

Song Zhao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

3,505
citations

38
h-index

55
g-index

110
ext. papers

4,541
ext. citations

8.3
avg, IF

5.99
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 109 | In situ immobilization of silver nanoparticles for improving permeability, antifouling and anti-bacterial properties of ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2016 , 499, 269-281 | 9.6 | 165 |
| 108 | Performance improvement of polysulfone ultrafiltration membrane using PANiEB as both pore forming agent and hydrophilic modifier. <i>Journal of Membrane Science</i> , 2011 , 385-386, 251-262 | 9.6 | 123 |
| 107 | Improving permeability and antifouling performance of polyethersulfone ultrafiltration membrane by incorporation of ZnO-DMF dispersion containing nano-ZnO and polyvinylpyrrolidone. <i>Journal of Membrane Science</i> , 2015 , 478, 105-116 | 9.6 | 119 |
| 106 | Efficient removal of Cr (VI) by magnetic and recyclable calcined CoFe-LDH/g-C3N4 via the synergy of adsorption and photocatalysis under visible light. <i>Chemical Engineering Journal</i> , 2020 , 380, 122600 | 14.7 | 118 |
| 105 | Metal-induced ordered microporous polymers for fabricating large-area gas separation membranes. <i>Nature Materials</i> , 2019 , 18, 163-168 | 27 | 113 |
| 104 | Mineral scaling in membrane desalination: Mechanisms, mitigation strategies, and feasibility of scaling-resistant membranes. <i>Journal of Membrane Science</i> , 2019 , 579, 52-69 | 9.6 | 93 |
| 103 | Iodine Capture Using Zr-Based Metal-Organic Frameworks (Zr-MOFs): Adsorption Performance and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20429-20439 | 9.5 | 91 |
| 102 | Fabrication of high-performance facilitated transport membranes for CO2 separation. <i>Chemical Science</i> , 2014 , 5, 2843-2849 | 9.4 | 90 |
| 101 | Relating Silica Scaling in Reverse Osmosis to Membrane Surface Properties. <i>Environmental Science & Technology</i> , 2017 , 51, 4396-4406 | 10.3 | 84 |
| 100 | Improved performance of polyamide thin-film composite nanofiltration membrane by using polyethersulfone/polyaniline membrane as the substrate. <i>Journal of Membrane Science</i> , 2015 , 493, 263-274 | 9.6 | 80 |
| 99 | Recent advances on mixed matrix membranes for CO 2 separation. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 1581-1597 | 3.2 | 80 |
| 98 | Comparison study of the effect of PVP and PANI nanofibers additives on membrane formation mechanism, structure and performance. <i>Journal of Membrane Science</i> , 2011 , 385-386, 110-122 | 9.6 | 80 |
| 97 | Performance Improvement of Polysulfone Ultrafiltration Membrane Using Well-Dispersed Polyaniline/Poly(vinylpyrrolidone) Nanocomposite as the Additive. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4661-4672 | 3.9 | 79 |
| 96 | Enhancing the flux of brackish water TFC RO membrane by improving support surface porosity via a secondary pore-forming method. <i>Journal of Membrane Science</i> , 2016 , 498, 227-241 | 9.6 | 74 |
| 95 | Gas separation membrane with CO2-facilitated transport highway constructed from amino carrier containing nanorods and macromolecules. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 246-249 | 13 | 70 |
| 94 | In situ synthesis of polymer grafted ZIFs and application in mixed matrix membrane for CO2 separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3151-3161 | 13 | 69 |
| 93 | PSf/PANI nanocomposite membrane prepared by in situ blending of PSf and PANI/NMP. <i>Journal of Membrane Science</i> , 2011 , 376, 83-95 | 9.6 | 66 |

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| 92 | Interfacial polymerized and pore-variable covalent organic framework composite membrane for dye separation. <i>Chemical Engineering Journal</i> , 2020 , 384, 123347 | 14.7 | 66 |
| 91 | Mixed pharmaceutical wastewater treatment by integrated membrane-aerated biofilm reactor (MABR) system--a pilot-scale study. <i>Bioresource Technology</i> , 2012 , 122, 189-95 | 11 | 64 |
| 90 | A novel pathway for high performance RO membrane: Preparing active layer with decreased thickness and enhanced compactness by incorporating tannic acid into the support. <i>Journal of Membrane Science</i> , 2018 , 555, 157-168 | 9.6 | 60 |
| 89 | p-Directed Incorporation of Phosphonates into MOF-808 via Ligand Exchange: Stability and Adsorption Properties for Uranium. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33931-33940 | 9.5 | 60 |
| 88 | Relationship between polymer/filler interfaces in separation layers and gas transport properties of mixed matrix composite membranes. <i>Journal of Membrane Science</i> , 2015 , 495, 252-268 | 9.6 | 59 |
| 87 | Enhanced performance of mixed matrix membrane by incorporating a highly compatible covalent organic framework into poly(vinylamine) for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9167-9174 | 6.7 | 59 |
| 86 | Trade-off in membrane distillation with monolithic omniphobic membranes. <i>Nature Communications</i> , 2019 , 10, 3220 | 17.4 | 56 |
| 85 | Mixed-Matrix Membranes for CO ₂ /N ₂ Separation Comprising a Poly(vinylamine) Matrix and Metal-Organic Frameworks. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5139-5148 | 3.9 | 55 |
| 84 | A high performance PVAm@IT membrane containing high-speed facilitated transport channels for CO ₂ separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16746-16761 | 13 | 50 |
| 83 | Penetrated COF Channels: Amino Environment and Suitable Size for CO Preferential Adsorption and Transport in Mixed Matrix Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5306-5315 | 9.5 | 50 |
| 82 | A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9321-5 | 16.4 | 47 |
| 81 | A synergistic strategy via the combination of multiple functional groups into membranes towards superior CO ₂ separation performances. <i>Journal of Membrane Science</i> , 2015 , 476, 243-255 | 9.6 | 43 |
| 80 | A support surface pore structure re-construction method to enhance the flux of TFC RO membrane. <i>Journal of Membrane Science</i> , 2017 , 541, 39-52 | 9.6 | 43 |
| 79 | Preparation and characterization of a polyethersulfone/polyaniline nanocomposite membrane for ultrafiltration and as a substrate for a gas separation membrane. <i>RSC Advances</i> , 2015 , 5, 27211-27223 | 3.7 | 42 |
| 78 | Amino-modified hollow mesoporous silica nanospheres-incorporated reverse osmosis membrane with high performance. <i>Journal of Membrane Science</i> , 2019 , 581, 168-177 | 9.6 | 41 |
| 77 | Closed-Loop Electrochemical Recycling of Spent Copper(II) from Etchant Wastewater Using a Carbon Nanotube Modified Graphite Felt Anode. <i>Environmental Science & Technology</i> , 2018 , 52, 5940-5948 | 10.3 | 40 |
| 76 | COD and nitrogen removal in facilitated transfer membrane-aerated biofilm reactor (FT-MABR). <i>Journal of Membrane Science</i> , 2012 , 389, 257-264 | 9.6 | 40 |
| 75 | Post-combustion CO ₂ capture with membrane process: Practical membrane performance and appropriate pressure. <i>Journal of Membrane Science</i> , 2019 , 581, 195-213 | 9.6 | 39 |

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| 74 | Reverse osmosis membranes with guanidine and amine enriched surface for biofouling and organic fouling control. <i>Desalination</i> , 2018 , 430, 74-85 | 10.3 | 39 |
| 73 | Combined Organic Fouling and Inorganic Scaling in Reverse Osmosis: Role of Protein-Silica Interactions. <i>Environmental Science & Technology</i> , 2018 , 52, 9145-9153 | 10.3 | 39 |
| 72 | Recent advances on the membrane processes for CO ₂ separation. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 2280-2291 | 3.2 | 39 |
| 71 | PVC-based hybrid membranes containing metal-organic frameworks for Li ⁺ /Mg ²⁺ separation. <i>Journal of Membrane Science</i> , 2020 , 596, 117724 | 9.6 | 37 |
| 70 | Unobstructed Ultrathin Gas Transport Channels in Composite Membranes by Interfacial Self-Assembly. <i>Advanced Materials</i> , 2020 , 32, e1907701 | 24 | 33 |
| 69 | Combining co-solvent-optimized interfacial polymerization and protective coating-controlled chlorination for highly permeable reverse osmosis membranes with high rejection. <i>Journal of Membrane Science</i> , 2019 , 572, 61-72 | 9.6 | 33 |
| 68 | Robust porous polymers bearing phosphine oxide/chalcogenide ligands for volatile iodine capture. <i>Chemical Engineering Journal</i> , 2020 , 379, 122365 | 14.7 | 33 |
| 67 | Robust superhydrophobic mesh coated by PANI/TiO ₂ nanoclusters for oil/water separation with high flux, self-cleaning, photodegradation and anti-corrosion. <i>Separation and Purification Technology</i> , 2020 , 235, 116166 | 8.3 | 30 |
| 66 | The effect of pH of coagulation bath on tailoring the morphology and separation performance of polysulfone/polyaniline ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2014 , 469, 316-325 | 9.6 | 28 |
| 65 | Preparation of high-performance and pressure-resistant mixed matrix membranes for CO ₂ /H ₂ separation by modifying COF surfaces with the groups or segments of the polymer matrix. <i>Journal of Membrane Science</i> , 2020 , 601, 117882 | 9.6 | 27 |
| 64 | A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO ₂ Separation. <i>Angewandte Chemie</i> , 2016 , 128, 9467-9471 | 3.6 | 26 |
| 63 | Electrochemical impedance spectroscopy (EIS): An efficiency method to monitor resin curing processes. <i>Sensors and Actuators A: Physical</i> , 2016 , 250, 78-86 | 3.9 | 23 |
| 62 | Covalent organic framework membranes with limited channels filling through in-situ grown polyaniline for efficient dye nanofiltration. <i>Chemical Engineering Journal</i> , 2021 , 414, 128929 | 14.7 | 23 |
| 61 | Recent Advances of Gas Transport Channels Constructed with Different Dimensional Nanomaterials in Mixed-Matrix Membranes for CO ₂ Separation. <i>Small Methods</i> , 2020 , 4, 1900749 | 12.8 | 22 |
| 60 | A highly efficient cathode based on modified graphite felt for aniline degradation by electro-Fenton. <i>Chemosphere</i> , 2019 , 235, 49-57 | 8.4 | 22 |
| 59 | Confined growth of skin layer for high performance reverse osmosis membrane. <i>Journal of Membrane Science</i> , 2019 , 585, 208-217 | 9.6 | 21 |
| 58 | Poly(ether sulfone)/Polyaniline Nanocomposite Membranes: Effect of Nanofiber Size on Membrane Morphology and Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11468-11477 | 3.9 | 21 |
| 57 | Combining tannic acid-modified support and a green co-solvent for high performance reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020 , 595, 117474 | 9.6 | 21 |

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| 56 | Mixed matrix membranes for CO ₂ separations by incorporating microporous polymer framework fillers with amine-rich nanochannels. <i>Journal of Membrane Science</i> , 2021 , 620, 118923 | 9.6 | 21 |
| 55 | Polymeric composite membrane fabricated by 2-aminoterephthalic acid chemically cross-linked polyvinylamine for CO ₂ separation under high temperature. <i>Journal of Membrane Science</i> , 2016 , 518, 60-71 | 9.6 | 19 |
| 54 | Lithium extraction from synthetic brine with high Mg ²⁺ /Li ⁺ ratio using the polymer inclusion membrane. <i>Desalination</i> , 2020 , 496, 114710 | 10.3 | 19 |
| 53 | Antifouling and antibacterial behavior of polyethersulfone membrane incorporating polyaniline@silver nanocomposites. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 710-719 | 4.2 | 18 |
| 52 | Parametric analysis and potential prediction of membrane processes for hydrogen production and pre-combustion CO ₂ capture. <i>Chemical Engineering Science</i> , 2015 , 135, 202-216 | 4.4 | 18 |
| 51 | Reverse osmosis membrane with simultaneous fouling- and scaling-resistance based on multilayered metal-phytic acid assembly. <i>Journal of Membrane Science</i> , 2020 , 601, 117888 | 9.6 | 18 |
| 50 | Antifouling and anticorrosion properties of one-pot synthesized dedoped bromo-substituted polyaniline and its composite coatings. <i>Surface and Coatings Technology</i> , 2018 , 334, 7-18 | 4.4 | 18 |
| 49 | Membrane technology for CO ₂ capture: From pilot-scale investigation of two-stage plant to actual system design. <i>Journal of Membrane Science</i> , 2021 , 624, 119137 | 9.6 | 18 |
| 48 | Effect of surface modification and medium on the rheological properties of silica nanoparticle suspensions. <i>Ceramics International</i> , 2016 , 42, 7767-7773 | 5.1 | 17 |
| 47 | 1-methylimidazole as a novel additive for reverse osmosis membrane with high flux-rejection combinations and good stability. <i>Journal of Membrane Science</i> , 2020 , 599, 117830 | 9.6 | 17 |
| 46 | Improved antibacterial, antifouling and corrosion protective performance of epoxy coatings with poly(m-aminophenol). <i>Progress in Organic Coatings</i> , 2018 , 115, 9-17 | 4.8 | 17 |
| 45 | Porous MOF-808@PVDF beads for removal of iodine from gas streams.. <i>RSC Advances</i> , 2020 , 10, 44679-44687 | 9.7 | 16 |
| 44 | Metal-induced polymer framework membrane with high performance for CO ₂ separation. <i>AIChE Journal</i> , 2019 , 65, 239-249 | 3.6 | 15 |
| 43 | Elucidating mechanisms of silica scaling in membrane distillation: effects of membrane surface wettability. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 2004-2014 | 4.2 | 13 |
| 42 | Adjusting carrier microenvironment in CO ₂ separation fixed carrier membrane. <i>Journal of Membrane Science</i> , 2016 , 511, 9-19 | 9.6 | 13 |
| 41 | Effect of acid and temperature on the discontinuous shear thickening phenomenon of silica nanoparticle suspensions. <i>Chemical Physics Letters</i> , 2016 , 658, 210-214 | 2.5 | 12 |
| 40 | Hydrophilic and antimicrobial core-shell nanoparticles containing guanidine groups for ultrafiltration membrane modification.. <i>RSC Advances</i> , 2018 , 8, 24690-24700 | 3.7 | 11 |
| 39 | Antibacterial and antifouling performance of bisphenol-A/Poly(ethylene glycol) binary epoxy coatings containing bromine-benzyl-disubstituted polyaniline. <i>Progress in Organic Coatings</i> , 2018 , 124, 61-70 | 4.8 | 11 |

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| 38 | Carbonic anhydrase inspired poly(N-vinylimidazole)/zeolite Zn-hybrid membranes for CO capture. <i>Chemical Communications</i> , 2018 , 54, 7239-7242 | 5.8 | 11 |
| 37 | Degradation of aniline by photoelectro-Fenton process using g-C3N4 based cathode. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113273 | 4.1 | 11 |
| 36 | High adsorption performance polymers modified by small molecules containing functional groups for CO2 separation. <i>RSC Advances</i> , 2013 , 3, 50-54 | 3.7 | 10 |
| 35 | Nitrogen-doped graphene prepared by a millisecond photo-thermal process and its applications. <i>Organic Electronics</i> , 2018 , 56, 221-231 | 3.5 | 9 |
| 34 | High-performance membrane with angstrom-scale manipulation of gas transport channels via polymeric decorated MOF cavities. <i>Journal of Membrane Science</i> , 2021 , 625, 119175 | 9.6 | 9 |
| 33 | Treatment of Polyaniline Wastewater by Coupling of Photoelectro-Fenton and Heterogeneous Photocatalysis with Black TiO2 Nanotubes. <i>ACS Omega</i> , 2019 , 4, 9664-9672 | 3.9 | 8 |
| 32 | Electrochemical Preparation of Polyaniline Nanowires with the Used Electrolyte Solution Treated with the Extraction Process and Their Electrochemical Performance. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 8 |
| 31 | The influence of the nonsolvent intrusion through the casting film bottom surface on the macrovoid formation. <i>Journal of Membrane Science</i> , 2014 , 464, 8-19 | 9.6 | 8 |
| 30 | Support surface pore structures matter: Effects of support surface pore structures on the TFC gas separation membrane performance over a wide pressure range. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1807-1816 | 3.2 | 8 |
| 29 | High-flux polyamide thin film nanofiltration membrane incorporated with metal-induced ordered microporous polymers. <i>Separation and Purification Technology</i> , 2021 , 256, 117817 | 8.3 | 8 |
| 28 | In-situ growth of double-layered polyaniline composite membrane for organic solvent nanofiltration. <i>Chemical Engineering Journal</i> , 2021 , 420, 129338 | 14.7 | 8 |
| 27 | Giant Rheological Effect of Shear Thickening Suspension Comprising Silica Nanoparticles with No Aggregation. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 261-265 | 9.1 | 7 |
| 26 | Some Important Issues of the Commercial Production of 1-D Nano-PANI. <i>Polymers</i> , 2019 , 11, | 4.5 | 6 |
| 25 | The high performance of polyaniline-gel network modified electrode in 3-(2,2,6,6-tetramethyl-piperidiny1-1-oxyl)-1-methylimidazoliumbromide biredox electrolyte used for supercapacitor. <i>Journal of Power Sources</i> , 2019 , 434, 226745 | 8.9 | 6 |
| 24 | Swelling-controlled positioning of nanofillers through a polyamide layer in thin-film nanocomposite membranes for CO2 separation. <i>Journal of Membrane Science</i> , 2021 , 624, 119095 | 9.6 | 6 |
| 23 | High protective performance coatings assembled by epoxy-modified furfural-acetone containing polyaniline nanowires for mild steel. <i>Progress in Organic Coatings</i> , 2019 , 134, 48-57 | 4.8 | 5 |
| 22 | Preparation of multifunctional conductive polymers with-C = N-conjugated system and amino groups and application as active coating additives. <i>Reactive and Functional Polymers</i> , 2016 , 109, 79-87 | 4.6 | 5 |
| 21 | Oxygen vacancy semiconductor: an additive to improve corrosion protective performance significantly. <i>Journal of Materials Science</i> , 2018 , 53, 15614-15620 | 4.3 | 5 |

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| 20 | Experimental Study of the Crystal Habit of High Explosive Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) in Acetone and Dimethyl Sulfoxide. <i>Crystal Growth and Design</i> , 2020 , 20, 6622-6628 | 3.5 | 5 |
| 19 | Millisecond photo-thermal process on significant improvement of supercapacitor performance. <i>Applied Thermal Engineering</i> , 2016 , 109, 186-195 | 5.8 | 5 |
| 18 | Reverse osmosis membranes with sulfonate and phosphate groups having excellent anti-scaling and anti-fouling properties. <i>Desalination</i> , 2021 , 509, 115076 | 10.3 | 5 |
| 17 | Large-scale preparation of multilayer composite membranes for post-combustion CO ₂ capture. <i>Journal of Membrane Science</i> , 2021 , 636, 119595 | 9.6 | 5 |
| 16 | Bifunctional oxygen-vacancy abundant perovskite nanosheets for improving protective performance of epoxy coatings. <i>Progress in Organic Coatings</i> , 2019 , 137, 105301 | 4.8 | 4 |
| 15 | Superhydrophilic Stainless Steel Mesh for Oil/Water Separation with Long-Term Durability, Impressive Corrosion Resistance, and Abrasion Resistance. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000262 | 3.5 | 4 |
| 14 | The performance of epoxy coatings containing polyaniline (PANI) nanowires in neutral salt, alkaline, and acidic aqueous media. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49049 | 2.9 | 4 |
| 13 | Antifouling and anticorrosion performance of the composite coating made of tetrabromobisphenol-A epoxy and polyaniline nanowires. <i>Progress in Organic Coatings</i> , 2020 , 148, 105888 | 4.8 | 3 |
| 12 | AC impedance function of electrochemical working station as novel curing degree monitor method: A model curing system of epoxy/anhydride/DMP-30. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 145, 600-610 | 4.6 | 2 |
| 11 | Interlayer-modulated polyamide composite membrane for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 647, 120306 | 9.6 | 2 |
| 10 | Reuse of PANI wastewater treated by anodic oxidation/electro-Fenton for the preparation of PANI. <i>Chemosphere</i> , 2020 , 245, 125689 | 8.4 | 2 |
| 9 | Sulfonated Reverse Osmosis Membrane Fabricated with Comonomer Having Excellent Scaling and Fouling Resistance. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3095-3104 | 3.9 | 2 |
| 8 | CO ₂ -Selective Membranes: How Easy Is Their Moving From Laboratory to Industrial Scale? 2018 , 75-102 | | 2 |
| 7 | Hydrothermal pretreatment: A simple method for dry substrate membrane regeneration. <i>Separation and Purification Technology</i> , 2018 , 199, 152-160 | 8.3 | 2 |
| 6 | Nanofiltration membrane with crown ether as exclusive Li ⁺ transport channels achieving efficient extraction of lithium from salt lake brine. <i>Chemical Engineering Journal</i> , 2022 , 438, 135658 | 14.7 | 2 |
| 5 | Host-guest nanofiltration membranes having amino-complexed cucurbituril supramolecular channel for monovalent/divalent salts separation. <i>Desalination</i> , 2022 , 527, 115582 | 10.3 | 1 |
| 4 | Conjugated polyaniline derivative membranes enable ultrafast nanofiltration and organic-solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 645, 120241 | 9.6 | 1 |
| 3 | Covalent organic framework membrane reconstructed through intra-pore reaction having tunable performance for molecular separation. <i>Separation and Purification Technology</i> , 2022 , 285, 120387 | 8.3 | 0 |

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| 2 | In-situ fabricated covalent organic frameworks-polyamide hybrid membrane for highly efficient molecular separation. <i>Journal of Membrane Science</i> , 2022 , 120544 | 9.6 | o |
| 1 | Ultrathin and high-performance covalent organic frameworks composite membranes generated by oligomer triggered interfacial polymerization. <i>Journal of Membrane Science</i> , 2022 , 650, 120431 | 9.6 | o |