List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Soluble and Highly Conductive Ionomer for Highâ€Performance Hydroxide Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2009, 48, 6499-6502. | 7.2 | 541 |
| 2 | Simultaneous enhancement of mechanical properties and CO2 selectivity of ZIF-8 mixed matrix membranes: Interfacial toughening effect of ionic liquid. Journal of Membrane Science, 2016, 511, 130-142. | 4.1 | 242 |
| 3 | Progress and prospects of next-generation redox flow batteries. Energy Storage Materials, 2018, 15, 324-350. | 9.5 | 239 |
| 4 | Imidazole functionalized graphene oxide/PEBAX mixed matrix membranes for efficient CO2 capture. Separation and Purification Technology, 2016, 166, 171-180. | 3.9 | 150 |
| 5 | Atomically Dispersed Ni/Cu Dual Sites for Boosting the CO ₂ Reduction Reaction. ACS Catalysis, 2021, 11, 12673-12681. | 5.5 | 120 |
| 6 | Differences in water sorption and proton conductivity between Nafion and SPEEK. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1437-1445. | 2.4 | 117 |
| 7 | Quaternized poly(ether ether ketone) hydroxide exchange membranes for fuel cells. Journal of Membrane Science, 2011, 375, 204-211. | 4.1 | 115 |
| 8 | Imidazolium-functionalized poly(ether ether ketone) as membrane and electrode ionomer for low-temperature alkaline membrane direct methanol fuel cell. Journal of Power Sources, 2014, 250, 90-97. | 4.0 | 112 |
| 9 | Highly Conducting Anion-Exchange Membranes Based on Cross-Linked Poly(norbornene): Ring Opening Metathesis Polymerization. ACS Applied Energy Materials, 2019, 2, 2458-2468. | 2.5 | 109 |
| 10 | Imidazolium-functionalized polysulfone hydroxide exchange membranes for potential applications in alkaline membrane direct alcohol fuel cells. International Journal of Hydrogen Energy, 2012, 37, 5216-5224. | 3.8 | 102 |
| 11 | A novel imidazolium-based amphoteric membrane for high-performance vanadium redox flow battery. Journal of Membrane Science, 2017, 544, 98-107. | 4.1 | 96 |
| 12 | Strengthening power generation efficiency utilizing liquefied natural gas cold energy by a novel two-stage condensation Rankine cycle (TCRC) system. Energy Conversion and Management, 2017, 143, 312-325. | 4.4 | 95 |
| 13 | Triple-Layered Carbon-SiO ₂ Composite Membrane for High Energy Density and Long Cycling Li–S Batteries. ACS Nano, 2019, 13, 5900-5909. | 7.3 | 93 |
| 14 | SPEEK proton exchange membranes modified with silica sulfuric acid nanoparticles. International Journal of Hydrogen Energy, 2012, 37, 11853-11861. | 3.8 | 91 |
| 15 | Novel Triple Tertiary Amine Polymer-Based Hydrogen Bond Network Inducing Highly Efficient Proton-Conducting Channels of Amphoteric Membranes for High-Performance Vanadium Redox Flow Battery. ACS Applied Materials & Interfaces, 2019, 11, 5003-5014. | 4.0 | 91 |
| 16 | Construction of atomically dispersed Cu-N4 sites via engineered coordination environment for high-efficient CO2 electroreduction. Chemical Engineering Journal, 2021, 407, 126842. | 6.6 | 91 |
| 17 | Design of pendent imidazolium side chain with flexible ether-containing spacer for alkaline anion exchange membrane. Journal of Membrane Science, 2017, 523, 216-224. | 4.1 | 88 |
| 18 | Polybenzimidazole membranes with nanophase-separated structure induced by non-ionic hydrophilic side chains for vanadium flow batteries. Journal of Materials Chemistry A, 2018, 6, 3895-3905. | 5.2 | 88 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Preparation and characteristics of crosslinked sulfonated poly(phthalazinone ether sulfone ketone) with poly(vinyl alcohol) for proton exchange membrane. Journal of Membrane Science, 2008, 312, 48-58. | 4.1 | 84 |
| 20 | Multishelled Nickel–Cobalt Oxide Hollow Microspheres with Optimized Compositions and Shell Porosity for High-Performance Pseudocapacitors. ACS Applied Materials & Interfaces, 2016, 8, 17276-17283. | 4.0 | 82 |
| 21 | Amphiprotic Side-Chain Functionalization Constructing Highly Proton/Vanadium-Selective Transport Channels for High-Performance Membranes in Vanadium Redox Flow Batteries. ACS Applied Materials & Interfaces, 2018, 10, 32247-32255. | 4.0 | 80 |
| 22 | Pulverizing Fe ₂ O ₃ Nanoparticles for Developing Fe ₃ C/Nâ€Codoped Carbon Nanoboxes with Multiple Polysulfide Anchoring and Converting Activity in Li‧ Batteries. Advanced Functional Materials, 2021, 31, 2011249. | 7.8 | 79 |
| 23 | Well-defined Fe–Cu diatomic sites for efficient catalysis of CO ₂ electroreduction. Journal of Materials Chemistry A, 2021, 9, 23817-23827. | 5.2 | 77 |
| 24 | Hierarchically Porous C/Fe ₃ C Membranes with Fast Ion-Transporting Channels and Polysulfide-Trapping Networks for High-Areal-Capacity Li–S Batteries. Nano Letters, 2020, 20, 701-708. | 4.5 | 72 |
| 25 | Co ₃ O ₄ Nanosheets Preferentially Growing (220) Facet with a Large Amount of Surface Chemisorbed Oxygen for Efficient Oxidation of Elemental Mercury from Flue Gas. Environmental Science & Technology, 2020, 54, 8601-8611. | 4.6 | 72 |
| 26 | Enhancement of hydroxide conductivity by the di-quaternization strategy for poly(ether ether ketone) based anion exchange membranes. Journal of Materials Chemistry A, 2014, 2, 12222. | 5.2 | 71 |
| 27 | Hydrophilic side chain assisting continuous ion-conducting channels for anion exchange membranes. Journal of Membrane Science, 2018, 552, 286-294. | 4.1 | 71 |
| 28 | Effect of hydrogen bonding on self-diffusion in methanol/water liquid mixtures: A molecular dynamics simulation study. Journal of Molecular Liquids, 2015, 203, 90-97. | 2.3 | 70 |
| 29 | Gradientâ€Distributed Metal–Organic Framework–Based Porous Membranes for Nonaqueous Redox Flow Batteries. Advanced Energy Materials, 2018, 8, 1802533. | 10.2 | 70 |
| 30 | Effects of stage number of condensing process on the power generation systems for LNG cold energy recovery. Applied Thermal Engineering, 2017, 126, 566-582. | 3.0 | 69 |
| 31 | A highly proton-conductive and vanadium-rejected long-side-chain sulfonated polybenzimidazole membrane for redox flow battery. Journal of Membrane Science, 2020, 596, 117616. | 4.1 | 68 |
| 32 | Covalent organic framework (COF) constructed proton permselective membranes for acid supporting redox flow batteries. Chemical Engineering Journal, 2020, 399, 125833. | 6.6 | 68 |
| 33 | Multishelled NiO Hollow Microspheres for High-performance Supercapacitors with Ultrahigh Energy Density and Robust Cycle Life. Scientific Reports, 2016, 6, 33241. | 1.6 | 66 |
| 34 | Superhydrophobic polypropylene membrane with fabricated antifouling interface for vacuum membrane distillation treating high concentration sodium/magnesium saline water. Journal of Membrane Science, 2019, 579, 240-252. | 4.1 | 66 |
| 35 | Bent-twisted block copolymer anion exchange membrane with improved conductivity. Journal of Membrane Science, 2018, 550, 59-71. | 4.1 | 64 |
| 36 | Bioinspired Hybrid Micro/Nanostructure Composited Membrane with Intensified Mass Transfer and Antifouling for High Saline Water Membrane Distillation. ACS Nano, 2020, 14, 17376-17386. | 7.3 | 64 |

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|----|---|-----|-----------|
| 37 | Synthesis and characteristics of sulfonated poly(phthalazinone ether sulfone ketone) (SPPESK) for direct methanol fuel cell (DMFC). Journal of Membrane Science, 2006, 281, 121-129. | 4.1 | 63 |
| 38 | Quaternary phosphonium-functionalized poly(ether ether ketone) as highly conductive and alkali-stable hydroxide exchange membrane for fuel cells. Journal of Membrane Science, 2014, 466, 220-228. | 4.1 | 63 |
| 39 | Defective graphene coating-induced exposed interfaces on CoS nanosheets for high redox electrocatalysis in lithium-sulfur batteries. Energy Storage Materials, 2021, 40, 358-367. | 9.5 | 63 |
| 40 | Enhanced performance of superhydrophobic polypropylene membrane with modified antifouling surface for high salinity water treatment. Separation and Purification Technology, 2019, 214, 11-20. | 3.9 | 62 |
| 41 | Cross-linked chitosan microspheres: An efficient and eco-friendly adsorbent for iodide removal from waste water. Carbohydrate Polymers, 2019, 209, 215-222. | 5.1 | 60 |
| 42 | Crosslinked poly (ether ether ketone) hydroxide exchange membranes with improved conductivity. Journal of Membrane Science, 2014, 459, 86-95. | 4.1 | 59 |
| 43 | An integrally thin skinned asymmetric architecture design for advanced anion exchange membranes for vanadium flow batteries. Journal of Materials Chemistry A, 2015, 3, 16948-16952. | 5.2 | 59 |
| 44 | lonic liquid tuning nanocage size of MOFs through a two-step adsorption/infiltration strategy for enhanced gas screening of mixed-matrix membranes. Journal of Membrane Science, 2020, 605, 118101. | 4.1 | 59 |
| 45 | Amphoteric-Side-Chain-Functionalized "Ether-Free―Poly(arylene piperidinium) Membrane for Advanced Redox Flow Battery. ACS Applied Materials & Interfaces, 2019, 11, 44315-44324. | 4.0 | 58 |
| 46 | Comparative study of liquefied natural gas (LNG) cold energy power generation systems in series and parallel. Energy Conversion and Management, 2019, 184, 107-126. | 4.4 | 58 |
| 47 | Pendent piperidinium-functionalized blend anion exchange membrane for fuel cell application. International Journal of Hydrogen Energy, 2019, 44, 15482-15493. | 3.8 | 58 |
| 48 | Tri-quaternized poly (ether sulfone) anion exchange membranes with improved hydroxide conductivity. Journal of Membrane Science, 2016, 514, 613-621. | 4.1 | 56 |
| 49 | Guanidimidazole-quanternized and cross-linked alkaline polymer electrolyte membrane for fuel cell application. Journal of Membrane Science, 2016, 501, 100-108. | 4.1 | 56 |
| 50 | Pulverization Control by Confining Fe ₃ O ₄ Nanoparticles Individually into Macropores of Hollow Carbon Spheres for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 2581-2590. | 4.0 | 56 |
| 51 | Electrospun nanofiber enhanced sulfonated poly (phthalazinone ether sulfone ketone) composite proton exchange membranes. Journal of Membrane Science, 2015, 493, 58-65. | 4.1 | 55 |
| 52 | Ether spaced N-spirocyclic quaternary ammonium functionalized crosslinked polysulfone for high alkaline stable anion exchange membranes. Journal of Membrane Science, 2020, 598, 117650. | 4.1 | 55 |
| 53 | Hydrophilic Flexible Ether Containing, Cross-Linked Anion-Exchange Membrane Quaternized with DABCO. ACS Applied Materials & Interfaces, 2020, 12, 3510-3521. | 4.0 | 53 |
| 54 | Constructing low-resistance and high-selectivity transport multi-channels in mixed matrix membranes for efficient CO2 separation. Journal of Membrane Science, 2021, 624, 119046. | 4.1 | 53 |

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|----|---|-----|-----------|
| 55 | ZIF-8 hollow nanotubes based mixed matrix membranes with high-speed gas transmission channel to promote CO2/N2 separation. Journal of Membrane Science, 2021, 630, 119323. | 4.1 | 53 |
| 56 | Thin skinned asymmetric polybenzimidazole membranes with readily tunable morphologies for high-performance vanadium flow batteries. RSC Advances, 2017, 7, 1852-1862. | 1.7 | 50 |
| 57 | "Fishnet-like―ion-selective nanochannels in advanced membranes for flow batteries. Journal of Materials Chemistry A, 2019, 7, 21112-21119. | 5.2 | 50 |
| 58 | Proton delivery through a dynamic 3D H-bond network constructed from dense hydroxyls for advanced ion-selective membranes. Journal of Materials Chemistry A, 2019, 7, 15137-15144. | 5.2 | 50 |
| 59 | Branched, Side-Chain Grafted Polyarylpiperidine Anion Exchange Membranes for Fuel Cell Application. ACS Applied Energy Materials, 2021, 4, 6957-6967. | 2.5 | 50 |
| 60 | Effect of Hydrogen-Bonding Interaction on the Arrangement and Dynamics of Water Confined in a Polyamide Membrane: A Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2018, 122, 4719-4728. | 1.2 | 49 |
| 61 | Poly(2,6-dimethyl-1,4-phenylene oxide) containing imidazolium-terminated long side chains as hydroxide exchange membranes with improved conductivity. Journal of Membrane Science, 2016, 518, 159-167. | 4.1 | 48 |
| 62 | The Synthesis of Mesoporous TiO ₂ /SiO ₂ /Fe ₂ O ₃ Hybrid Particles Containing Micelle- Induced Macropores through an Aerosol Based Process. Langmuir, 2011, 27, 6252-6259. | 1.6 | 47 |
| 63 | Dimensionally stable hexamethylenetetramine functionalized polysulfone anion exchange membranes. Journal of Materials Chemistry A, 2017, 5, 15038-15047. | 5.2 | 47 |
| 64 | Multishelled Transition Metalâ€Based Microspheres: Synthesis and Applications for Batteries and Supercapacitors. Small, 2019, 15, e1804737. | 5.2 | 47 |
| 65 | Scalable High-Areal-Capacity Li–S Batteries Enabled by Sandwich-Structured Hierarchically Porous Membranes with Intrinsic Polysulfide Adsorption. Nano Letters, 2020, 20, 6922-6929. | 4.5 | 47 |
| 66 | Ultra-thin quaternized polybenzimidazole anion exchange membranes with throughout OH ^{â^'} conducive highway networks for high-performance fuel cells. Journal of Materials Chemistry A, 2021, 9, 7522-7530. | 5.2 | 47 |
| 67 | Side-chain manipulation of poly (phenylene oxide) based anion exchange membrane: Alkoxyl extender integrated with flexible spacer. Journal of Membrane Science, 2021, 624, 119088. | 4.1 | 47 |
| 68 | Aligned electrospun nanofibers as proton conductive channels through thickness of sulfonated poly (phthalazinone ether sulfone ketone) proton exchange membranes. Journal of Power Sources, 2017, 358, 134-141. | 4.0 | 46 |
| 69 | Co ₃ O ₄ Nanorods with a Great Amount of Oxygen Vacancies for Highly Efficient Hg ^O Oxidation from Coal Combustion Flue Gas. Energy & Fuels, 2019, 33, 6552-6561. | 2.5 | 46 |
| 70 | Anion exchange membrane with a novel quaternized ammonium containing long ether substituent. Journal of Membrane Science, 2019, 581, 293-302. | 4.1 | 45 |
| 71 | Pre-removal of polybenzimidazole anion to improve flexibility of grafted quaternized side chains for high performance anion exchange membranes. Journal of Power Sources, 2020, 451, 227813. | 4.0 | 45 |
| 72 | Membrane Crystallization for Process Intensification and Control: A Review. Engineering, 2021, 7, 50-62. | 3.2 | 45 |

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| 73 | A novel long-side-chain sulfonated poly(2,6-dimethyl-1,4-phenylene oxide) membrane for vanadium redox flow battery. International Journal of Hydrogen Energy, 2018, 43, 301-310. | 3.8 | 43 |
| 74 | Proton conductivity enhancement of SPEEK membrane through n-BuOH assisted self-organization. Journal of Membrane Science, 2015, 479, 46-54. | 4.1 | 42 |
| 75 | Electrospinning fiberization of carbon nanotube hybrid sulfonated poly (ether ether ketone) ion conductive membranes for a vanadium redox flow battery. Journal of Membrane Science, 2019, 583, 93-102. | 4.1 | 42 |
| 76 | Simultaneous removal of HgO and NO from flue gas by CoO.3-CeO.35-ZrO.35O2 impregnated with MnOx. Chemical Engineering Journal, 2017, 326, 1210-1222. | 6.6 | 41 |
| 77 | Redistributing Li-ion flux and homogenizing Li-metal growth by N-doped hierarchically porous membranes for dendrite-free Lithium metal batteries. Energy Storage Materials, 2021, 37, 233-242. | 9.5 | 41 |
| 78 | Long-spacer-chain imidazolium functionalized poly(ether ether ketone) as hydroxide exchange membrane for fuel cell. International Journal of Hydrogen Energy, 2016, 41, 14982-14990. | 3.8 | 40 |
| 79 | Understanding of imidazolium group hydration and polymer structure for hydroxide anion conduction in hydrated imidazolium-g-PPO membrane by molecular dynamics simulations. Chemical Engineering Science, 2018, 192, 1167-1176. | 1.9 | 40 |
| 80 | Progress in membrane distillation crystallization: Process models, crystallization control and innovative applications. Frontiers of Chemical Science and Engineering, 2017, 11, 647-662. | 2.3 | 39 |
| 81 | Tuning hydrogen bond and flexibility of N-spirocyclic cationic spacer for high performance anion exchange membranes. Journal of Membrane Science, 2020, 613, 118507. | 4.1 | 39 |
| 82 | The synergistic effect of protonated imidazole-hydroxyl-quaternary ammonium on improving performances of anion exchange membrane assembled flow batteries. Journal of Membrane Science, 2020, 603, 118011. | 4.1 | 39 |
| 83 | Cyclodextrin modified, multication cross-linked high performance anion exchange membranes for fuel cell application. Journal of Membrane Science, 2020, 607, 118190. | 4.1 | 38 |
| 84 | Patterned macroporous Fe ₃ C/C membrane-induced high ionic conductivity for integrated Li–sulfur battery cathodes. Journal of Materials Chemistry A, 2019, 7, 20614-20623. | 5.2 | 37 |
| 85 | Fe3C-doped asymmetric porous carbon membrane binder-free integrated materials as high performance anodes of lithium-ion batteries. Chemical Engineering Journal, 2019, 368, 310-320. | 6.6 | 37 |
| 86 | Ion/Molecule-selective transport nanochannels of membranes for redox flow batteries. Energy Storage Materials, 2021, 34, 648-668. | 9.5 | 37 |
| 87 | Preparation and characterization of poly(vinylidene fluoride)/sulfonated poly(phthalazinone ether) Tj ETQq1 1 852-860. | . 0.784314 r 1.3 | gBT /Overloc 36 |
| 88 | Magnetic titania-silica composite–Polypyrrole core–shell spheres and their high sensitivity toward hydrogen peroxide as electrochemical sensor. Journal of Colloid and Interface Science, 2012, 387, 39-46. | 5.0 | 36 |
| 89 | Constructing a rigid crosslinked structure for enhanced conductivity of imidazolium functionalized polysulfone hydroxide exchange membrane. International Journal of Hydrogen Energy, 2016, 41, 10923-10934. | 3.8 | 36 |
| 90 | Facile fabrication of amphoteric semi-interpenetrating network membranes for vanadium flow battery applications. Journal of Energy Chemistry, 2018, 27, 1189-1197. | 7.1 | 36 |

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|-----|---|---------------|---------------|
| 91 | High-Performance Anion Exchange Membranes with Para-Type Cations on Electron-Withdrawing Câ•O Links Free Backbone. Macromolecules, 2020, 53, 10988-10997. | 2.2 | 36 |
| 92 | Stretched ZIF-8@GO flake-like fillers via pre-Zn(II)-doping strategy to enhance CO2 permeation in mixed matrix membranes. Journal of Membrane Science, 2020, 601, 117934. | 4.1 | 35 |
| 93 | Ion and water transport in functionalized PEEK membranes. Journal of Membrane Science, 2013, 429, 13-22. | 4.1 | 34 |
| 94 | Hydroxide ion transfer in anion exchange membrane: A density functional theory study. International Journal of Hydrogen Energy, 2016, 41, 6877-6884. | 3.8 | 34 |
| 95 | Electrospun imidazolium functionalized multiwalled carbon nanotube/ polysulfone inorganic-organic nanofibers for reinforced anion exchange membranes. International Journal of Hydrogen Energy, 2018, 43, 21547-21559. | 3.8 | 34 |
| 96 | An interface-strengthened cross-linked graphene oxide/Nafion212 composite membrane for vanadium flow batteries. Journal of Membrane Science, 2019, 587, 117189. | 4.1 | 34 |
| 97 | Octopus-like side chain grafted poly(arylene piperidinium) membranes for fuel cell application. Journal of Membrane Science, 2021, 636, 119529. | 4.1 | 34 |
| 98 | Magnetic TiO2–SiO2 hybrid hollow spheres with TiO2 nanofibers on the surface and their formation mechanism. Journal of Materials Chemistry, 2012, 22, 17476. | 6.7 | 33 |
| 99 | Thermoplastic interpenetrating polymer networks based on polybenzimidazole and poly (1,) Tj ETQq1 1 0.784 | 1314 rg,BT /O | verlgck 10 Tf |
| 100 | Hierarchical porous HKUST-1 fabricated by microwave-assisted synthesis with CTAB for enhanced adsorptive removal of benzothiophene from fuel. Separation and Purification Technology, 2021, 271, 118868. | 3.9 | 33 |
| 101 | Minimizing power consumption of boil off gas (BOG) recondensation process by power generation using cold energy in liquefied natural gas (LNG) regasification process. Journal of Cleaner Production, 2019, 238, 117949. | 4.6 | 32 |
| 102 | Blend anion exchange membranes containing polymer of intrinsic microporosity for fuel cell application. Journal of Membrane Science, 2020, 595, 117541. | 4.1 | 32 |
| 103 | Highly Efficient Polysulfide Trapping and Ion Transferring within a Hierarchical Porous Membrane Interlayer for High-Energy Lithium–Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 5050-5057. | 2.5 | 32 |
| 104 | A simultaneous approach to optimize the component and composition of zeotropic mixture for power generation systems. Energy Conversion and Management, 2018, 165, 354-362. | 4.4 | 31 |
| 105 | Branched poly(ether ether ketone) based anion exchange membrane for H2/O2 fuel cell. International Journal of Hydrogen Energy, 2019, 44, 23750-23761. | 3.8 | 31 |
| 106 | Prestructured <scp>MXene</scp> fillers with uniform channels to enhance <scp>CO₂</scp> selective permeation in mixed matrix membranes. Journal of Applied Polymer Science, 2021, 138, 49895. | 1.3 | 31 |
| 107 | Facilitating ionic conduction for anion exchange membrane via employing star-shaped block copolymer. Journal of Membrane Science, 2021, 630, 119290. | 4.1 | 31 |
| 108 | Sulfonated polybenzimidazole/amine functionalized titanium dioxide (sPBI/AFT) composite electrolyte membranes for high temperature proton exchange membrane fuel cells usage. Chinese Journal of Chemical Engineering, 2020, 28, 2425-2437. | 1.7 | 31 |

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| 109 | Electrospun nanofiber enhanced imidazolium-functionalized polysulfone composite anion exchange membranes. RSC Advances, 2015, 5, 95118-95125. | 1.7 | 30 |
| 110 | Microencapsulation of astaxanthin in alginate using modified emulsion technology: Preparation, characterization, and cytostatic activity. Canadian Journal of Chemical Engineering, 2017, 95, 412-419. | 0.9 | 30 |
| 111 | Ce-Co interaction effects on the catalytic performance of uniform mesoporous Cex-Coy catalysts in HgO oxidation process. Fuel, 2018, 226, 18-26. | 3.4 | 30 |
| 112 | Simultaneous optimization strategies for heat exchanger network synthesis and detailed shell-and-tube heat-exchanger design involving phase changes using GA/SA. Energy, 2019, 183, 1166-1177. | 4.5 | 30 |
| 113 | Molecular dynamics simulation on the effect of water uptake on hydrogen bond network for OHâ^' conduction in imidazolium-g-PPO membrane. International Journal of Hydrogen Energy, 2019, 44, 3760-3770. | 3.8 | 30 |
| 114 | Electrochemical Reduction of CO ₂ in Proton Exchange Membrane Reactor: The Function of Buffer Layer. Industrial & Engineering Chemistry Research, 2017, 56, 10242-10250. | 1.8 | 29 |
| 115 | Anion exchange membranes with "rigid-side-chain" symmetric piperazinium structures for fuel cell exceeding 1.2†W†cmâ^'2 at 60 A°C. Journal of Power Sources, 2019, 438, 227021. | 4.0 | 29 |
| 116 | Fabrication and characterization of sulfonated polybenzimidazole/sulfonated imidized graphene oxide hybrid membranes for high temperature proton exchange membrane fuel cells. Journal of Applied Polymer Science, 2019, 136, 47892. | 1.3 | 29 |
| 117 | Friedel-Crafts alkylation route for preparation of pendent side chain imidazolium-functionalized polysulfone anion exchange membranes for fuel cells. Journal of Membrane Science, 2019, 573, 157-166. | 4.1 | 29 |
| 118 | A novel hollow fiber membraneâ€assisted antisolvent crystallization for enhanced mass transfer process control. AICHE Journal, 2019, 65, 734-744. | 1.8 | 29 |
| 119 | Polybenzimidazole Ultrathin Anion Exchange Membrane with Comb-Shape Amphiphilic Microphase Networks for a High-Performance Fuel Cell. ACS Applied Materials & Interfaces, 2021, 13, 49840-49849. | 4.0 | 29 |
| 120 | Tailoring the nanophase-separated morphology of anion exchange membrane by embedding aliphatic chains of different lengths into aromatic main chains. Journal of Membrane Science, 2018, 564, 436-443. | 4.1 | 28 |
| 121 | Membrane-based separation technologies: from polymeric materials to novel process: an outlook from China. Reviews in Chemical Engineering, 2019, 36, 67-105. | 2.3 | 28 |
| 122 | Chitosan-hydrophobic alginate nanocomposites stabilized pH-triggered Pickering emulsion for drug controlled-release. International Journal of Biological Macromolecules, 2020, 162, 1888-1896. | 3.6 | 28 |
| 123 | Block copolymer anion exchange membrane containing polymer of intrinsic microporosity for fuel cell application. International Journal of Hydrogen Energy, 2021, 46, 2269-2281. | 3.8 | 28 |
| 124 | Interfaceâ€based crystal particle autoselection via membrane crystallization: From scaling to process control. AICHE Journal, 2019, 65, 723-733. | 1.8 | 27 |
| 125 | Zeolitic imidazole framework-derived FeN5-doped carbon as superior CO2 electrocatalysts. Journal of Catalysis, 2021, 395, 63-69. | 3.1 | 27 |
| 126 | A multi-objective optimization strategy of steam power system to achieve standard emission and optimal economic by NSGA-âj. Energy, 2021, 232, 120953. | 4.5 | 27 |

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| 127 | Pebax-based mixed matrix membranes derived from microporous carbon nanospheres for permeable and selective CO2 separation. Separation and Purification Technology, 2021, 274, 119015. | 3.9 | 27 |
| 128 | Modification of hydrophilic channels in Nafion membranes by DMBA: Mechanism and effects on proton conductivity. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1107-1117. | 2.4 | 26 |
| 129 | Reaction mechanism for the influence of SO2 on Hg0 adsorption and oxidation with Ce0.1-Zr-MnO2. Fuel, 2017, 203, 308-315. | 3.4 | 26 |
| 130 | Hydrophilic/hydrophobic-bi-comb-shaped amphoteric membrane for vanadium redox flow battery. Journal of Membrane Science, 2020, 608, 118179. | 4.1 | 26 |
| 131 | The state of water in the series of sulfonated poly (phthalazinone ether sulfone ketone) (SPPESK) proton exchange membranes. Chemical Engineering Journal, 2010, 156, 578-581. | 6.6 | 25 |
| 132 | Bis-ammonium immobilized polystyrenes with co-catalyzing functional end groups as efficient and reusable heterogeneous catalysts for synthesis of cyclic carbonate from CO ₂ and epoxides. RSC Advances, 2016, 6, 2217-2224. | 1.7 | 25 |
| 133 | Hydration structures of vanadium/oxovanadium cations in the presence of sulfuric acid: A molecular dynamics simulation study. Chemical Engineering Science, 2019, 195, 683-692. | 1.9 | 25 |
| 134 | Two-dimensional MoS2 nanosheets constructing highly ion-selective composite membrane for vanadium redox flow battery. Journal of Membrane Science, 2021, 623, 119051. | 4.1 | 25 |
| 135 | Highly stable electron-withdrawing C O link-free backbone with branched cationic side chain as anion exchange membrane. Journal of Membrane Science, 2021, 624, 119052. | 4.1 | 25 |
| 136 | Ion conductive mechanisms and redox flow battery applications of polybenzimidazole-based membranes. Energy Storage Materials, 2022, 45, 595-617. | 9.5 | 25 |
| 137 | Hierarchically porous membranes for lithium rechargeable batteries: Recent progress and opportunities. EcoMat, 2022, 4, . | 6.8 | 24 |
| 138 | Cross-linked chitosan microspheres entrapping silver chloride via the improved emulsion technology for iodide ion adsorption. Carbohydrate Polymers, 2020, 234, 115926. | 5.1 | 23 |
| 139 | Dual-Side-Chain-Grafted Poly(phenylene oxide) Anion Exchange Membranes for Fuel-Cell and Electrodialysis Applications. ACS Sustainable Chemistry and Engineering, 2021, 9, 8611-8622. | 3.2 | 23 |
| 140 | 3D hollow CoNi-LDH nanocages based MMMs with low resistance and CO2-philic transport channel to boost CO2 capture. Journal of Membrane Science, 2022, 653, 120542. | 4.1 | 23 |
| 141 | Hybrid anion exchange membrane of hydroxyl-modified polysulfone incorporating guanidinium-functionalized graphene oxide. Ionics, 2017, 23, 3085-3096. | 1.2 | 22 |
| 142 | Electron-Donating C-NH ₂ Link Backbone for Highly Alkaline and Mechanical Stable Anion Exchange Membranes. ACS Applied Materials & Interfaces, 2021, 13, 10490-10499. | 4.0 | 22 |
| 143 | PAN electrospun nanofiber skeleton induced MOFs continuous distribution in MMMs to boost CO2 capture. Journal of Membrane Science, 2022, 650, 120330. | 4.1 | 22 |
| 144 | Hierarchically porous membranes with synergistic Co clusters and N active sites enabled High-Efficient Li-ion transporting and redox reaction activity in Li–S batteries. Chemical Engineering Journal, 2022, 434, 134797. | 6.6 | 22 |

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| 145 | Hybrid Control Mechanism of Crystal Morphology Modification for Ternary Solution Treatment via Membrane Assisted Crystallization. Crystal Growth and Design, 2018, 18, 934-943. | 1.4 | 21 |
| 146 | Bis(oxazoline)-derived N-heterocyclic carbene ligated rare-earth metal complexes: synthesis, structure, and polymerization performance. Dalton Transactions, 2018, 47, 13815-13823. | 1.6 | 21 |
| 147 | Cyclodextrin templated nanoporous anion exchange membrane for vanadium flow battery application. Journal of Membrane Science, 2019, 586, 98-105. | 4.1 | 21 |
| 148 | Facile synthesis of hierarchical micro-mesoporous HKUST-1 by a mixed-linker defect strategy for enhanced adsorptive removal of benzothiophene from fuel. Fuel, 2021, 300, 120955. | 3.4 | 21 |
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