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Covalent organic frameworks for membrane separation. Chemical Society Reviews, 2019, 48, 2665-2681. | 38.1 | 733 |
| 2 | Drawbacks of applying nanofiltration and how to avoid them: A review. Separation and Purification Technology, 2008, 63, 251-263. | 7.9 | 724 |
| 3 | A review of pressure-driven membrane processes in wastewater treatment and drinking water production. Environmental Progress, 2003, 22, 46-56. | 0.7 | 707 |
| 4 | The use of nanoparticles in polymeric and ceramic membrane structures: Review of manufacturing procedures and performance improvement for water treatment. Environmental Pollution, 2010, 158, 2335-2349. | 7.5 | 706 |
| 5 | Removal of pollutants from surface water and groundwater by nanofiltration: overview of possible applications in the drinking water industry. Environmental Pollution, 2003, 122, 435-445. | 7.5 | 564 |
| 6 | Metal–organic frameworks based membranes for liquid separation. Chemical Society Reviews, 2017, 46, 7124-7144. | 38.1 | 557 |
| 7 | Global Phosphorus Scarcity and Full-Scale P-Recovery Techniques: A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 336-384. | 12.8 | 528 |
| 8 | Influence of ion size and charge in nanofiltration. Separation and Purification Technology, 1998, 14, 155-162. | 7.9 | 475 |
| 9 | Tight ultrafiltration membranes for enhanced separation of dyes and Na2SO4 during textile wastewater treatment. Journal of Membrane Science, 2016, 514, 217-228. | 8.2 | 378 |
| 10 | Elevated Performance of Thin Film Nanocomposite Membranes Enabled by Modified Hydrophilic MOFs for Nanofiltration. ACS Applied Materials & Interfaces, 2017, 9, 1975-1986. | 8.0 | 368 |
| 11 | Chemical modification of polyethersulfone nanofiltration membranes: A review. Journal of Applied Polymer Science, 2009, 114, 630-642. | 2.6 | 365 |
| 12 | Fractionation of direct dyes and salts in aqueous solution using loose nanofiltration membranes. Journal of Membrane Science, 2015, 477, 183-193. | 8.2 | 355 |
| 13 | Pharmaceuticals in freshwater aquatic environments: A comparison of the African and European challenge. Science of the Total Environment, 2019, 654, 324-337. | 8.0 | 335 |
| 14 | Surface zwitterionic functionalized graphene oxide for a novel loose nanofiltration membrane. Journal of Materials Chemistry A, 2016, 4, 1980-1990. | 10.3 | 326 |
| 15 | Separation of monovalent and divalent ions from aqueous solution by electrodialysis and nanofiltration. Water Research, 2004, 38, 1347-1353. | 11.3 | 321 |
| 16 | Reuse, Treatment, and Discharge of the Concentrate of Pressure-Driven Membrane Processes. Environmental Science & Technology, 2003, 37, 3733-3738. | 10.0 | 296 |
| 17 | Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets Functionalized Thin Film Nanocomposite Membrane for Enhanced Antimicrobial Performance. ACS Applied Materials & Interfaces, 2016, 8, 25508-25519. | 8.0 | 283 |
| 18 | Remediation of inorganic arsenic in groundwater for safe water supply: A critical assessment of technological solutions. Chemosphere, 2013, 92, 157-170. | 8.2 | 270 |

| # | Article | IF | CITATIONS |
|----|---|--------------------|---------------------|
| 19 | Application of nanofiltration for removal of pesticides, nitrate and hardness from ground water: rejection properties and economic evaluation. Journal of Membrane Science, 2001, 193, 239-248. | 8.2 | 250 |
| 20 | Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. Progress in Polymer Science, 2019, 98, 101166. | 24.7 | 243 |
| 21 | Polyimides in membrane gas separation: Monomer's molecular design and structural engineering. Progress in Polymer Science, 2019, 91, 80-125. | 24.7 | 237 |
| 22 | The rapid emergence of two-dimensional nanomaterials for high-performance separation membranes. Journal of Materials Chemistry A, 2018, 6, 3773-3792. | 10.3 | 223 |
| 23 | Continuous Flow Upgrading of Selected C ₂ –C ₆ Platform Chemicals Derived from Biomass. Chemical Reviews, 2020, 120, 7219-7347. | 47.7 | 222 |
| 24 | Preparation and characterization of thin-film nanocomposite membranes embedded with poly(methyl) Tj ETQq0 (Journal of Membrane Science, 2013, 442, 18-26. |) 0 rgBT /(8.2 | Overlock 107 212 |
| 25 | How To Optimize the Membrane Properties for Membrane Distillation: A Review. Industrial & Engineering Chemistry Research, 2016, 55, 9333-9343. | 3.7 | 211 |
| 26 | Conventional Ultrafiltration As Effective Strategy for Dye/Salt Fractionation in Textile Wastewater Treatment. Environmental Science & Technology, 2018, 52, 10698-10708. | 10.0 | 201 |
| 27 | Phosphate Separation and Recovery from Wastewater by Novel Electrodialysis. Environmental Science & Technology, 2013, 47, 5888-5895. | 10.0 | 195 |
| 28 | High flux electroneutral loose nanofiltration membranes based on rapid deposition of polydopamine/polyethyleneimine. Journal of Materials Chemistry A, 2017, 5, 14847-14857. | 10.3 | 195 |
| 29 | Mechanisms of retention and flux decline for the nanofiltration of dye baths from the textile industry. Separation and Purification Technology, 2001, 22-23, 519-528. | 7.9 | 192 |
| 30 | Effect of nanoparticle aggregation at low concentrations of TiO2 on the hydrophilicity, morphology, and fouling resistance of PES–TiO2 membranes. Journal of Colloid and Interface Science, 2011, 363, 540-550. | 9.4 | 185 |
| 31 | Graphene-based antimicrobial polymeric membranes: a review. Journal of Materials Chemistry A, 2017, 5, 6776-6793. | 10.3 | 174 |
| 32 | Construction of TiO2@graphene oxide incorporated antifouling nanofiltration membrane with elevated filtration performance. Journal of Membrane Science, 2017, 533, 279-288. | 8.2 | 171 |
| 33 | Electrochemical decomposition of choline chloride based ionic liquid analogues. Green Chemistry, 2009, 11, 1357. | 9.0 | 169 |
| 34 | Separation of nutrient ions and organic compounds from salts in RO concentrates by standard and monovalent selective ion-exchange membranes used in electrodialysis. Journal of Membrane Science, 2009, 332, 104-112. | 8.2 | 167 |
| 35 | MOF-positioned polyamide membranes with a fishnet-like structure for elevated nanofiltration performance. Journal of Materials Chemistry A, 2019, 7, 16313-16322. | 10.3 | 166 |
| 36 | How to coordinate the trade-off between water permeability and salt rejection in nanofiltration?. Journal of Materials Chemistry A, 2020, 8, 8831-8847. | 10.3 | 162 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Erythritol-based polyester loose nanofiltration membrane with fast water transport for efficient dye/salt separation. Chemical Engineering Journal, 2021, 406, 126796. | 12.7 | 162 |
| 38 | Process intensification in the textile industry: the role of membrane technology. Journal of Environmental Management, 2004, 73, 267-274. | 7.8 | 161 |
| 39 | Progress and perspectives for synthesis of sustainable antifouling composite membranes containing in situ generated nanoparticles. Journal of Membrane Science, 2017, 524, 502-528. | 8.2 | 156 |
| 40 | Carboxyl-functionalized graphene oxide polyamide nanofiltration membrane for desalination of dye solutions containing monovalent salt. Journal of Membrane Science, 2017, 539, 128-137. | 8.2 | 149 |
| 41 | Rapid water transport through controllable, ultrathin polyamide nanofilms for high-performance nanofiltration. Journal of Materials Chemistry A, 2018, 6, 15701-15709. | 10.3 | 148 |
| 42 | Electrodialysis on RO concentrate to improve water recovery in wastewater reclamation. Journal of Membrane Science, 2011, 378, 101-110. | 8.2 | 147 |
| 43 | Selectrodialysis: Fractionation of divalent ions from monovalent ions in a novel electrodialysis stack. Separation and Purification Technology, 2012, 88, 191-201. | 7.9 | 146 |
| 44 | Advanced desalination of dye/NaCl mixtures by a loose nanofiltration membrane for digital ink-jet printing. Separation and Purification Technology, 2018, 197, 27-35. | 7.9 | 144 |
| 45 | An anion exchange membrane modified by alternate electro-deposition layers with enhanced monovalent selectivity. Journal of Membrane Science, 2016, 520, 262-271. | 8.2 | 141 |
| 46 | Thin film nanocomposite reverse osmosis membrane modified by two dimensional laminar MoS2 with improved desalination performance and fouling-resistant characteristics. Desalination, 2019, 454, 48-58. | 8.2 | 141 |
| 47 | Doping of polyethersulfone nanofiltration membranes: antifouling effect observed at ultralow concentrations of TiO2 nanoparticles. Journal of Materials Chemistry, 2011, 21, 10311. | 6.7 | 139 |
| 48 | Influence of membrane thickness and process conditions on direct contact membrane distillation at different salinities. Journal of Membrane Science, 2016, 498, 353-364. | 8.2 | 139 |
| 49 | High-flux thin film composite membranes for nanofiltration mediated by a rapid co-deposition of polydopamine/piperazine. Journal of Membrane Science, 2018, 554, 97-108. | 8.2 | 131 |
| 50 | High-flux, antibacterial composite membranes via polydopamine-assisted PEI-TiO2/Ag modification for dye removal. Chemical Engineering Journal, 2019, 373, 275-284. | 12.7 | 128 |
| 51 | Elevated salt transport of antimicrobial loose nanofiltration membranes enabled by copper nanoparticles via fast bioinspired deposition. Journal of Materials Chemistry A, 2016, 4, 13211-13222. | 10.3 | 125 |
| 52 | Separation of divalent ions from seawater concentrate to enhance the purity of coarse salt by electrodialysis with monovalent-selective membranes. Desalination, 2017, 411, 28-37. | 8.2 | 125 |
| 53 | Mussel-Inspired Architecture of High-Flux Loose Nanofiltration Membrane Functionalized with Antibacterial Reduced Graphene Oxide–Copper Nanocomposites. ACS Applied Materials & Interfaces, 2017, 9, 28990-29001. | 8.0 | 125 |
| 54 | Regulating composition and structure of nanofillers in thin film nanocomposite (TFN) membranes for enhanced separation performance: A critical review. Separation and Purification Technology, 2021, 266, 118567. | 7.9 | 122 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | P-recovery as calcium phosphate from wastewater using an integrated selectrodialysis/crystallization process. Journal of Cleaner Production, 2014, 77, 140-151. | 9.3 | 121 |
| 56 | The potential of Kevlar aramid nanofiber composite membranes. Journal of Materials Chemistry A, 2020, 8, 7548-7568. | 10.3 | 114 |
| 57 | Microcystis aeruginosa-laden water treatment using enhanced coagulation by persulfate/Fe(II), ozone and permanganate: Comparison of the simultaneous and successive oxidant dosing strategy. Water Research, 2017, 125, 72-80. | 11.3 | 113 |
| 58 | Novel polyphenylsulfone membrane for potential use in solvent nanofiltration. Journal of Membrane Science, 2011, 379, 60-68. | 8.2 | 111 |
| 59 | Membrane Fouling and Rejection of Organics during Algae-Laden Water Treatment Using Ultrafiltration: A Comparison between in Situ Pretreatment with Fe(II)/Persulfate and Ozone. Environmental Science & Technology, 2018, 52, 765-774. | 10.0 | 111 |
| 60 | High flux thin film nanocomposite membranes based on porous organic polymers for nanofiltration. Journal of Membrane Science, 2019, 585, 19-28. | 8.2 | 110 |
| 61 | Toward Resource Recovery from Textile Wastewater: Dye Extraction, Water and Base/Acid Regeneration Using a Hybrid NF-BMED Process. ACS Sustainable Chemistry and Engineering, 2015, 3, 1993-2001. | 6.7 | 109 |
| 62 | Zwitterionic functionalized MoS2 nanosheets for a novel composite membrane with effective salt/dye separation performance. Journal of Membrane Science, 2019, 573, 270-279. | 8.2 | 108 |
| 63 | Ion-Responsive Channels of Zwitterion-Carbon Nanotube Membrane for Rapid Water Permeation and Ultrahigh Mono-/Multivalent Ion Selectivity. ACS Nano, 2015, 9, 7488-7496. | 14.6 | 107 |
| 64 | Sustaining the Transition from a Petrobased to a Biobased Chemical Industry with Flow Chemistry. Topics in Current Chemistry, 2019, 377, 1. | 5.8 | 104 |
| 65 | Super-hydrophobic 3D printed polysulfone membranes with a switchable wettability by self-assembled candle soot for efficient gravity-driven oil/water separation. Journal of Materials Chemistry A, 2017, 5, 25401-25409. | 10.3 | 103 |
| 66 | CO ₂ Capture Using Hollow Fiber Membranes: A Review of Membrane Wetting. Energy & Fuels, 2018, 32, 963-978. | 5.1 | 101 |
| 67 | A Comparison of Models to Describe the Maximal Retention of Organic Molecules in Nanofiltration. Separation Science and Technology, 2000, 35, 169-182. | 2.5 | 100 |
| 68 | Flux Decline during Nanofiltration of Organic Components in Aqueous Solution. Environmental Science & Technology, 2001, 35, 3535-3540. | 10.0 | 100 |
| 69 | High performance loose nanofiltration membranes obtained by a catechol-based route for efficient dye/salt separation. Chemical Engineering Journal, 2019, 375, 121982. | 12.7 | 99 |
| 70 | Hydrogel assisted interfacial polymerization for advanced nanofiltration membranes. Journal of Materials Chemistry A, 2020, 8, 3238-3245. | 10.3 | 99 |
| 71 | Pervaporation as a tool in chemical engineering: a new era?. Current Opinion in Chemical Engineering, 2014, 4, 47-53. | 7.8 | 98 |
| 72 | Electrochemical oxidation of key pharmaceuticals using a boron doped diamond electrode. Separation and Purification Technology, 2018, 195, 184-191. | 7.9 | 98 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Challenges for recycling ionic liquids by using pressure driven membrane processes. Green Chemistry, 2010, 12, 2182. | 9.0 | 96 |
| 74 | Fabrication of composite polyamide/Kevlar aramid nanofiber nanofiltration membranes with high permselectivity in water desalination. Journal of Membrane Science, 2019, 592, 117396. | 8.2 | 94 |
| 75 | A comprehensive physico-chemical characterization of superhydrophilic loose nanofiltration membranes. Journal of Membrane Science, 2016, 501, 1-14. | 8.2 | 93 |
| 76 | Phase separation analysis of Extem/solvent/non-solvent systems and relation with membrane morphology. Journal of Membrane Science, 2017, 526, 301-314. | 8.2 | 93 |
| 77 | Performance of solvent resistant nanofiltration membranes for purification of residual solvent in the pharmaceutical industry: experiments and simulation. Green Chemistry, 2011, 13, 3476. | 9.0 | 91 |
| 78 | A Natural Driven Membrane Process for Brackish and Wastewater Treatment: Photovoltaic Powered ED and FO Hybrid System. Environmental Science & Technology, 2013, 47, 10548-10555. | 10.0 | 91 |
| 79 | Algae-laden water treatment using ultrafiltration: Individual and combined fouling effects of cells, debris, extracellular and intracellular organic matter. Journal of Membrane Science, 2017, 528, 178-186. | 8.2 | 91 |
| 80 | Guidelines based on life cycle assessment for solvent selection during the process design and evaluation of treatment alternatives. Green Chemistry, 2014, 16, 3045-3063. | 9.0 | 90 |
| 81 | Nanofibrous hydrogel composite membranes with ultrafast transport performance for molecular separation in organic solvents. Journal of Materials Chemistry A, 2019, 7, 19269-19279. | 10.3 | 90 |
| 82 | Advanced Amino Acid-Based Technologies for CO ₂ Capture: A Review. Industrial & Engineering Chemistry Research, 2019, 58, 20181-20194. | 3.7 | 88 |
| 83 | Mussel-inspired polydopamine modification of polymeric membranes for the application of water and wastewater treatment: A review. Chemical Engineering Research and Design, 2020, 157, 195-214. | 5.6 | 87 |
| 84 | Self-cleaning loose nanofiltration membranes enabled by photocatalytic Cu-triazolate MOFs for dye/salt separation. Journal of Membrane Science, 2021, 623, 119058. | 8.2 | 87 |
| 85 | Influence of the blend composition on the properties and separation performance of novel solvent resistant polyphenylsulfone/polyimide nanofiltration membranes. Journal of Membrane Science, 2013, 447, 107-118. | 8.2 | 86 |
| 86 | High-performance thin film nanocomposite membranes enabled by nanomaterials with different dimensions for nanofiltration. Journal of Membrane Science, 2020, 596, 117717. | 8.2 | 86 |
| 87 | Zwitterionic functionalized layered double hydroxides nanosheets for a novel charged mosaic membrane with high salt permeability. Journal of Membrane Science, 2016, 510, 27-37. | 8.2 | 85 |
| 88 | Enzymatic construction of antibacterial ultrathin membranes for dyes removal. Chemical Engineering Journal, 2017, 323, 56-63. | 12.7 | 85 |
| 89 | Effective dye purification using tight ceramic ultrafiltration membrane. Journal of Membrane Science, 2018, 566, 151-160. | 8.2 | 85 |
| 90 | Nanoscale tailor-made membranes for precise and rapid molecular sieve separation. Nanoscale, 2017, 9, 2942-2957. | 5.6 | 83 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Microporous organic polymer-based membranes for ultrafast molecular separations. Progress in Polymer Science, 2020, 110, 101308. | 24.7 | 83 |
| 92 | Water Reclamation in the Textile Industry:  Nanofiltration of Dye Baths for Wool Dyeing. Industrial & Engineering Chemistry Research, 2001, 40, 3973-3978. | 3.7 | 82 |
| 93 | Influence of organic solvents on the performance of polymeric nanofiltration membranes. Separation Science and Technology, 2002, 37, 783-797. | 2.5 | 82 |
| 94 | RO concentrate treatment by a hybrid system consisting of a pellet reactor and electrodialysis. Chemical Engineering Science, 2012, 79, 228-238. | 3.8 | 82 |
| 95 | Preparation of a monovalent selective anion exchange membrane through constructing a covalently crosslinked interface by electro-deposition of polyethyleneimine. Journal of Membrane Science, 2017, 539, 263-272. | 8.2 | 81 |
| 96 | Nanocarbon based composite electrodes and their application in microbial fuel cells. Journal of Materials Chemistry A, 2017, 5, 12673-12698. | 10.3 | 80 |
| 97 | Treatment options for nanofiltration and reverse osmosis concentrates from municipal wastewater treatment: A review. Critical Reviews in Environmental Science and Technology, 2019, 49, 2049-2116. | 12.8 | 80 |
| 98 | A Review on Ionic Liquid Gas Separation Membranes. Membranes, 2021, 11, 97. | 3.0 | 80 |
| 99 | A rapid deposition of polydopamine coatings induced by iron (III) chloride/hydrogen peroxide for loose nanofiltration. Journal of Colloid and Interface Science, 2018, 523, 86-97. | 9.4 | 79 |
| 100 | Structure architecture of micro/nanoscale ZIF-L on a 3D printed membrane for a superhydrophobic and underwater superoleophobic surface. Journal of Materials Chemistry A, 2019, 7, 2723-2729. | 10.3 | 79 |
| 101 | Separation of methanol–n-butyl acetate mixtures by pervaporation: Potential of 10 commercial membranes. Journal of Membrane Science, 2013, 429, 1-12. | 8.2 | 78 |
| 102 | Desalination feasibility study of an industrial NaCl stream by bipolar membrane electrodialysis. Journal of Environmental Management, 2014, 140, 69-75. | 7.8 | 78 |
| 103 | Microcystis aeruginosa -laden surface water treatment using ultrafiltration: Membrane fouling, cell integrity and extracellular organic matter rejection. Water Research, 2017, 112, 83-92. | 11.3 | 78 |
| 104 | Adsorption of Ni(II) on spent coffee and coffee husk based activated carbon. Journal of Environmental Chemical Engineering, 2018, 6, 1161-1170. | 6.7 | 78 |
| 105 | An MXene-based membrane for molecular separation. Environmental Science: Nano, 2020, 7, 1289-1304. | 4.3 | 78 |
| 106 | Effect of biopolymers and humic substances on gypsum scaling and membrane wetting during membrane distillation. Journal of Membrane Science, 2021, 617, 118638. | 8.2 | 78 |
| 107 | Fabrication of a high-flux thin film composite hollow fiber nanofiltration membrane for wastewater treatment. Journal of Membrane Science, 2015, 478, 25-36. | 8.2 | 77 |
| 108 | Fabrication of a thin film nanocomposite hollow fiber nanofiltration membrane for wastewater treatment. Journal of Membrane Science, 2015, 488, 92-102. | 8.2 | 77 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | Novel composite graphene oxide/chitosan nanoplates incorporated into PES based nanofiltration membrane: Chromium removal and antifouling enhancement. Journal of Industrial and Engineering Chemistry, 2018, 62, 311-320. | 5.8 | 77 |
| 110 | RO concentrate minimization by electrodialysis: Techno-economic analysis and environmental concerns. Journal of Environmental Management, 2012, 107, 28-36. | 7.8 | 75 |
| 111 | Organic solvent nanofiltration with Grignard functionalised ceramic nanofiltration membranes. Journal of Membrane Science, 2014, 454, 496-504. | 8.2 | 75 |
| 112 | Sustainable management of landfill leachate concentrate through recovering humic substance as liquid fertilizer by loose nanofiltration. Water Research, 2019, 157, 555-563. | 11.3 | 75 |
| 113 | Fabrication of thin film nanocomposite nanofiltration membrane incorporated with cellulose nanocrystals for removal of Cu(II) and Pb(II). Chemical Engineering Science, 2020, 228, 115998. | 3.8 | 75 |
| 114 | The use of BMED for glyphosate recovery from glyphosate neutralization liquor in view of zero discharge. Journal of Hazardous Materials, 2013, 260, 660-667. | 12.4 | 74 |
| 115 | Mixed matrix PES-based nanofiltration membrane decorated by (Fe3O4–polyvinylpyrrolidone) composite nanoparticles with intensified antifouling and separation characteristics. Chemical Engineering Research and Design, 2019, 147, 390-398. | 5.6 | 74 |
| 116 | Performance of Nanofiltration Membranes for Solvent Purification in the Oil Industry. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 1255-1261. | 1.9 | 73 |
| 117 | How to select a membrane distillation configuration? Process conditions and membrane influence unraveled. Desalination, 2016, 399, 105-115. | 8.2 | 73 |
| 118 | Electric-pulse layer-by-layer assembled of anion exchange membrane with enhanced monovalent selectivity. Journal of Membrane Science, 2018, 548, 81-90. | 8.2 | 73 |
| 119 | Sustainable implementation of innovative technologies for water purification. Nature Reviews Chemistry, 2021, 5, 217-218. | 30.2 | 73 |
| 120 | Slurry photocatalytic membrane reactor technology for removal of pharmaceutical compounds from wastewater: Towards cytostatic drug elimination. Science of the Total Environment, 2017, 599-600, 612-626. | 8.0 | 72 |
| 121 | Forward osmosis: understanding the hype. Reviews in Chemical Engineering, 2015, 31, 1-12. | 4.4 | 71 |
| 122 | Sulfonated reduced graphene oxide modification layers to improve monovalent anions selectivity and controllable resistance of anion exchange membrane. Journal of Membrane Science, 2017, 536, 167-175. | 8.2 | 71 |
| 123 | Low-pressure highly permeable polyester loose nanofiltration membranes tailored by natural carbohydrates for effective dye/salt fractionation. Journal of Hazardous Materials, 2022, 421, 126716. | 12.4 | 71 |
| 124 | Fouling, performance and cost analysis of membrane-based water desalination technologies: A critical review. Journal of Environmental Management, 2022, 301, 113922. | 7.8 | 71 |
| 125 | Separation of small organic ions from salts by ionâ€exchange membrane in electrodialysis. AICHE Journal, 2011, 57, 2070-2078. | 3.6 | 70 |
| 126 | Technology-driven layer-by-layer assembly of a membrane for selective separation of monovalent anions and antifouling. Nanoscale, 2019, 11, 2264-2274. | 5.6 | 70 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | A high flux organic solvent nanofiltration membrane from Kevlar aramid nanofibers with <i>in situ</i> incorporation of microspheres. Journal of Materials Chemistry A, 2018, 6, 22987-22997. | 10.3 | 69 |
| 128 | High-flux nanofiltration membranes tailored by bio-inspired co-deposition of hydrophilic g-C ₃ N ₄ nanosheets for enhanced selectivity towards organics and salts. Environmental Science: Nano, 2019, 6, 2958-2967. | 4.3 | 68 |
| 129 | Loose nanofiltration-based electrodialysis for highly efficient textile wastewater treatment. Journal of Membrane Science, 2020, 608, 118182. | 8.2 | 68 |
| 130 | Iron-tannin-framework complex modified PES ultrafiltration membranes with enhanced filtration performance and fouling resistance. Journal of Colloid and Interface Science, 2017, 505, 642-652. | 9.4 | 67 |
| 131 | Promising bulk production of a potentially benign bisphenol A replacement from a hardwood lignin platform. Green Chemistry, 2018, 20, 1050-1058. | 9.0 | 66 |
| 132 | "Sandwich―like structure modified anion exchange membrane with enhanced monovalent selectivity and fouling resistant. Journal of Membrane Science, 2018, 556, 98-106. | 8.2 | 66 |
| 133 | Fluoride Removal from Water by Membrane Capacitive Deionization with a Monovalent Anion Selective Membrane. Industrial & Engineering Chemistry Research, 2018, 57, 7048-7053. | 3.7 | 66 |
| 134 | Sustainable Management of Textile Wastewater: A Hybrid Tight Ultrafiltration/Bipolar-Membrane Electrodialysis Process for Resource Recovery and Zero Liquid Discharge. Industrial & Engineering Chemistry Research, 2019, 58, 11003-11012. | 3.7 | 66 |
| 135 | Simulation and environmental evaluation of process design: Distillation vs. hybrid distillation–pervaporation for methanol/tetrahydrofuran separation. Applied Energy, 2014, 113, 565-575. | 10.1 | 65 |
| 136 | Mixed matrix membranes containing MIL-53(Al) for potential application in organic solvent nanofiltration. RSC Advances, 2015, 5, 73068-73076. | 3.6 | 65 |
| 137 | A chemically assembled anion exchange membrane surface for monovalent anion selectivity and fouling reduction. Journal of Materials Chemistry A, 2019, 7, 6348-6356. | 10.3 | 65 |
| 138 | Ultrafiltration pre-oxidation by boron-doped diamond anode for algae-laden water treatment: membrane fouling mitigation, interface characteristics and cake layer organic release. Water Research, 2020, 187, 116435. | 11.3 | 65 |
| 139 | Nitrate Selectivity and Transport Properties of a Novel Anion Exchange Membrane in Electrodialysis. Electrochimica Acta, 2014, 144, 341-351. | 5.2 | 64 |
| 140 | Simultaneous regeneration of inorganic acid and base from a metal washing step wastewater by bipolar membrane electrodialysis after pretreatment by crystallization in a fluidized pellet reactor. Journal of Membrane Science, 2015, 473, 118-127. | 8.2 | 64 |
| 141 | Causes of Water Supply Problems in Urbanised Regions in Developing Countries. Water Resources Management, 2010, 24, 1885-1902. | 3.9 | 63 |
| 142 | Application of membrane distillation to anaerobic digestion effluent treatment: Identifying culprits of membrane fouling and scaling. Science of the Total Environment, 2019, 688, 880-889. | 8.0 | 63 |
| 143 | Facile synthesis of Kevlar nanofibrous membranes via regeneration of hydrogen bonds for organic solvent nanofiltration. Journal of Membrane Science, 2019, 573, 612-620. | 8.2 | 63 |
| 144 | Incorporation of Al2O3 into cellulose triacetate membranes to enhance the performance of pervaporation for desalination of hypersaline solutions. Desalination, 2020, 474, 114198. | 8.2 | 63 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Nonâ€dispersive absorption for CO ₂ capture: from the laboratory to industry. Journal of Chemical Technology and Biotechnology, 2011, 86, 769-775. | 3.2 | 62 |
| 146 | Oriented Clay Nanotube Membrane Assembled on Microporous Polymeric Substrates. ACS Applied Materials & Interfaces, 2016, 8, 34914-34923. | 8.0 | 62 |
| 147 | Fabrication of a MIL-53(Al) Nanocomposite Membrane and Potential Application in Desalination of Dye Solutions. Industrial & Engineering Chemistry Research, 2016, 55, 12099-12110. | 3.7 | 62 |
| 148 | Highly hydrophilic and antifouling nanofiltration membrane incorporated with water-dispersible composite activated carbon/chitosan nanoparticles. Chemical Engineering Research and Design, 2018, 132, 812-821. | 5.6 | 62 |
| 149 | Mussel-inspired sulfonated polydopamine coating on anion exchange membrane for improving permselectivity and anti-fouling property. Journal of Membrane Science, 2018, 550, 427-435. | 8.2 | 62 |
| 150 | Robust bio-inspired superhydrophilic and underwater superoleophobic membranes for simultaneously fast water and oil recovery. Journal of Membrane Science, 2021, 623, 119041. | 8.2 | 62 |
| 151 | Activated carbon nanoparticles entrapped mixed matrix polyethersulfone based nanofiltration membrane for sulfate and copper removal from water. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 169-178. | 5.3 | 61 |
| 152 | Codeposition Modification of Cation Exchange Membranes with Dopamine and Crown Ether To Achieve High K ⁺ Electrodialysis Selectivity. ACS Applied Materials & Interfaces, 2019, 11, 17730-17741. | 8.0 | 61 |
| 153 | Synthesis of a monovalent selective cation exchange membrane to concentrate reverse osmosis brines by electrodialysis. Desalination, 2015, 375, 1-9. | 8.2 | 60 |
| 154 | Stability of polyethersulfone membranes to oxidative agents: A review. Polymer Degradation and Stability, 2018, 157, 15-33. | 5.8 | 60 |
| 155 | Metal-organic framework based membranes for selective separation of target ions. Journal of Membrane Science, 2021, 634, 119407. | 8.2 | 60 |
| 156 | Ozone oxidation of nanofiltration concentrates alleviates membrane fouling in drinking water industry. Journal of Membrane Science, 2011, 378, 128-137. | 8.2 | 59 |
| 157 | Membrane Crystallization of Sodium Carbonate for Carbon Dioxide Recovery: Effect of Impurities on the Crystal Morphology. Crystal Growth and Design, 2013, 13, 2362-2372. | 3.0 | 59 |
| 158 | Bio-inspired anchoring of amino-functionalized multi-wall carbon nanotubes (N-MWCNTs) onto PES membrane using polydopamine for oily wastewater treatment. Science of the Total Environment, 2020, 711, 134951. | 8.0 | 59 |
| 159 | Composite anti-scaling membrane made of interpenetrating networks of nanofibers for selective separation of lithium. Journal of Membrane Science, 2021, 618, 118668. | 8.2 | 59 |
| 160 | Fabrication of a novel dual-layer (PES/PVDF) hollow fiber ultrafiltration membrane for wastewater treatment. Journal of Membrane Science, 2014, 472, 119-132. | 8.2 | 58 |
| 161 | Hydrophilic nanofiltration membranes with reduced humic acid fouling fabricated from copolymers designed by introducing carboxyl groups in the pendant benzene ring. Journal of Membrane Science, 2018, 563, 655-663. | 8.2 | 58 |
| 162 | Current pesticide practices and environmental issues in Vietnam: management challenges for sustainable use of pesticides for tropical crops in (South-East) Asia to avoid environmental pollution. Journal of Material Cycles and Waste Management, 2012, 14, 379-387. | 3.0 | 57 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Tunable Nanoscale Interlayer of Graphene with Symmetrical Polyelectrolyte Multilayer Architecture for Lithium Extraction. Advanced Materials Interfaces, 2018, 5, 1701449. | 3.7 | 57 |
| 164 | A free-standing 3D nano-composite photo-electrode—Ag/ZnO nanorods arrays on Ni foam effectively degrade berberine. Chemical Engineering Journal, 2019, 373, 179-191. | 12.7 | 57 |
| 165 | A facile avenue to modify polyelectrolyte multilayers on anion exchange membranes to enhance monovalent selectivity and durability simultaneously. Journal of Membrane Science, 2017, 543, 310-318. | 8.2 | 56 |
| 166 | A Facile and Scalable Fabrication Procedure for Thin-Film Composite Membranes: Integration of Phase Inversion and Interfacial Polymerization. Environmental Science & Technology, 2020, 54, 1946-1954. | 10.0 | 56 |
| 167 | Solute transport in non-aqueous nanofiltration: effect of membrane material. Journal of Chemical Technology and Biotechnology, 2005, 80, 1371-1377. | 3.2 | 55 |
| 168 | Exergy analysis of energyâ€intensive production processes: advancing towards a sustainable chemical industry. Journal of Chemical Technology and Biotechnology, 2014, 89, 1288-1303. | 3.2 | 55 |
| 169 | Novel composite cation exchange films based on sulfonated PVDF for electromembrane separations. Journal of Membrane Science, 2015, 474, 167-174. | 8.2 | 55 |
| 170 | Tailoring the separation performance and fouling reduction of PES based nanofiltration membrane by using a PVA/Fe3O4 coating layer. Chemical Engineering Research and Design, 2019, 144, 418-428. | 5.6 | 55 |
| 171 | Simultaneous Removal of Trivalent Chromium and Hexavalent Chromium from Soil Using a Modified Bipolar Membrane Electrodialysis System. Environmental Science & Technology, 2020, 54, 13304-13313. | 10.0 | 55 |
| 172 | Predicted concentrations of anticancer drugs in the aquatic environment: What should we monitor and where should we treat?. Journal of Hazardous Materials, 2020, 392, 122330. | 12.4 | 55 |
| 173 | Separation of textile wastewater using a highly permeable resveratrol-based loose nanofiltration membrane with excellent anti-fouling performance. Chemical Engineering Journal, 2022, 434, 134705. | 12.7 | 55 |
| 174 | Wetting Resistance of Commercial Membrane Distillation Membranes in Waste Streams Containing Surfactants and Oil. Applied Sciences (Switzerland), 2017, 7, 118. | 2.5 | 54 |
| 175 | New promising polymer for organic solvent nanofiltration: Oxidized poly (arylene sulfide sulfone). Journal of Membrane Science, 2018, 549, 438-445. | 8.2 | 54 |
| 176 | Treatment of anaerobic digestion effluent using membrane distillation: Effects of feed acidification on pollutant removal, nutrient concentration and membrane fouling. Desalination, 2019, 449, 6-15. | 8.2 | 54 |
| 177 | Surface modification of composite ion exchange membranes by polyaniline. Reactive and Functional Polymers, 2015, 86, 161-167. | 4.1 | 53 |
| 178 | Recent Progress and Novel Applications in Enzymatic Conversion of Carbon Dioxide. Energies, 2017, 10, 473. | 3.1 | 53 |
| 179 | Thermo- and pH-responsive graphene oxide membranes with tunable nanochannels for water gating and permeability of small molecules. Journal of Membrane Science, 2019, 587, 117163. | 8.2 | 53 |
| 180 | Flexible Aliphatic–Aromatic Polyamide Thin Film Composite Membrane for Highly Efficient Organic Solvent Nanofiltration. ACS Applied Materials & Interfaces, 2020, 12, 31962-31974. | 8.0 | 53 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 181 | Facile fabrication of a positively charged nanofiltration membrane for heavy metal and dye removal. Separation and Purification Technology, 2022, 282, 120155. | 7.9 | 53 |
| 182 | Assessment of a semi-quantitative method for estimation of the rejection of organic compounds in aqueous solution in nanofiltration. Journal of Chemical Technology and Biotechnology, 2006, 81, 1166-1176. | 3.2 | 52 |
| 183 | Nano-WS2 embedded PES membrane with improved fouling and permselectivity. Journal of Colloid and Interface Science, 2013, 396, 120-128. | 9.4 | 52 |
| 184 | Mono-valent cation selective membranes for electrodialysis by introducing polyquaternium-7 in a commercial cation exchange membrane. Journal of Membrane Science, 2015, 486, 89-96. | 8.2 | 52 |
| 185 | Aramid nanofiber and modified ZIF-8 constructed porous nanocomposite membrane for organic solvent nanofiltration. Journal of Membrane Science, 2020, 603, 118002. | 8.2 | 52 |
| 186 | Performance of Grignard functionalized ceramic nanofiltration membranes. Separation and Purification Technology, 2015, 147, 320-328. | 7.9 | 51 |
| 187 | Preparation of High-Flux Nanoporous Solvent Resistant Polyacrylonitrile Membrane with Potential Fractionation of Dyes and Na ₂ SO ₄ . Industrial & Engineering Chemistry Research, 2017, 56, 11967-11976. | 3.7 | 51 |
| 188 | Support membrane pore blockage (SMPB): An important phenomenon during the fabrication of thin film composite membrane via interfacial polymerization. Separation and Purification Technology, 2019, 215, 670-680. | 7.9 | 51 |
| 189 | Nanofiltration of Nonionic Surfactants:  Effect of the Molecular Weight Cutoff and Contact Angle on Flux Behavior. Industrial & Engineering Chemistry Research, 2005, 44, 7652-7658. | 3.7 | 50 |
| 190 | Fouling behavior of polyethersulfone ultrafiltration membranes functionalized with sol–gel formed ZnO nanoparticles. RSC Advances, 2015, 5, 50711-50719. | 3.6 | 50 |
| 191 | Influence of PVP content on degradation of PES/PVP membranes: Insights from characterization of membranes with controlled composition. Journal of Membrane Science, 2017, 533, 261-269. | 8.2 | 50 |
| 192 | Treatment of anticancer drugs in hospital and wastewater effluents using nanofiltration. Separation and Purification Technology, 2019, 224, 273-280. | 7.9 | 50 |
| 193 | Functionalized poly(arylene ether sulfone) containing hydroxyl units for the fabrication of durable, superhydrophobic oil/water separation membranes. Nanoscale, 2019, 11, 7166-7175. | 5.6 | 50 |
| 194 | Effect of solvent on the morphology and performance of cellulose triacetate membrane/cellulose nanocrystal nanocomposite pervaporation desalination membranes. Chemical Engineering Journal, 2020, 388, 124216. | 12.7 | 50 |
| 195 | Effect of TiO2 content on the properties of polysulfone nanofiltration membranes modified with a layer of TiO2–graphene oxide. Separation and Purification Technology, 2020, 242, 116770. | 7.9 | 50 |
| 196 | Internal cross-linked anion exchange membranes with improved dimensional stability for electrodialysis. Journal of Membrane Science, 2017, 542, 280-288. | 8.2 | 49 |
| 197 | Potential of DMSO as greener solvent for PES ultra―and nanofiltration membrane preparation. Journal of Applied Polymer Science, 2018, 135, 46494. | 2.6 | 49 |
| 198 | Improving the performance of loose nanofiltration membranes by poly-dopamine/zwitterionic polymer coating with hydroxyl radical activation. Separation and Purification Technology, 2020, 238, 116412. | 7.9 | 49 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 199 | Interfacially Polymerized Thinâ€Film Composite Membranes for Organic Solvent Nanofiltration. Advanced Materials Interfaces, 2021, 8, 2001671. | 3.7 | 49 |
| 200 | Enhanced Performance of Polyurethane Hybrid Membranes for CO ₂ Separation by Incorporating Graphene Oxide: The Relationship between Membrane Performance and Morphology of Graphene Oxide. Environmental Science & Technology, 2015, 49, 8004-8011. | 10.0 | 48 |
| 201 | A synergetic analysis method for antifouling behavior investigation on PES ultrafiltration membrane with self-assembled TiO2 nanoparticles. Journal of Colloid and Interface Science, 2016, 469, 164-176. | 9.4 | 48 |
| 202 | Layer-by-layer assembly of anion exchange membrane by electrodeposition of polyelectrolytes for improved antifouling performance. Journal of Membrane Science, 2018, 558, 1-8. | 8.2 | 48 |
| 203 | Polyelectrolytes self-assembly: versatile membrane fabrication strategy. Journal of Materials Chemistry A, 2020, 8, 20870-20896. | 10.3 | 48 |
| 204 | Evaluating the ion transport characteristics of novel graphene oxide nanoplates entrapped mixed matrix cation exchange membranes in water deionization. Journal of Membrane Science, 2017, 541, 641-652. | 8.2 | 47 |
| 205 | Facile preparation of COF composite membranes for nanofiltration by stoichiometric spraying layer-by-layer self-assembly. Chemical Communications, 2020, 56, 419-422. | 4.1 | 47 |
| 206 | Porous organic polymer embedded thin-film nanocomposite membranes for enhanced nanofiltration performance. Journal of Membrane Science, 2020, 602, 117982. | 8.2 | 47 |
| 207 | Performance of Solvent-Pretreated Polyimide Nanofiltration Membranes for Separation of Dissolved Dyes from Toluene. Industrial & Engineering Chemistry Research, 2010, 49, 9330-9338. | 3.7 | 46 |
| 208 | Formation of morphologically confined nanospaces <i>via</i> self-assembly of graphene and nanospheres for selective separation of lithium. Journal of Materials Chemistry A, 2018, 6, 18859-18864. | 10.3 | 46 |
| 209 | Sugar-based membranes for nanofiltration. Journal of Membrane Science, 2021, 619, 118786. | 8.2 | 46 |
| 210 | Direct generation of an ultrathin (8.5Ânm) polyamide film with ultrahigh water permeance via in-situ interfacial polymerization on commercial substrate membrane. Journal of Membrane Science, 2021, 634, 119450. | 8.2 | 46 |
| 211 | The use of integrated countercurrent nanofiltration cascades for advanced separations. Journal of Chemical Technology and Biotechnology, 2009, 84, 391-398. | 3.2 | 45 |
| 212 | Effect of the manufacturing conditions on the structure and performance of thinâ€film composite membranes. Journal of Applied Polymer Science, 2012, 125, 3755-3769. | 2.6 | 45 |
| 213 | SIFSIX-3-Zn/PIM-1 mixed matrix membranes with enhanced permeability for propylene/propane separation. Journal of Membrane Science, 2019, 588, 117201. | 8.2 | 45 |
| 214 | Humic acid fouling in a submerged photocatalytic membrane reactor with binary TiO 2 –ZrO 2 particles. Journal of Industrial and Engineering Chemistry, 2015, 21, 779-786. | 5.8 | 44 |
| 215 | Mussel-inspired modification of ion exchange membrane for monovalent separation. Journal of Membrane Science, 2018, 553, 139-150. | 8.2 | 44 |
| 216 | Robust Multilayer Graphene–Organic Frameworks for Selective Separation of Monovalent Anions. ACS Applied Materials & Interfaces, 2018, 10, 18426-18433. | 8.0 | 44 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 217 | Treatment of raffinate generated via copper ore hydrometallurgical processing using a bipolar membrane electrodialysis system. Chemical Engineering Journal, 2020, 382, 122956. | 12.7 | 44 |
| 218 | Efficiency and mechanism of 2,4-dichlorophenol degradation by the UV/IO4â^' process. Science of the Total Environment, 2021, 782, 146781. | 8.0 | 44 |
| 219 | Rejection of trace organic pollutants with high pressure membranes (NF/RO). Environmental Progress, 2008, 27, 180-188. | 0.7 | 43 |
| 220 | Integration of reverse osmosis and membrane crystallization for sodium sulphate recovery. Chemical Engineering and Processing: Process Intensification, 2014, 85, 57-68. | 3.6 | 43 |
| 221 | Process Economic Evaluation of Resource Valorization of Seawater Concentrate by Membrane Technology. ACS Sustainable Chemistry and Engineering, 2017, 5, 5820-5830. | 6.7 | 43 |
| 222 | Binary metal oxides for composite ultrafiltration membranes. Journal of Materials Chemistry A, 2014, 2, 7054-7064. | 10.3 | 42 |
| 223 | Enhanced performance of a biomimetic membrane for Na2CO3 crystallization in the scenario of CO2 capture. Journal of Membrane Science, 2016, 498, 75-85. | 8.2 | 42 |
| 224 | Production of polyamide-12 membranes for microfiltration through selective laser sintering. Journal of Membrane Science, 2017, 525, 157-162. | 8.2 | 42 |
| 225 | Engineering of thermo-/pH-responsive membranes with enhanced gating coefficients, reversible behaviors and self-cleaning performance through acetic acid boosted microgel assembly. Journal of Materials Chemistry A, 2018, 6, 11874-11883. | 10.3 | 42 |
| 226 | Removal of As(V) from simulated groundwater using forward osmosis: Effect of competing and coexisting solutes. Desalination, 2014, 348, 33-38. | 8.2 | 41 |
| 227 | Magnetic cation exchange membrane incorporated with cobalt ferrite nanoparticles for chromium ions removal via electrodialysis. Journal of Membrane Science, 2019, 583, 292-300. | 8.2 | 41 |
| 228 | From waste disposal to valuable material: Sulfonating polystyrene waste for heavy metal removal. Journal of Environmental Chemical Engineering, 2020, 8, 104302. | 6.7 | 41 |
| 229 | Zr-Porphyrin Metal–Organic Framework-Based Photocatalytic Self-Cleaning Membranes for Efficient Dye Removal. Industrial & Engineering Chemistry Research, 2021, 60, 1850-1858. | 3.7 | 41 |
| 230 | Hybrid operation of the bio-ethanol fermentation. Separation and Purification Technology, 2015, 149, 322-330. | 7.9 | 40 |
| 231 | Shortcut applications of the Hansen Solubility Parameter for Organic Solvent Nanofiltration. Journal of Membrane Science, 2018, 546, 120-127. | 8.2 | 40 |
| 232 | UV–Visible Light Driven Photocatalytic Degradation of Ciprofloxacin by N,S Co-doped TiO2: The Effect of Operational Parameters. Topics in Catalysis, 2020, 63, 985-995. | 2.8 | 40 |
| 233 | Electric field-based ionic control of selective separation layers. Journal of Materials Chemistry A, 2020, 8, 4244-4251. | 10.3 | 40 |
| 234 | MOF-based membranes for pervaporation. Separation and Purification Technology, 2021, 278, 119233. | 7.9 | 40 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 235 | Selective removal of heavy metals from saline water by nanofiltration. Desalination, 2022, 525, 115380. | 8.2 | 40 |
| 236 | Technical viability and exergy analysis of membrane crystallization: Closing the loop of CO2 sequestration. International Journal of Greenhouse Gas Control, 2013, 12, 450-459. | 4.6 | 39 |
| 237 | Preparation of highly pure tetrapropyl ammonium hydroxide using continuous bipolar membrane electrodialysis. Chemical Engineering Journal, 2013, 220, 311-319. | 12.7 | 39 |
| 238 | Extraction of Amphoteric Amino Acid by Bipolar Membrane Electrodialysis: Methionine Acid as a Case Study. Industrial & Engineering Chemistry Research, 2016, 55, 2813-2820. | 3.7 | 39 |
| 239 | Effects of climate change on water savings and water security from rainwater harvesting systems. Resources, Conservation and Recycling, 2018, 138, 49-63. | 10.8 | 39 |
| 240 | Hierarchically structured carbon materials derived from lotus leaves as efficient electrocatalyst for microbial energy harvesting. Science of the Total Environment, 2019, 666, 865-874. | 8.0 | 39 |
| 241 | Novel Composite Anion Exchange Membranes Based on Quaternized Polyepichlorohydrin for Electromembrane Application. Industrial & Engineering Chemistry Research, 2016, 55, 7171-7178. | 3.7 | 38 |
| 242 | Fabrication of Polyimide Membrane Incorporated with Functional Graphene Oxide for CO ₂ Separation: The Effects of GO Surface Modification on Membrane Performance. Environmental Science & Technology, 2017, 51, 6202-6210. | 10.0 | 38 |
| 243 | One-pot approach to prepare internally cross-linked monovalent selective anion exchange membranes. Journal of Membrane Science, 2018, 553, 43-53. | 8.2 | 38 |
| 244 | Coating techniques for membrane distillation: An experimental assessment. Separation and Purification Technology, 2018, 193, 38-48. | 7.9 | 38 |
| 245 | CO2 Capture by Alkaline Solution for Carbonate Production: A Comparison between a Packed Column and a Membrane Contactor. Applied Sciences (Switzerland), 2018, 8, 996. | 2.5 | 38 |
| 246 | Nanocomposite pervaporation membrane for desalination. Chemical Engineering Research and Design, 2020, 164, 147-161. | 5.6 | 38 |
| 247 | Integrated loose nanofiltration-electrodialysis process for sustainable resource extraction from high-salinity textile wastewater. Journal of Hazardous Materials, 2021, 419, 126505. | 12.4 | 38 |
| 248 | Assessment of the effluent quality of wet coffee processing wastewater and its influence on downstream water quality. Ecohydrology and Hydrobiology, 2018, 18, 201-211. | 2.3 | 37 |
| 249 | Comparative studies on fouling of homogeneous anion exchange membranes by different structured organics in electrodialysis. Journal of Environmental Sciences, 2019, 77, 218-228. | 6.1 | 37 |
| 250 | Transport of Binary Mixtures in Pervaporation through a Microporous Silica Membrane: Shortcomings of Fickian Models. Separation Science and Technology, 2007, 42, 1-23. | 2.5 | 36 |
| 251 | Cost-benefit analysis of central softening for production of drinking water. Journal of Environmental Management, 2009, 91, 541-549. | 7.8 | 36 |
| 252 | One-step fabrication of isotropic poly(vinylidene fluoride) membranes for direct contact membrane distillation (DCMD). Desalination, 2020, 477, 114265. | 8.2 | 36 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 253 | New Chemistry for Mixed Matrix Membranes: Growth of Continuous Multilayer UiO-66-NH ₂ on UiO-66-NH ₂ -Based Polyacrylonitrile for Highly Efficient Separations. Industrial & Engineering Chemistry Research, 2020, 59, 7825-7838. | 3.7 | 36 |
| 254 | Advanced ion transfer materials in electro-driven membrane processes for sustainable ion-resource extraction and recovery. Progress in Materials Science, 2022, 128, 100958. | 32.8 | 36 |
| 255 | Enhancement of poly(phenyl sulfone) membranes with ZnO nanoparticles. Desalination and Water Treatment, 2013, 51, 6070-6081. | 1.0 | 35 |
| 256 | A novel UV-crosslinked sulphonated polysulfone cation exchange membrane with improved dimensional stability for electrodialysis. Desalination, 2017, 415, 29-39. | 8.2 | 35 |
| 257 | Development and characterization of polyethersulfone-based nanofiltration membrane with stability to hydrogen peroxide. Journal of Membrane Science, 2018, 550, 462-469. | 8.2 | 35 |
| 258 | Nanocomposite polyvinyl chloride-based heterogeneous cation exchange membrane prepared by synthesized ZnQ2 nanoparticles: Ionic behavior and morphological characterization. Journal of Membrane Science, 2018, 560, 1-10. | 8.2 | 35 |
| 259 | Construction of graphene oxide based mixed matrix membranes with CO ₂ -philic sieving gas-transport channels through strong ï€â€"ï€ interactions. Journal of Materials Chemistry A, 2018, 6, 17854-17860. | 10.3 | 35 |
| 260 | Application of UV/chlorine pretreatment for controlling ultrafiltration (UF) membrane fouling caused by different natural organic fractions. Chemosphere, 2021, 263, 127993. | 8.2 | 35 |
| 261 | Controllable and Rapid Synthesis of Conjugated Microporous Polymer Membranes via Interfacial Polymerization for Ultrafast Molecular Separation. Chemistry of Materials, 2021, 33, 7047-7056. | 6.7 | 35 |
| 262 | Omnifarious performance promotion of the TFC NF membrane prepared with hyperbranched polyester intervened interfacial polymerization. Journal of Membrane Science, 2022, 642, 119984. | 8.2 | 35 |
| 263 | Biogas slurry concentration hybrid membrane process: Pilot-testing and RO membrane cleaning. Desalination, 2015, 368, 171-180. | 8.2 | 34 |
| 264 | Aminosilane cross-linked poly ether-block-amide PEBAX 2533: Characterization and CO2 separation properties. Korean Journal of Chemical Engineering, 2019, 36, 1339-1349. | 2.7 | 34 |
| 265 | MOF laminates functionalized polyamide self-cleaning membrane for advanced loose nanofiltration. Separation and Purification Technology, 2021, 275, 119150. | 7.9 | 34 |
| 266 | Cotton and polyester dyeing using nanofiltered wastewater. Dyes and Pigments, 2007, 74, 313-319. | 3.7 | 33 |
| 267 | Poly(vinylidene fluorideâ€ <i>co</i> â€hexafluoropropylene) (PVDFâ€ <i>co</i> â€HFP) hollow fiber membranes prepared from PVDFâ€ <i>co</i> â€HFP/PECâ€600Mw/DMAC solution for membrane distillation. Journal of Applied Polymer Science, 2013, 129, 3304-3313. | 2.6 | 33 |
| 268 | Embedding TiO2 nanoparticles versus surface coating by layer-by-layer deposition on nanoporous polymeric films. Microporous and Mesoporous Materials, 2013, 173, 121-128. | 4.4 | 33 |
| 269 | Co-ion fluxes of simple inorganic ions in electrodialysis metathesis and conventional electrodialysis. Journal of Membrane Science, 2015, 492, 263-270. | 8.2 | 33 |
| 270 | Triethanolamine modification produces ultra-permeable nanofiltration membrane with enhanced removal efficiency of heavy metal ions. Journal of Membrane Science, 2022, 644, 120127. | 8.2 | 33 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 271 | A PEI/TMC membrane modified with an ionic liquid with enhanced permeability and antibacterial properties for the removal of heavy metal ions. Journal of Hazardous Materials, 2022, 435, 129010. | 12.4 | 33 |
| 272 | Electrodialysis and nanofiltration of surface water for subsequent use as infiltration water. Water Research, 2003, 37, 3867-3874. | 11.3 | 32 |
| 273 | Experimental investigation of the effect of addition of different activators to aqueous solution of potassium carbonate: Absorption rate and solubility. International Journal of Greenhouse Gas Control, 2016, 45, 27-33. | 4.6 | 32 |
| 274 | Nanofiber Based Organic Solvent Anion Exchange Membranes for Selective Separation of Monovalent anions. ACS Applied Materials & amp; Interfaces, 2020, 12, 7539-7547. | 8.0 | 32 |
| 275 | Mechanistic Insights of a Thermoresponsive Interface for Fouling Control of Thin-Film Composite Nanofiltration Membranes. Environmental Science & Technology, 2022, 56, 1927-1937. | 10.0 | 32 |
| 276 | Characteristics and Performance of a "Universal―Membrane Suitable for Gas Separation, Pervaporation, and Nanofiltration Applications. Journal of Physical Chemistry B, 2006, 110, 13799-13803. | 2.6 | 31 |
| 277 | Life cycle assessment of alternatives for waste-solvent valorization: batch and continuous distillation vs incineration. International Journal of Life Cycle Assessment, 2013, 18, 1048-1061. | 4.7 | 31 |
| 278 | A ground breaking polymer blend for CO2/N2 separation. Journal of CO2 Utilization, 2018, 27, 536-546. | 6.8 | 31 |
| 279 | Bioinspired dual stimuli-responsive membranes with enhanced gating ratios and reversible performances for water gating. Journal of Membrane Science, 2018, 564, 53-61. | 8.2 | 31 |
| 280 | Microfiltration, ultrafiltration, nanofiltration, reverse osmosis, and forward osmosis. , 2018, , 25-70. | | 31 |
| 281 | Alternating current enhanced deposition of a monovalent selective coating for anion exchange membranes with antifouling properties. Separation and Purification Technology, 2019, 229, 115807. | 7.9 | 31 |
| 282 | Formation of an interconnected lamellar structure in PVDF membranes with nanoparticles addition via solidâ€liquid thermally induced phase separation. Journal of Applied Polymer Science, 2013, 127, 2715-2723. | 2.6 | 30 |
| 283 | <i>110th Anniversary:</i> Cellulose Nanocrystals as Organic Nanofillers for Cellulose Triacetate Membranes Used for Desalination by Pervaporation. Industrial & Engineering Chemistry Research, 2019, 58, 14340-14349. | 3.7 | 30 |
| 284 | Thin and robust organic solvent cation exchange membranes for ion separation. Journal of Materials Chemistry A, 2019, 7, 13903-13909. | 10.3 | 30 |
| 285 | Composting and co-composting of coffee husk and pulp with source-separated municipal solid waste: a breakthrough in valorization of coffee waste. International Journal of Recycling of Organic Waste in Agriculture, 2019, 8, 263-277. | 2.0 | 30 |
| 286 | Separation of racemic compound by nanofibrous composite membranes with chiral selector. Journal of Membrane Science, 2020, 596, 117728. | 8.2 | 30 |
| 287 | Current status of textile wastewater management practices and effluent characteristics in Tanzania. Water Science and Technology, 2021, 83, 2363-2376. | 2.5 | 30 |
| 288 | Modelling of the separation performance and electrokinetic properties of nanofiltration membranes. International Reviews in Physical Chemistry, 2012, 31, 111-130. | 2.3 | 29 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 289 | Identification of optimum synthesis conditions for a novel anion exchange membrane by response surface methodology. Journal of Applied Polymer Science, 2014, 131, . | 2.6 | 29 |
| 290 | Membrane crystallization for the recovery of a pharmaceutical compound from waste streams. Chemical Engineering Research and Design, 2014, 92, 264-272. | 5.6 | 29 |
| 291 | Purification of biodiesel using a membrane contactor: Liquid–liquid extraction. Fuel Processing Technology, 2016, 142, 352-360. | 7.2 | 29 |
| 292 | Recovery of chemically degraded polyethyleneimine by a re-modification method: prolonging the lifetime of cation exchange membranes. RSC Advances, 2016, 6, 16548-16554. | 3.6 | 29 |
| 293 | Highly conductive anion exchange membranes with low water uptake and performance evaluation in electrodialysis. Separation and Purification Technology, 2019, 211, 481-490. | 7.9 | 29 |
| 294 | 3D printed chemically and mechanically robust membrane by selective laser sintering for separation of oil/water and immiscible organic mixtures. Chemical Engineering Journal, 2020, 385, 123816. | 12.7 | 29 |
| 295 | Introducing gel-based UiO-66-NH2 into polyamide matrix for preparation of new super hydrophilic membrane with superior performance in dyeing wastewater treatment. Journal of Environmental Chemical Engineering, 2021, 9, 105484. | 6.7 | 29 |
| 296 | Self-assembled embedding of ion exchange materials into nanofiber-based hydrogel framework for fluoride capture. Chemical Engineering Journal, 2022, 431, 134201. | 12.7 | 29 |
| 297 | Tailoring the electrochemical properties of ED ion exchange membranes based on the synergism of TiO2 nanoparticles-co-GO nanoplates. Journal of Colloid and Interface Science, 2017, 505, 763-775. | 9.4 | 28 |
| 298 | Preparation and characterization of an amphiphilic polyamide nanofiltration membrane with improved antifouling properties by two-step surface modification method. RSC Advances, 2018, 8, 13353-13363. | 3.6 | 28 |
| 299 | Theoretical and experimental study of organic fouling of loose nanofiltration membrane. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 509-518. | 5.3 | 28 |
| 300 | Sustainable management of landfill leachate concentrate via nanofiltration enhanced by one-step rapid assembly of metal-organic coordination complexes. Water Research, 2021, 204, 117633. | 11.3 | 28 |
| 301 | Pervaporation of Binary and Ternary Mixtures of Water with Methanol and/or Ethanol. Separation Science and Technology, 2005, 39, 563-580. | 2.5 | 27 |
| 302 | Mimicking the cell membrane: bio-inspired simultaneous functions with monovalent anion selectivity and antifouling properties of anion exchange membrane. Scientific Reports, 2016, 6, 37285. | 3.3 | 27 |
| 303 | Removal and recovery of lead from wastewater using an integrated system of adsorption and crystallization. Journal of Cleaner Production, 2019, 213, 1204-1216. | 9.3 | 27 |
| 304 | Novel anion exchange membrane with low ionic resistance based on chloromethylated/quaternizedâ€grafted polystyrene for energy efficient electromembrane processes. Journal of Applied Polymer Science, 2020, 137, 48656. | 2.6 | 27 |
| 305 | Selective electrodialysis for simultaneous but separate phosphate and ammonium recovery. Environmental Technology (United Kingdom), 2021, 42, 2177-2186. | 2.2 | 27 |
| 306 | Nano/microstructure decorated thin film composite poly (arylene sulfide sulfone) membrane constructed by induced fouling in organic solvent ultrafiltration. Chemical Engineering Journal, 2018, 348, 180-190. | 12.7 | 26 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 307 | Surface layer modification of AEMs by infiltration and photoâ€crossâ€ŀinking to induce monovalent selectivity. AICHE Journal, 2018, 64, 993-1000. | 3.6 | 26 |
| 308 | Symmetrically recombined nanofibers in a high-selectivity membrane for cation separation in high temperature and organic solvent. Journal of Materials Chemistry A, 2019, 7, 20006-20012. | 10.3 | 26 |
| 309 | Cr(III) recovery in form of Na2CrO4 from aqueous solution using improved bipolar membrane electrodialysis. Journal of Membrane Science, 2020, 604, 118097. | 8.2 | 26 |
| 310 | Fabrication of PES-based super-hydrophilic ultrafiltration membranes by combining hydrous ferric oxide particles and UV irradiation. Separation and Purification Technology, 2021, 259, 118132. | 7.9 | 26 |
| 311 | Exfoliated MoS2 nanosheets loaded on bipolar exchange membranes interfaces as advanced catalysts for water dissociation. Separation and Purification Technology, 2018, 194, 416-424. | 7.9 | 25 |
| 312 | Effect of (TiO2: ZnO) ratio on the anti-fouling properties of bio-inspired nanofiltration membranes. Separation and Purification Technology, 2020, 251, 117280. | 7.9 | 25 |
| 313 | Fabrication of a dual-layer (CA/PVDF) hollow fiber membrane for RO concentrate treatment. Desalination, 2015, 365, 57-69. | 8.2 | 24 |
| 314 | Potential of Osmotic Membrane Crystallization Using Dense Membranes for Na ₂ CO ₃ Production in a CO ₂ Capture Scenario. Crystal Growth and Design, 2015, 15, 695-705. | 3.0 | 24 |
| 315 | Stable cycloaliphatic quaternary ammonium-tethered anion exchange membranes for electrodialysis. Reactive and Functional Polymers, 2018, 130, 61-69. | 4.1 | 24 |
| 316 | Elevated nanofiltration performance via mussel-inspired co-deposition for sustainable resource extraction from landfill leachate concentrate. Chemical Engineering Journal, 2020, 388, 124200. | 12.7 | 24 |
| 317 | Ultra-high flux alkali-treated cellulose triacetate/cellulose nanocrystal nanocomposite membrane for pervaporation desalination. Chemical Engineering Science, 2021, 231, 116276. | 3.8 | 24 |
| 318 | A review of zeolite materials used in membranes for water purification: history, applications, challenges and future trends. Journal of Chemical Technology and Biotechnology, 2022, 97, 575-596. | 3.2 | 24 |
| 319 | A novel ceramic-based thin-film composite nanofiltration membrane with enhanced performance and regeneration potential. Water Research, 2022, 215, 118264. | 11.3 | 24 |
| 320 | Miscibility of polyimide blends: Physicochemical characterization of two high performance polyimide polymers. Reactive and Functional Polymers, 2017, 111, 88-101. | 4.1 | 23 |
| 321 | Remarkable Anti-Fouling Performance of TiO2-Modified TFC Membranes with Mussel-Inspired Polydopamine Binding. Applied Sciences (Switzerland), 2017, 7, 81. | 2.5 | 23 |
| 322 | Reverse osmosis brine treatment using direct contact membrane distillation (DCMD): effect of membrane characteristics on desalination performance and the wetting phenomenon. Environmental Science: Water Research and Technology, 2018, 4, 428-437. | 2.4 | 23 |
| 323 | Versatile and scalable synthesis of cyclic organic carbonates under organocatalytic continuous flow conditions. Catalysis Science and Technology, 2019, 9, 6841-6851. | 4.1 | 23 |
| 324 | Advanced oxidation of benzalkonium chloride in aqueous media under ozone and ozone/UV systems – Degradation kinetics and toxicity evaluation. Chemical Engineering Journal, 2021, 413, 127431. | 12.7 | 23 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 325 | Evaluation of Two Lowâ€Cost–Highâ€Performance Adsorbent Materials in the Wasteâ€ŧoâ€Product Approach for the Removal of Pesticides from Drinking Water. Clean - Soil, Air, Water, 2012, 40, 246-253. | 1.1 | 22 |
| 326 | Extracellular polymeric substances removal of dual-layer (PES/PVDF) hollow fiber UF membrane comprising multi-walled carbon nanotubes for preventing RO biofouling. Separation and Purification Technology, 2015, 148, 57-67. | 7.9 | 22 |
| 327 | Enhanced conductivity of monovalent cation exchange membranes with chitosan/PANI composite modification. RSC Advances, 2015, 5, 90969-90975. | 3.6 | 22 |
| 328 | Calibration and analysis of a direct contact membrane distillation model using Monte Carlo filtering. Journal of Membrane Science, 2016, 515, 63-78. | 8.2 | 22 |
| 329 | Experimental evaluation of sorptive removal of fluoride from drinking water using natural and brewery waste diatomite. Chemical Engineering Research and Design, 2019, 128, 95-106. | 5.6 | 22 |
| 330 | Constructed wetlands as nature based solutions in removing organic pollutants from wastewater under irregular flow conditions in a tropical climate. Ecohydrology and Hydrobiology, 2020, 20, 38-47. | 2.3 | 22 |
| 331 | Efficient membrane-based affinity separations for chemical applications: A review. Chemical Engineering and Processing: Process Intensification, 2021, 169, 108613. | 3.6 | 22 |
| 332 | Nanofiltration membranes enhanced with TiO ₂ nanoparticles: a comprehensive study. Desalination and Water Treatment, 2011, 34, 179-183. | 1.0 | 21 |
| 333 | Potential applications of abandoned aromatic polyamide reverse osmosis membrane by hypochlorite degradation. RSC Advances, 2016, 6, 12263-12271. | 3.6 | 21 |
| 334 | Recovery of Na2CO3 and Na2SO4 from mixed solutions by membrane crystallization. Chemical Engineering Research and Design, 2016, 106, 315-326. | 5.6 | 21 |
| 335 | Fabrication of novel electrodialysis heterogeneous ion exchange membranes by incorporating PANI/GO functionalized composite nanoplates. Ionics, 2018, 24, 1789-1801. | 2.4 | 21 |
| 336 | Valorization of coffee byproducts for bioethanol production using lignocellulosic yeast fermentation and pervaporation. International Journal of Environmental Science and Technology, 2018, 15, 821-832. | 3.5 | 21 |
| 337 | Preparation, characterization and scaling propensity study of a dopamine incorporated RO/FO TFC membrane for pesticide removal. Journal of Membrane Science, 2020, 612, 118458. | 8.2 | 21 |
| 338 | Heteroepitaxial growth of vertically orientated zeolitic imidazolate framework‣ (Co/Znâ€ZIF‣) molecular sieve membranes. AICHE Journal, 2020, 66, e16935. | 3.6 | 21 |
| 339 | Controllable synthesis of a chemically stable molecular sieving nanofilm for highly efficient organic solvent nanofiltration. Chemical Science, 2020, 11, 4263-4271. | 7.4 | 21 |
| 340 | Separation of methanolâ€ŧetrahydrofuran mixtures by heteroazeotropic distillation and pervaporation. AICHE Journal, 2014, 60, 2584-2595. | 3.6 | 20 |
| 341 | Intensified Distillationâ€Based Separation Processes: Recent Developments and Perspectives. Chemical Engineering and Technology, 2016, 39, 2183-2195. | 1.5 | 20 |
| 342 | Retrofitting of extractive distillation columns with high flux, low separation factor membranes: A way to reduce the energy demand?. Chemical Engineering Research and Design, 2016, 109, 127-140. | 5.6 | 20 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 343 | Alcohol and Alkane Organic Extraction Using Pervaporation Process. Macromolecular Symposia, 2019, 386, 1800247. | 0.7 | 20 |
| 344 | Fabrication of mixed matrix anion exchange membrane decorated with polyaniline nanoparticles to chloride and sulfate ions removal from water. Ionics, 2019, 25, 6135-6145. | 2.4 | 20 |
| 345 | Mussel-Inspired Surface Functionalization of AEM for Simultaneously Improved Monovalent Anion Selectivity and Antibacterial Property. Membranes, 2019, 9, 36. | 3.0 | 20 |
| 346 | Pellet reactor pretreatment: A feasible method to reduce scaling in bipolar membrane electrodialysis. Journal of Colloid and Interface Science, 2013, 401, 107-115. | 9.4 | 19 |
| 347 | Challenges to surface water quality in mid-sized African cities: conclusions from Awetu-Kito Rivers in Jimma, south-west Ethiopia. Water and Environment Journal, 2014, 28, 173-182. | 2.2 | 19 |
| 348 | Conceptual model-based optimization and environmental evaluation of waste solvent technologies: Distillation/incineration versus distillation/pervaporation. Separation and Purification Technology, 2016, 158, 238-249. | 7.9 | 19 |
| 349 | Development of polyethersulfone phaseâ€inversion membranes for membrane distillation using oleophobic coatings. Journal of Applied Polymer Science, 2017, 134, 45516. | 2.6 | 19 |
| 350 | Mussel-Inspired Monovalent Selective Cation Exchange Membranes Containing Hydrophilic MIL53(Al) Framework for Enhanced Ion Flux. Industrial & Engineering Chemistry Research, 2018, 57, 6275-6283. | 3.7 | 19 |
| 351 | Preparation of N,N,N-trimethyl-1-adamantylammonium hydroxide with high purity via bipolar membrane electrodialysis. Separation and Purification Technology, 2018, 205, 241-250. | 7.9 | 19 |
| 352 | Plasticization suppression and CO2 separation enhancement of Matrimid through homogeneous blending with a new high performance polymer. Journal of Membrane Science, 2019, 574, 318-324. | 8.2 | 19 |
| 353 | Polyarylene thioether sulfone/sulfonated sulfone nanofiltration membrane with enhancement of rejection and permeability via molecular designâ~†. Journal of Membrane Science, 2020, 608, 118241. | 8.2 | 19 |
| 354 | Thin-Film Composite Membrane Prepared by Interfacial Polymerization on the Integrated ZIF-L Nanosheets Interface for Pervaporation Dehydration. ACS Applied Materials & Interfaces, 2021, 13, 39819-39830. | 8.0 | 19 |
| 355 | Water defluoridation by Fe(III)-loaded sisal fibre: Understanding the influence of the preparation pathways on biosorbents' defluoridation properties. Journal of Hazardous Materials, 2019, 362, 99-106. | 12.4 | 18 |
| 356 | Anti-drying nanofiltration (NF) membranes constructed on PTFE microfiltration (MF) substrate via novel interfacial polymerization. Journal of Membrane Science, 2021, 638, 119721. | 8.2 | 18 |
| 357 | Effective and sustainable adsorbent materials for oil spill cleanup based on a multistage desalination process. Journal of Environmental Management, 2021, 299, 113652. | 7.8 | 18 |
| 358 | Development of high performance pervaporation desalination membranes: A brief review. Chemical Engineering Research and Design, 2022, 159, 1092-1104. | 5.6 | 18 |
| 359 | How a Microfiltration Pretreatment Affects the Performance in Nanofiltration. Separation Science and Technology, 2005, 39, 1443-1459. | 2.5 | 17 |
| 360 | Synthesis of quaternary ammonium hydroxide from its halide salt by bipolar membrane electrodialysis (<scp>BMED</scp>): effect of molecular structure of ammonium compounds on the process performance. Journal of Chemical Technology and Biotechnology, 2014, 89, 841-850. | 3.2 | 17 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 361 | Screening of pervaporation membranes with the aid of conceptual models: An application to bioethanol production. Separation and Purification Technology, 2015, 146, 326-341. | 7.9 | 17 |
| 362 | Fabrication and characterization of novel antimicrobial thin film nano omposite membranes based on copper nanoparticles. Journal of Chemical Technology and Biotechnology, 2018, 93, 2737-2747. | 3.2 | 17 |
| 363 | Preparation of PSEBS membranes bearing (S)-(â^')-methylbenzylamine as chiral selector. European Polymer Journal, 2020, 122, 109381. | 5.4 | 17 |
| 364 | Esterification of sugarcane bagasse by citric acid for Pb2+ adsorption: effect of different chemical pretreatment methods. Environmental Science and Pollution Research, 2021, 28, 11869-11881. | 5.3 | 17 |
| 365 | Preliminary Studies on Membrane Filtration for the Production of Potable Water: A Case of Tshaanda Rural Village in South Africa. PLoS ONE, 2014, 9, e105057. | 2.5 | 17 |
| 366 | Ultrathin polyamide membranes enabled by spin-coating assisted interfacial polymerization for high-flux nanofiltration. Separation and Purification Technology, 2022, 288, 120648. | 7.9 | 17 |
| 367 | Investigation of fluoride and silica removal from semiconductor wastewaters with a clean coagulation-ultrafiltration process. Chemical Engineering Journal, 2022, 438, 135562. | 12.7 | 17 |
| 368 | Exergy as a tool for measuring process intensification in chemical engineering. Journal of Chemical Technology and Biotechnology, 2013, 88, 1951-1958. | 3.2 | 16 |
| 369 | Solubility and absorption rate enhancement of CO ₂ in K ₂ CO ₃ . Separation Science and Technology, 2016, 51, 327-338. | 2.5 | 16 |
| 370 | Synthesis and transport of impurities in electrodialysis metathesis: Production of choline dihydrogen phosphate. Journal of Membrane Science, 2017, 541, 550-557. | 8.2 | 16 |
| 371 | Enhanced Separation Performance for CO ₂ Gas of Mixed-Matrix Membranes Incorporated with TiO ₂ /Graphene Oxide: Synergistic Effect of Graphene Oxide and Small TiO ₂ Particles on Gas Permeability of Membranes. Industrial & amp; Engineering Chemistry Research, 2017, 56, 8981-8990. | 3.7 | 16 |
| 372 | Atmospheric plasma coatings for membrane distillation. Journal of Membrane Science, 2018, 554, 175-183. | 8.2 | 16 |
| 373 | Electrochemical characterization of mixed matrix electrodialysis cation exchange membrane incorporated with carbon nanofibers for desalination. Ionics, 2019, 25, 5595-5610. | 2.4 | 16 |
| 374 | Top-Down Polyelectrolytes for Membrane-Based Post-Combustion CO2 Capture. Molecules, 2020, 25, 323. | 3.8 | 16 |
| 375 | Effect of Fe2+ ions on gypsum precipitation during bulk crystallization of reverse osmosis concentrates. Chemosphere, 2021, 263, 127866. | 8.2 | 16 |
| 376 | Recovery of Cr(VI) and removal of cationic metals from chromium slag using a modified bipolar membrane system. Journal of Membrane Science, 2021, 639, 119772. | 8.2 | 16 |
| 377 | Removal of organic pollutants in coking wastewater based on coal-based adsorbents: A pilot-scale study of static adsorption and flotation. Journal of Environmental Chemical Engineering, 2021, 9, 106844. | 6.7 | 16 |
| 378 | Hydrogel supported positively charged ultrathin polyamide layer with antimicrobial properties via Ag modification. Separation and Purification Technology, 2022, 284, 120295. | 7.9 | 16 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 379 | Pervaporation Membrane Reactors. , 2010, , 135-163. | | 15 |
| 380 | Separation of ethyl acetate–isooctane mixtures by pervaporation and pervaporation-based hybrid methods. Chemical Engineering Journal, 2012, 210, 252-262. | 12.7 | 15 |
| 381 | Evaluation of peroxide based advanced oxidation processes (AOPs) for the degradation of ibuprofen in water. Desalination and Water Treatment, 2012, 50, 189-197. | 1.0 | 15 |
| 382 | A cascaded pervaporation process for dehydration of acetic acid. Chemical Engineering Science, 2014, 105, 208-212. | 3.8 | 15 |
| 383 | Production of Aldonic Acids by Bipolar Membrane Electrodialysis. Industrial & Engineering Chemistry Research, 2017, 56, 7824-7829. | 3.7 | 15 |
| 384 | Preparation of an Asymmetric Membrane from Sugarcane Bagasse Using DMSO as Green Solvent. Applied Sciences (Switzerland), 2019, 9, 3347. | 2.5 | 15 |
| 385 | Tailoring Charged Nanofiltration Membrane Based on Non-Aromatic Tris(3-aminopropyl)amine for Effective Water Softening. Membranes, 2020, 10, 251. | 3.0 | 15 |
| 386 | The challenges of reverse osmosis desalination: solutions in Jordan. Water International, 2020, 45, 112-124. | 1.0 | 15 |
| 387 | A process combination of ion exchange and electrodialysis for the recovery and purification of hydroxy acids from secondary sources. Separation and Purification Technology, 2020, 240, 116642. | 7.9 | 15 |
| 388 | Industrial process water recycling: Principles and examples. Environmental Progress, 2005, 24, 417-425. | 0.7 | 14 |
| 389 | Clean post-processing of 2-amino-1-propanol sulphate by bipolar membrane electrodialysis for industrial processing of 2-amino-1-propanol. Chemical Engineering and Processing: Process Intensification, 2013, 72, 137-143. | 3.6 | 14 |
| 390 | Activity-derived model for water and salt transport in reverse osmosis membranes: A combination of film theory and electrolyte theory. Desalination, 2019, 469, 114094. | 8.2 | 14 |
| 391 | Phosphorus recovery as calcium phosphate by a pellet reactor pre-treating domestic wastewater before entering a constructed wetland. International Journal of Environmental Science and Technology, 2019, 16, 3851-3860. | 3.5 | 14 |
| 392 | Photocatalysis Using UV-A and UV-C Light Sources for Advanced Oxidation of Anti-Cancer Drugs Spiked in Laboratory-Grade Water and Synthetic Urine. Industrial & Engineering Chemistry Research, 2020, 59, 647-653. | 3.7 | 14 |
| 393 | An integrated separation process for recovery and enantioseparation of amlodipine from wastewater: Supported liquid membrane-aqueous/organic phase crystallization. Separation and Purification Technology, 2020, 248, 117121. | 7.9 | 14 |
| 394 | Synergistic effects of the combined use of ozone and sodium percarbonate for the oxidative degradation of dichlorvos. Journal of Water Process Engineering, 2021, 39, 101721. | 5.6 | 14 |
| 395 | Design and fabrication of nanofiltration membranes based on intrinsic porous monomer resorcin[4]arene. Desalination, 2021, 500, 114861. | 8.2 | 14 |
| 396 | Arsenic and cation metal removal from copper slag using a bipolar membrane electrodialysis system. Journal of Cleaner Production, 2022, 338, 130662. | 9.3 | 14 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 397 | Effect of Climate Change on Reliability of Rainwater Harvesting Systems for Kabarole District, Uganda. Water (Switzerland), 2018, 10, 71. | 2.7 | 13 |
| 398 | Effect of pressure and temperature on solvent transport across nanofiltration and reverse osmosis membranes: An activity-derived transport model. Desalination, 2021, 501, 114905. | 8.2 | 13 |
| 399 | In situ growth of multifunctional porous organic polymer nanofilms with molecular sieving and catalytic abilities. Chemical Engineering Journal, 2022, 427, 130978. | 12.7 | 13 |
| 400 | Advances in electrodialysis for water treatment. , 2015, , 185-203. | | 12 |
| 401 | Permeability of Small Alcohols through Commercial Ion-Exchange Membranes Used in Electrodialysis. Industrial & Engineering Chemistry Research, 2016, 55, 8215-8224. | 3.7 | 12 |
| 402 | Modeling of a liquid membrane in Taylor flow integrated with lactic acid fermentation. Chemical Engineering and Processing: Process Intensification, 2019, 144, 107643. | 3.6 | 12 |
| 403 | Separation of bioâ€based chemicals using pervaporation. Journal of Chemical Technology and Biotechnology, 2020, 95, 2311-2334. | 3.2 | 12 |
| 404 | CFD and statistical approach to optimize the average air velocity and air volume fraction in an inert-particles spouted-bed reactor (IPSBR) system. Heliyon, 2021, 7, e06369. | 3.2 | 12 |
| 405 | The use of nanofiltration for the removal of pesticides from groundwater: an evaluation. Water Science and Technology: Water Supply, 2001, 1, 99-106. | 2.1 | 11 |
| 406 | Investigation of nanopores in nanofiltration membranes using slow positron beam techniques. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3804-3809. | 0.8 | 11 |
| 407 | Pesticides Removal by Filtration over Cactus Pear Leaves: A Cheap and Natural Method for Smallâ€5cale Water Purification in Semiâ€Arid Regions. Clean - Soil, Air, Water, 2013, 41, 235-243. | 1.1 | 11 |
| 408 | Role of Cell Appendages in Initial Attachment and Stability of <i>E. coli</i> on Silica Monitored by Nondestructive TIRF Microscopy. Langmuir, 2017, 33, 4066-4075. | 3.5 | 11 |
| 409 | Study of overall mass transfer coefficients in a liquid membrane in Taylor flow regime: Calculation and correlation. Chemical Engineering and Processing: Process Intensification, 2018, 134, 20-27. | 3.6 | 11 |
| 410 | Passive permeability assay of doxorubicin through model cell membranes under cancerous and normal membrane potential conditions. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 146, 133-142. | 4.3 | 11 |
| 411 | Synthesis of Cross-linked Carboxyl Modified Polyvinyl Alcohol and its Application in Selective Adsorption Separation of Cu(II) from Cd(II) and Ni(II). Journal of Polymers and the Environment, 2021, 29, 28-37. | 5.0 | 11 |
| 412 | Cellulose triacetate/ <scp>LUDOX‣iO₂</scp> nanocomposite for synthesis of pervaporation desalination membranes. Journal of Applied Polymer Science, 2021, 138, 50000. | 2.6 | 11 |
| 413 | Performance of a Slurry Photocatalytic Membrane Reactor for the Treatment of Real Secondary Wastewater Effluent Polluted by Anticancer Drugs. Industrial & Engineering Chemistry Research, 2021, 60, 2223-2231. | 3.7 | 11 |
| 414 | A novel concept of hierarchical cation exchange membrane fabricated from commodity precursors through an easily scalable process. Journal of Membrane Science, 2021, 636, 119594. | 8.2 | 11 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 415 | Recovery of phosphate and ammonium nitrogen as struvite from aqueous solutions using a magnesium–air cell system. Science of the Total Environment, 2022, 819, 152006. | 8.0 | 11 |
| 416 | Ionic Control of Functional Zeolitic Imidazolate Framework-Based Membrane for Tailoring Selectivity toward Target Ions. ACS Applied Materials & Interfaces, 2022, 14, 11038-11049. | 8.0 | 11 |
| 417 | Conceptual model-based design and environmental evaluation of waste solvent technologies: Application to the separation of the mixture acetone-water. Separation Science and Technology, 2018, 53, 1791-1810. | 2.5 | 10 |
| 418 | High-Performance Thin-Film-Nanocomposite Cation Exchange Membranes Containing Hydrophobic Zeolitic Imidazolate Framework for Monovalent Selectivity. Applied Sciences (Switzerland), 2018, 8, 759. | 2.5 | 10 |
| 419 | Desalination and heavy metal ion removal from water by new ion exchange membrane modified by synthesized NiFe2O4/HAMPS nanocomposite. Ionics, 2019, 25, 3847-3857. | 2.4 | 10 |
| 420 | Efficient removal of dyes from aqueous solution: the potential of cellulose nanocrystals to enhance PES nanocomposite membranes. Cellulose, 2020, 27, 5255-5266. | 4.9 | 10 |
| 421 | Removal of Heatâ€Stable Salts from Lean Amine of a Gas Refinery via Electrodialysis. Chemical Engineering and Technology, 2021, 44, 318-328. | 1.5 | 10 |
| 422 | Effect of the bio-inspired modification of low-cost membranes with TiO2:ZnO as microbial fuel cell membranes. Chemosphere, 2022, 291, 132840. | 8.2 | 10 |
| 423 | Addition of Adsorbents to Nanofiltration Membrane to Obtain Complete Pesticide Removal. Water, Air, and Soil Pollution, 2015, 226, 1. | 2.4 | 9 |
| 424 | Functionalization of a Hydrophilic Commercial Membrane Using Inorganic-Organic Polymers Coatings for Membrane Distillation. Applied Sciences (Switzerland), 2017, 7, 637. | 2.5 | 9 |
| 425 | Tuning intermolecular pores of resorcin[4]arene-based membranes for enhanced nanofiltration performance. Journal of Membrane Science, 2020, 610, 118282. | 8.2 | 9 |
| 426 | Novel Chiral Drug Recovery and Enantioseparation Method: Hollow Fiber Membrane Extraction and In Situ Coupling of Back-Extraction with Crystallization. Industrial & Engineering Chemistry Research, 2020, 59, 13735-13743. | 3.7 | 9 |
| 427 | A New Process for the Recovery of Ammonia from Ammoniated High-Salinity Brine. Sustainability, 2021, 13, 10014. | 3.2 | 9 |
| 428 | Electrochemical degradation of antivirus drug lamivudine formulation: photoelectrocoagulation, peroxi-electrocoagulation, and peroxi-photoelectrocoagulation processes. Journal of Applied Electrochemistry, 2021, 51, 607-618. | 2.9 | 9 |
| 429 | Membrane bioreactors for hospital wastewater treatment: recent advancements in membranes and processes. Frontiers of Chemical Science and Engineering, 2022, 16, 634-660. | 4.4 | 9 |
| 430 | Collagen Fibril-Assembled Skin-Simulated Membrane for Continuous Molecular Separation. ACS Applied Materials & Interfaces, 2022, 14, 7358-7368. | 8.0 | 9 |
| 431 | Impact of wastewater discharge in Jimma, Ethiopia, and remediation possibilities. Desalination, 2009, 248, 603-609. | 8.2 | 8 |
| 432 | Ozonation and perozonation of humic acids in nanofiltration concentrates. Desalination and Water Treatment, 2009, 6, 217-221. | 1.0 | 8 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 433 | Eightfold increased membrane flux of NF 270 by O ₃ oxidation of natural humic acids without deteriorated permeate quality. Journal of Chemical Technology and Biotechnology, 2010, 85, 1480-1488. | 3.2 | 8 |
| 434 | Wastewater management in Ethiopian higher learning institutions: functionality, sustainability and policy context. Journal of Environmental Planning and Management, 2014, 57, 369-383. | 4.5 | 8 |
| 435 | Synthesis and Characterization of a Novel Surfactant-Enhanced Chlorinated-Polypropylene Heterogeneous Anion Exchange Membrane. Separation Science and Technology, 2014, 49, 1146-1155. | 2.5 | 8 |
| 436 | Deposition of toxic metal particles on rough nanofiltration membranes. Korean Journal of Chemical Engineering, 2014, 31, 1413-1424. | 2.7 | 8 |
| 437 | Overcoming any configuration limitation: an alternative operating mode for pervaporation and vapour permeation. Journal of Chemical Technology and Biotechnology, 2016, 91, 948-957. | 3.2 | 8 |
| 438 | A Pilot Study of the Sludge Recycling Enhanced Coagulation–Ultrafiltration Process for Drinking Water: The Effects of Sludge Recycling Ratio and Coagulation Stirring Strategy. Water (Switzerland), 2017, 9, 183. | 2.7 | 8 |
| 439 | lon-exchange membrane systems—Electrodialysis and other electromembrane processes. , 2018, , 251-300. | | 8 |
| 440 | Removal of tramadol hydrochloride, an emerging pollutant, from aqueous solution using gamma irradiation combined by nanofiltration. Chemical Engineering Research and Design, 2022, 159, 442-451. | 5.6 | 8 |
| 441 | Measurement of activity coefficients of mixtures by head-space gas chromatography: General procedure. Journal of Chromatography A, 2013, 1302, 111-117. | 3.7 | 7 |
| 442 | Pervaporation modeling. , 2015, , 87-106. | | 7 |
| 443 | Improvements in heterogeneous cation exchange membranes by incorporation of Fe2O3 nanoparticles. Ionics, 2019, 25, 4953-4968. | 2.4 | 7 |
| 444 | Improving electrochemical properties of cation exchange membranes by using activated carbon-co-chitosan composite nanoparticles in water deionization. Ionics, 2019, 25, 1199-1214. | 2.4 | 7 |
| 445 | Development of a new method and device for chiral drug enrichment and enantioseparation: Multiple-phase extraction and in situ coupling of crystallization. Separation and Purification Technology, 2021, 257, 117884. | 7.9 | 7 |
| 446 | Hydrophobic polydimethylsiloxane thin-film composite membranes for the efficient pervaporative desalination of seawater and brines. Separation and Purification Technology, 2022, 280, 119819. | 7.9 | 7 |
| 447 | Techno-economic assessment of pervaporation desalination of hypersaline water. Desalination, 2022, 527, 115538. | 8.2 | 7 |
| 448 | Vanadium recovery by electrodialysis using polymer inclusion membranes. Journal of Hazardous Materials, 2022, 436, 129315. | 12.4 | 7 |
| 449 | Analysis of the Development of Membrane Technology for Gas Separation and CO ₂ Capture. ACS Symposium Series, 2011, , 7-26. | 0.5 | 6 |
| 450 | Mass Transport through Nanostructured Membranes: Towards a Predictive Tool. Membranes, 2016, 6, 49. | 3.0 | 6 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 451 | Mass transfer approach and the designing of horizontal subsurface flow constructed wetland systems treating waste stabilisation pond effluent. Water Science and Technology, 2018, 78, 2639-2646. | 2.5 | 6 |
| 452 | Numerical Modelling Assisted Design of a Compact Ultrafiltration (UF) Flat Sheet Membrane Module. Membranes, 2021, 11, 54. | 3.0 | 6 |
| 453 | Comprehensive Optimization of the Dispersion of Mixing Particles in an Inert-Particle Spouted-Bed Reactor (IPSBR) System. Processes, 2021, 9, 1921. | 2.8 | 6 |
| 454 | Simultaneous Enzymatic Cellulose Hydrolysis and Product Separation in a Radial-Flow Membrane Bioreactor. Molecules, 2022, 27, 288. | 3.8 | 6 |
| 455 | Recovery of trivalent and hexavalent chromium from chromium slag using a bipolar membrane system combined with oxidation. Journal of Colloid and Interface Science, 2022, 619, 280-288. | 9.4 | 6 |
| 456 | A versatile chemistry platform for the fabrication of cost-effective hierarchical cation and anion exchange membranes. Desalination, 2022, 535, 115794. | 8.2 | 6 |
| 457 | Selective composite cation-exchange membrane based on S-PVDF. Desalination and Water Treatment, 0, , 1-7. | 1.0 | 5 |
| 458 | A design of composite hollow fiber membranes with tunable performance and reinforced mechanical strength. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 5 |
| 459 | Chargeâ€assisted ultrafiltration membranes for monovalent ions separation in electrodialysis. Journal of Applied Polymer Science, 2018, 135, 45692. | 2.6 | 5 |
| 460 | Enhancing the electrochemical and antibacterial characteristics of cation exchange membrane by using synthesized (GO-co-Ag) nanoplates. Ionics, 2019, 25, 6123-6133. | 2.4 | 5 |
| 461 | New approach to adapting electrochemical properties of cation-exchange membrane by incorporating tris(8-hydroxyquinolinato)aluminum nanoparticles. Ionics, 2019, 25, 1147-1156. | 2.4 | 5 |
| 462 | Potential Pitfalls in Membrane Fouling Evaluation: Merits of Data Representation as Resistance Instead of Flux Decline in Membrane Filtration. Membranes, 2021, 11, 460. | 3.0 | 5 |
| 463 | Removal of Phosphate from the Healthcare Wastewater Through Peroxi-Photoelectrocoagulation Process: Effect of Process Parameters. International Journal of Environmental Research, 2022, 16, 1. | 2.3 | 5 |
| 464 | Determination of activities in membrane processes: The UNIQUAC model expressed in mole and mass fractions. AICHE Journal, 2011, 57, 1889-1896. | 3.6 | 4 |
| 465 | Considerations on the Use of Nanofiltration for Solvent Purification in the Oil Industry. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 959-960. | 1.9 | 4 |
| 466 | Novel natural and biomimetic ligands to enhance selectivity of membrane processes for soluteâ€solute separations: beyond nature's logistic legacy. Journal of Chemical Technology and Biotechnology, 2014, 89, 354-371. | 3.2 | 4 |
| 467 | Novel hybrid membranes by incorporating SiO ₂ nanoparticles using in situ microemulsion polymerization: preparation, characterization and enhancement in the performance for CO ₂ /N ₂ . RSC Advances, 2015, 5, 65084-65093. | 3.6 | 4 |
| 468 | Surfactant-based modification of sodic-Algerian illite clay for the preparation of polymeric membranes: application for separation of iron and zinc ions from aqueous solutions. Polymer Bulletin, 2019, 76, 3659-3676. | 3.3 | 4 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 469 | Wastewater Treatment by Renewable Energy Driven Membrane Processes. , 2019, , 1-19. | | 4 |
| 470 | Combined Adsorption and Photocatalytic Degradation for Ciprofloxacin Removal Using Sugarcane Bagasse/N,S-TiO2 Powder Composite. Water (Switzerland), 2021, 13, 2300. | 2.7 | 4 |
| 471 | Formation and electrical characterization of black lipid membranes in porous filter materials. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700104. | 1.8 | 4 |
| 472 | Performance Comparison of Chemically Modified Sugarcane Bagasse for Removing Cd(II) in Water Environment. Journal of Renewable Materials, 2019, 7, 415-428. | 2.2 | 4 |
| 473 | Reliability and economic assessment of rainwater harvesting systems for dairy production. Resources, Conservation & Recycling Advances, 2022, 14, 200079. | 2.5 | 4 |
| 474 | Graphene Oxide: Tunable Nanoscale Interlayer of Graphene with Symmetrical Polyelectrolyte Multilayer Architecture for Lithium Extraction (Adv. Mater. Interfaces 6/2018). Advanced Materials Interfaces, 2018, 5, 1870025. | 3.7 | 3 |
| 475 | The viability of artificial surface treatments as a mechanism for domestic rain water harvesting. Physics and Chemistry of the Earth, 2018, 107, 8-18. | 2.9 | 3 |
| 476 | Plastic waste as a valuable resource: strategy to remove heavy metals from wastewater in bench scale application. Environmental Science and Pollution Research, 2022, 29, 42074-42089. | 5.3 | 3 |
| 477 | A Techno-economic Assessment of a Biocatalytic Chiral Amine Production Process Integrated with <i>In Situ</i> Membrane Extraction. Organic Process Research and Development, 2022, 26, 2052-2066. | 2.7 | 3 |
| 478 | Influence of relative air humidity and casting time on the permeation properties of PSf nanofiltration membranes. Desalination and Water Treatment, 2016, 57, 13924-13929. | 1.0 | 2 |
| 479 | Use of porous volcanic rocks for the adsorptive removal of copper. Water and Environment Journal, 2017, 31, 194-201. | 2.2 | 2 |
| 480 | Adapting the release characteristics of aluminum phosphide from membrane-coated rice tablets by using activated carbon nanoparticles. Journal of Industrial and Engineering Chemistry, 2018, 58, 202-207. | 5.8 | 2 |
| 481 | CuFe2O4 magnetic nanoparticles to improve the ionic transfer properties of electrodialysis heterogeneous cation exchange membrane. Ionics, 2019, 25, 1725-1734. | 2.4 | 2 |
| 482 | Nanostructured Membranes for Water Purification. Engineering Materials, 2019, , 243-274. | 0.6 | 2 |
| 483 | Comparison of Membrane Performance of PDMS-Based Membranes during Ethanol/Water Pervaporation and Fermentation Broth Pervaporation. ACS Symposium Series, 2011, , 51-59. | 0.5 | 1 |
| 484 | Comparison of informal rainwater harvesting systems to conventional water sources in terms of microbiological water quality. Water Resources and Rural Development, 2017, 10, 45-57. | 1.1 | 1 |
| 485 | The world in panic. Journal of Chemical Technology and Biotechnology, 2020, 95, 2051-2051. | 3.2 | 1 |
| 486 | Prospects of nanocomposite membranes for water treatment by electrodriven membrane processes. , | | 1 |

486 2020, , 321-354.

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 487 | CLOSING THE MATERIALS CYCLE IN PYROMETALLURGICAL PRODUCTION OF LEAD FROM WASTE FRACTIONS: HYDROMETALLURGICAL PURIFICATION OF IRON CONTAINING WASTE IN VIEW OF RECYCLING. Environmental Engineering and Management Journal, 2018, 17, 381-390. | 0.6 | 1 |
| 488 | A prebiotic chemistry inspired one-step functionalization of zwitterionic nanofiltration membranes for efficient molecular separation. , 2022, 2, 100013. | | 1 |
| 489 | Comparative study on the effect of poly (vinylpyrrolidone) and polyethylene glycol as additives on polysulfone synthesized ultrafiltration membranes. Journal of Chemical Technology and Biotechnology, 0, , . | 3.2 | 1 |
| 490 | 3.6 Pervaporation Membrane Reactors. , 2017, , 139-170. | | 0 |
| 491 | Editorial of SI: Filtering a better future. Separation and Purification Technology, 2018, 198, 1-2. | 7.9 | 0 |
| 492 | Extractant Forced-Circulation Three-Phase Extraction for the Preconcentration of Parts-per-Billion (Ppb)-Level Cadmium(II) from Natural Waters. Analytical Letters, 2021, 54, 1561-1577. | 1.8 | 0 |
| 493 | Review of Thermal- and Membrane-based Water Desalination Technologies and Integration with Alternative Energy Sources. Materials and Energy, 2021, , 1-40. | 0.1 | Ο |
| 494 | Fabrication and Characterization of Metakaolin Based Flat Sheet Membrane for Membrane Distillation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 651-661. | 0.3 | 0 |
| 495 | Flat sheet metakaolin ceramic membrane for water desalination via direct contact membrane distillation. Journal of Water Reuse and Desalination, 2022, 12, 131-156. | 2.3 | 0 |
| 496 | Intensification of Middle- and High-Molecular-Weight Toxins Removal in Dialysis Process. ASAIO Journal, 2023, 69, 231-238. | 1.6 | 0 |