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A Critical Review on Thin-Film Nanocomposite Membranes with Interlayered Structure: Mechanisms, Recent Developments, and Environmental Applications

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187	Enhanced water permeance of a polyamide thin-film composite nanofiltration membrane with a metal-organic framework interlayer. 2021 , 625, 119154		12
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184	Nanovoid-Enhanced Thin-Film Composite Reverse Osmosis Membranes Using ZIF-67 Nanoparticles as a Sacrificial Template. 2021 , 13, 33024-33033		7
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182	Interlayered Forward Osmosis Membranes with TiCT MXene and Carbon Nanotubes for Enhanced Municipal Wastewater Concentration. <i>Environmental Science & Technology</i> , 2021 , 55, 13219-13230 ^{10.3}		4
181	High Permeance or High Selectivity? Optimization of System-Scale Nanofiltration Performance Constrained by the Upper Bound.		5
180	Recent advances of thin film nanocomposite membranes: Effects of shape/structure of nanomaterials and interfacial polymerization methods. 2021 , 172, 135-158		8
179	Advanced thin-film nanocomposite membranes embedded with organic-based nanomaterials for water and organic solvent purification: A review. 2021 , 269, 118719		9
178	Polyamide Nanofiltration Membranes with Enhanced Desalination and Antifouling Performance Enabled by Surface Grafting Polyquaternium-7.		1

177	Direct generation of an ultrathin (8.5 nm) polyamide film with ultrahigh water permeance via in-situ interfacial polymerization on commercial substrate membrane. 2021 , 634, 119450	11
176	Effects of reverse solute diffusion on membrane biofouling in pressure-retarded osmosis processes. 2021 , 512, 115145	3
175	A planned review on designing of high-performance nanocomposite nanofiltration membranes for pollutants removal from water. 2021 , 101, 78-125	11
174	High-hydrophilic and antifouling reverse osmosis membrane prepared based an unconventional radiation method for pharmaceutical plant effluent treatment. 2021 , 280, 119838	3
173	Crumple-textured polyamide membranes via MXene nanosheet-regulated interfacial polymerization for enhanced nanofiltration performance. 2021 , 635, 119536	12
172	Photocatalytic anti-biofouling performance of nanoporous ceramic membranes treated by atomic layer deposited ZnO. 2021 , 272, 118935	7
171	Facile ZIF8 nanocrystals interlayered solvent-resistant thin film nanocomposite membranes for enhanced solvent permeance and rejection. 2021 , 636, 119586	5
170	Improving properties of thin film nanocomposite membrane through polyethyleneimine intermediate layer: A parametric study. 2021 , 274, 119035	2
169	Conductive polyethersulfone membrane facilely prepared by simultaneous phase inversion method for enhanced anti-fouling and separation under low driven-pressure. 2021 , 297, 113363	1
168	Fabrication of defect-free thin-film nanocomposite (TFN) membranes for reverse osmosis desalination. 2021 , 516, 115230	10
167	Manipulating interfacial polymerization for polymeric nanofilms of composite separation membranes. 2021 , 122, 101450	9
166	Fabrication of high performance nanofiltration membranes based on the interfacial polymerization regulated by the incorporation of dextran nanoparticles. 2021 , 519, 115308	3
165	Multilayer assembly of thin-film nanocomposite membranes with enhanced NaCl and antibiotic rejection. 2021 , 517, 115261	2
164	Tailored thin film nanocomposite membrane incorporated with Noria for simultaneously overcoming the permeability-selectivity trade-off and the membrane fouling in nanofiltration process. 2021 , 640, 119863	8
163	High-Performance Thin-Film nanocomposite forward osmosis membranes modified with Poly(dopamine) coated UiO66-(COOH) ₂ . 2021 , 277, 119438	2
162	A critical review on porous substrates of TFC polyamide membranes: Mechanisms, membrane performances, and future perspectives. 2022 , 641, 119871	28
161	Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. 2021 , 23, 1013-1025	6
160	In Situ Assembly of Polyamide/Fe(BTC) Nanocomposite Reverse Osmosis Membrane Assisted by Fe-Polyphenolic Complex for Desalination. 2021 , 13, 48679-48690	3

159	2D Material Nanofiltration Membranes: From Fundamental Understandings to Rational Design. 2021 , 8, e2102493	6
158	Designed water channels and sieving effect for heavy metal removal by a novel silica-poly(ionic liquid) nanoparticles TFN membrane. 2022 , 641, 119945	2
157	A new strategy to accelerate co-deposition of plant polyphenol and amine for fabrication of antibacterial nanofiltration membranes by in-situ grown Ag nanoparticles. 2022 , 280, 119866	10
156	Omnifarious performance promotion of the TFC NF membrane prepared with hyperbranched polyester intervened interfacial polymerization. 2022 , 642, 119984	4
155	Mechanism insights into the role of the support mineralization layer toward ultrathin polyamide nanofilms for ultrafast molecular separation.	8
154	PES mixed-matrix ultrafiltration membranes incorporating ZIF-8 and poly(ionic liquid) by microemulsion synthetic with flux and antifouling properties. 2021 , 151815	1
153	Nanofiltration for drinking water treatment: a review. 2021 , 1-18	8
152	Preparation of advanced reverse osmosis membrane by a wettability-transformable interlayer combining with N-acyl imidazole chemistry. 2021 , 644, 120085	1
151	Toward Enhancing Desalination and Heavy Metal Removal of TFC Nanofiltration Membranes: A Cost-Effective Interface Temperature-Regulated Interfacial Polymerization. 2021 , 13, 57998-58010	5
150	Second interfacial polymerization decorating defects of TFC NF membrane formed by 1D nanochannels for improving separation performance. 2021 , 10, 106896	0
149	Tailored design of nanofiltration membranes for water treatment based on synthesis-property-performance relationships.. 2021 ,	19
148	Ag-based nanocapsule-regulated interfacial polymerization Enables synchronous nanostructure towards high-performance nanofiltration membrane for sustainable water remediation. 2022 , 645, 120196	3
147	Novel Poly(piperazinamide)/poly(m-phenylene isophthalamide) composite nanofiltration membrane with polydopamine coated silica as an interlayer for the splendid performance. 2022 , 285, 120390	2
146	Ultrapermearable nanofiltration membranes with tunable selectivity fabricated with polyaniline nanofibers.	1
145	Review of Thin Film Nanocomposite Membranes and Their Applications in Desalination.. 2022 , 10, 781372	2
144	Facile fabrication of polyethyleneimine interlayer-assisted graphene oxide incorporated reverse osmosis membranes for water desalination. 2022 , 526, 115502	1
143	Thin-film nanocomposite reverse osmosis membranes incorporated with citrate-modified layered double hydroxides (LDHs) for brackish water desalination and boron removal. 2022 , 527, 115583	3
142	Effect of synthesis conditions on the non-uniformity of nanofiltration membrane pore size distribution. 2022 , 647, 120304	2

141	Carbon Nanotube Interlayer Enhances Water Permeance and Antifouling Performance of Nanofiltration Membranes: Mechanisms and Experimental Evidence.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	4
140	Electrochemical Probing of Steric, Electrostatic and Hydrophobic Interactions of Large Cations in Polymers of Intrinsic Microporosity.		1
139	Significant roles of substrate properties in forward osmosis membrane performance: A review. 2022 , 528, 115615		5
138	Outstanding Anti-Bacterial Thin-Film Composite Membrane Prepared by Incorporating Ag-Mof for Water Treatment.		
137	Design of nanofibre interlayer supported forward osmosis composite membranes and its evaluation in fouling study with cleaning. 2022 , 16, 1		0
136	Deciphering the Role of Amine Concentration on Polyamide Formation toward Enhanced RO Performance.		2
135	Advancing Strategies of Biofouling Control in Water-Treated Polymeric Membranes.. 2022 , 14,		1
134	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse.		4
133	Ultrathin Membranes for Separations: A New Era Driven by Advanced Nanotechnology.. 2022 , e2108457		1
132	Thin-film composite membranes with programmable in-plane heterostructure for high degree-of-freedom performance control. 2022 , 120522		1
131	Nanofiltration membranes with enhanced performance by constructing an interlayer integrated with dextran nanoparticles and polyethyleneimine coating. 2022 , 120537		1
130	The role of medium molecular weight organics on reducing disinfection by-products and fouling prevention in nanofiltration.. 2022 , 215, 118263		3
129	MXenes and other 2D nanosheets for modification of polyamide thin film nanocomposite membranes for desalination. 2022 , 289, 120777		3
128	Cost-effective polymer-based membranes for drinking water purification. 2022 , 10, 100099		0
127	Probing the influence of shape and loading of CeO ₂ nanoparticles on the separation performance of thin-film nanocomposite membranes with an interlayer. 2022 , 291, 120930		0
126	Layer-by-layer aided Cyclodextrin nanofilm for precise organic solvent nanofiltration. 2022 , 652, 120466		2
125	Construction of novel maple leaf-like MnO ₂ @BiO ₂ @PDA composites for highly efficient removal of Cu(II), Cd(II) and Ni(II) from aqueous solution. 2022 , 291, 120943		0
124	Seawater battery desalination with sodium-intercalation cathode for hypersaline water treatment. 2022 , 531, 115713		0

123	Aminated substrate based thin film composite nanofiltration membrane with high separation performance by chemically inhibiting the intrusion of polyamide. 2022 , 532, 115724	1
122	Fabrication of organic solvent nanofiltration membrane using commercial PVDF substrate via interfacial polymerization on top of metal-organic frameworks interlayer. 2022 , 652, 120465	1
121	Outstanding anti-bacterial thin-film composite membrane prepared by incorporating silver-based metal-organic framework (Ag-MOF) for water treatment. 2022 , 590, 153059	2
120	Revolutionizing Membrane Design Using Machine Learning-Bayesian Optimization.. <i>Environmental Science & Technology</i> , 2021 ,	10.3 2
119	Sustainable membranes with FNs: Current and emerging research trends. 2022 , 159-183	1
118	MoS ₂ @PDA thin-film nanocomposite nanofiltration membrane for simultaneously improved permeability and selectivity. 2022 , 107697	0
117	The Intrinsic Parameters of the Polyamide Nanofilm in Thin-Film Composite Reverse Osmosis (TFC-RO) Membranes: The Impact of Monomer Concentration.. 2022 , 12,	1
116	Amino-embedded carbon quantum dots incorporated thin-film nanocomposite membrane for desalination by pervaporation. 2022 , 533, 115742	2
115	In situ assembled zeolite imidazolate framework nanocrystals hybrid thin film nanocomposite membranes for brackish water desalination. 2022 , 293, 121134	0
114	High performance electrospun thin-film composite forward osmosis membrane by tailoring polyamide active layer with polydopamine interlayer for desulfurization wastewater desalination. 2022 , 534, 115781	0
113	Cu ²⁺ /alginate nanofiltration membranes fabricated at the aqueous contra-diffusion interface for salt/dye rejection. 2022 , 535, 115806	0
112	The coming of age of water channels for separation membranes: from biological to biomimetic to synthetic.. 2022 ,	1
111	Crumpled Globule-Heterotextured Polyamide Membrane Interlayered with Protein-Polyphenol Nanoaggregates for Enhanced Forward Osmosis Performance.. 2022 ,	1
110	Photocatalytic nanohybrid membranes for highly efficient wastewater treatment: A comprehensive review. 2022 , 317, 115357	1
109	Removal of emerging organic micropollutants via modified-reverse osmosis/nanofiltration membranes: A review. 2022 , 135151	1
108	Intentional Fouling Enabled In Situ Healing of Compromised Reverse Osmosis Membranes for Desalination and Water Purification.	
107	Humic Acid Modified Selective Nanofiltration Membrane for Efficient Separation of PFASs and Mineral Salts.	0
106	Anti(-bio)fouling Nanostructured Membranes Based on the Cross-Linked Assembly of Stimuli-Responsive Zwitterionic Microgels.	1

- 105 Dissecting the structure-property relationship of ceramic membrane with asymmetric multilayer structures for maximizing permselectivity. **2022**, 220, 118658 0
- 104 Thiol/Nitrogen Functionalized Fe₃O₄@Zif-8-Dmtd by One-Pot Post Coordination Modulation for Efficient and Rapid Removal of Trace Heavy Metals from Drinking Water.
- 103 In Situ Chemical Modification with Zwitterionic Copolymers of Nanofiltration Membranes: Cure for the Trade-Off between Filtration and Antifouling Performance. 0
- 102 Vacuum-assisted MPD loading toward promoted nanoscale structure and enhanced water permeance of polyamide RO membrane. **2022**, 297, 121547 0
- 101 Tailored nanofiltration membranes with enhanced permeability and antifouling performance towards leachate treatment. **2022**, 658, 120730 0
- 100 High-Precision and High-Flux Separation by Rationally Designing the Nanochannels and Surface Nanostructure of Polyamide Nanofiltration Membranes. **2022**, 2, 2200026 0
- 99 Elucidating the Roles of Polyamide Layer Structural Properties in the Permeability Selectivity Tradeoff Governing Aqueous Separations. 0
- 98 Super-hydrophilic nanofiber substrate supported forward osmosis membrane with less polyamide layer defects by polydopamine-graphene oxide modification for high salinity desulfurization wastewater desalination. **2022**, 659, 120767 0
- 97 Highly permeable and acid-resistant nanofiltration membrane fabricated by in-situ interlaced stacking of COF and polysulfonamide films. **2022**, 450, 137965 1
- 96 Development of high strength potato starch nanocomposite films with excellent UV-blocking performance: Effect of heat moisture treatment synergistic with ligninsulfonic acid. **2022**, 187, 115327 0
- 95 A Multifunctional Heterogeneous Superwetable Coating for Water Collection, Oil/Water Separation and Oil Absorption.
- 94 Modeling Water Transport in Interlayered Thin-Film Nanocomposite Membranes: Gutter Effect vs Funnel Effect. 2
- 93 Loosely Sandwich-Structured Membranes Decorated with UiO-66-NH₂ for Efficient Antibiotic Separation and Organic Solvent Resistance. 0
- 92 Polyamide composite nanofiltration membrane modified by nanoporous TiO₂ interlayer for enhanced water permeability. **2022**, 1 0
- 91 Nanocomposite Polymeric Membranes for Organic Micropollutant Removal: A Critical Review. 1
- 90 In-situ sol-gel generation of SiO₂ nanoparticles inside polyamide membrane for enhanced nanofiltration. **2022**, 540, 115981 0
- 89 Cavitating substrates to boost water permeance of reverse osmosis membranes. **2022**, 299, 121810 0
- 88 Polyamide membranes with a ZIF-8@Tannic acid core-shell nanoparticles interlayer to enhance nanofiltration performance. **2022**, 541, 116042 1

87	Hierarchical hollow zeolite fiber in catalytic applications: A critical review. 2022 , 307, 135899	1
86	Effect of the interlayer construction on the performances of the TFC-FO membranes: A review from materials perspective. 2022 , 541, 116033	0
85	Enhancing the NaCl/Na ₂ SO ₄ separation selectivity and chlorine resistance of nanofiltration membranes by incorporating novel designed starch nanoparticles. 2022 , 604, 154417	0
84	Dissecting the role of membrane defects with low-energy barrier on fouling development through A collision Attachment-Monte Carlo approach. 2022 , 120981	1
83	Interlayered thin-film nanocomposite membrane with synergetic effect of COFs interlayer and GQDs incorporation for organic solvent nanofiltration. 2022 , 662, 120930	0
82	A critical review on thin-film nanocomposite membranes enabled by nanomaterials incorporated in different positions and with diverse dimensions: Performance comparison and mechanisms. 2022 , 661, 120952	2
81	The role of driving force directions of preparation in microstructure and performance of graphene oxide membranes. 2022 , 26, 101177	0
80	Ultra-Hydrophilic Layered Titanate Nanosheet-Based Nanofiltration Membrane with Ultrafast Water Transport for Low Energy Consumption Desalination.	0
79	Polycarbonate/polyvinyl alcohol thin film nanocomposite membrane incorporated with silver nanoparticles for water treatment.	0
78	Synthesis and Polyelectrolyte Functionalization of Hollow Fiber Membranes Formed by Solvent Transfer Induced Phase Separation. 2022 , 14, 43195-43206	0
77	Fabrication of Loose Nanofiltration Membranes with High Rejection Selectivity between Natural Organic Matter and Salts for Drinking Water Treatment. 2022 , 12, 887	0
76	Hybrid Dimensional MXene/CNC Framework-Regulated Nanofiltration Membrane with High Separation Performance.	0
75	Nanofiltration Membranes with Crumpled Polyamide Films: A Critical Review on Mechanisms, Performances, and Environmental Applications. 2022 , 56, 12811-12827	3
74	Poly(piperazine-amide) nanofiltration membrane with innate positive charge for enhanced bivalent cation rejection and mono/bivalent cation selectivity. 2022 , 121060	0
73	Thiol/nitrogen functionalized Fe ₃ O ₄ @ZIF-8-DMTD by one-pot post coordination modulation for efficient and rapid removal of trace heavy metals from drinking water. 2022 , 49, 103189	0
72	2D COFs interlayer manipulated interfacial polymerization for fabricating high performance reverse osmosis membrane. 2022 , 303, 122198	0
71	pH-regulated interfacially polymerized nanofiltration membranes to achieve high separation of NOM and moderate desalination for purifying ground water. 2022 , 544, 116148	0
70	Regulating interfacial polymerization via constructed 2D metal-organic framework interlayers for fabricating nanofiltration membranes with enhanced performance. 2022 , 544, 116134	0

69	Ultra-hydrophilic layered titanate nanosheet-based nanofiltration membrane with ultrafast water transport for low energy consumption desalination. 2022 , 544, 116144	0
68	Facilitated transport membranes for CO ₂ /CH ₄ separation - State of the art. 2022 , 2, 100040	1
67	Post-synthetic modification of MOFs to enhance interfacial compatibility and selectivity of thin-film nanocomposite (TFN) membranes for water purification. 2022 , 121133	0
66	Exploration of Permeation Resistance Change of the Polyamide Nanofiltration Membrane during Heat Curing by Using Organic Molecules as Functional Fillers.	0
65	Enhanced water permeance and EDCs rejection using a UiO-66-NH ₂ -predeposited polyamide membrane. 2022 , 137114	0
64	Layer-by-layer assembly of alginate/Ca ²⁺ as interlayer on microfiltration substrate: Fabrication of high selective thin-film composite forward osmosis membrane for efficient heavy metal ions removal. 2022 , 188, 564-574	1
63	Improving properties of thin film nanocomposite membrane via temperature-controlled interfacial polymerization for nanofiltration process. 2023 , 545, 116091	0
62	Effective regulating interfacial polymerization process of OSN membrane via in-situ constructed nano-porous interlayer of 2D Tphz covalent organic frameworks. 2023 , 665, 121101	1
61	Poly(caffeic acid) as interlayer to enhance nanofiltration performance of polyamide composite membrane. 2023 , 545, 116168	0
60	A multifunctional heterogeneous superwetttable coating for water collection, oil/water separation and oil absorption. 2023 , 443, 130166	0
59	Fabrication of amino-alcohol based polyesteramide thin film composite membranes for nanofiltration. 2023 , 305, 122547	0
58	In-situ growth of layered double hydroxides (LDHs) onto thin-film composite membranes for enhanced reverse osmosis performance. 2023 , 547, 116235	0
57	A Concise Review of Theoretical Models and Numerical Simulations of Membrane Fouling. 2022 , 14, 3537	1
56	Advanced Thin-Film Composite Polyamide Membrane for Precise Trace short-chain PFAS Sieving: Solution, Environment and Fouling Effects. 2022 ,	0
55	Engineering metal-organic frameworks (MOFs) based thin-film nanocomposite (TFN) membranes for molecular separation. 2022 , 140447	1
54	Organic-inorganic double networks as highly permeable separation membranes with a chiral selector for organic solvents. 2022 , 121190	1
53	Boosting the Performance of Nanofiltration Membranes in Removing Organic Micropollutants: Trade-Off Effect, Strategy Evaluation, and Prospective Development. 2022 , 56, 15220-15237	2
52	Efficient capture of endocrine-disrupting compounds by a high-performance nanofiltration membrane for wastewater treatment. 2022 , 227, 119322	0

- 51 Recent advances in thin film nanocomposite membranes containing an interlayer (TFNi): fabrication, applications, characterization and perspectives. **2022**, 12, 34245-34267 ○
- 50 Microbial deposition and growth on polyamide reverse osmosis membrane surfaces: Mechanisms, impacts, and potential cures. **2023**, 548, 116301 ○
- 49 Nanorod-interlayered thin film composite membranes for ultrafast nanofiltration. **2023**, 548, 116255 ○
- 48 Highly anions-selective polyamide nanofiltration membrane fabricated by rod-coating assisted interfacial polymerization. **2023**, 668, 121273 ○
- 47 Tailored ultra-low pressure nanofiltration membranes for advanced drinking water treatment. **2023**, 548, 116264 ○
- 46 Highly permeable positively charged nanofiltration membranes with multilayer structures for multiple heavy metal removals. **2023**, 548, 116266 1
- 45 Diazotized polyamide membranes on commercial polyethylene textile with simultaneously improved water permeance, salt rejections and anti-fouling. **2023**, 549, 116307 ○
- 44 Graphene Quantum Dot-Added Thin-Film Composite Membrane with Advanced Nanofibrous Support for Forward Osmosis. **2022**, 12, 4154 1
- 43 Molecular Design of the Polyamide Layer Structure of Nanofiltration Membranes by Sacrificing Hydrolyzable Groups toward Enhanced Separation Performance. **2022**, 56, 17955-17964 ○
- 42 Investigating the effect of PAMAM-G2 nanostructures dendrimer on the performance of polycarbonate thin film nanocomposite membranes for water treatment. ○
- 41 Nanofibrous/biopolymeric membrane a sustainable approach to remove organic micropollutants: A review. **2022**, 137663 ○
- 40 Enhanced Separation Performance of Polyamide Thin-Film Nanocomposite Membranes with Interlayer by Constructed Two-Dimensional Nanomaterials: A Critical Review. **2022**, 12, 1250 ○
- 39 Demystifying the Role of Surfactant in Tailoring Polyamide Morphology for Enhanced Reverse Osmosis Performance: Mechanistic Insights and Environmental Implications. ○
- 38 Self-Assembly in Matrix-Free Functionalized Boron Nitride Sheets as Free-Standing Thin Film Sieves for Stable Forward Osmosis and Robust Dye Removal Applications. 2200385 ○
- 37 Advanced Mg²⁺/Li⁺ separation nanofiltration membranes by introducing hydroxypropyltrimethyl ammonium chloride chitosan as a co-monomer. **2023**, 156434 ○
- 36 Effect of surface grafting with quaternized carbon quantum dots on nanofiltration membrane removing contaminants from micro-polluted river water. **2023**, 11, 109244 ○
- 35 Enhancing the desalination performance of polyamide nanofiltration membranes via in-situ incorporation of zwitterionic nanohydrogel. **2023**, 549, 116355 ○
- 34 Thin film composite nanofiltration membrane with nanocluster structure mediated by graphene oxide/metal-polyphenol nanonetwork scaffold interlayer. **2023**, 669, 121330 ○

- 33 Effect of phase disparity of MoS₂ nanosheets on the performance of PES membranes for dual industrial oil-in-water emulsion separation and dyes adsorption. **2023**, 171, 55-70 ○
- 32 Progress in membranes for pressure retarded osmosis application. **2023**, 549, 116347 ○
- 31 Fabrication of hollow fiber nanofiltration membrane with high permselectivity based on Co-deposition, biomineralization and dual cross-linking process. **2023**, 670, 121388 ○
- 30 A comprehensive evaluation of PVA enhanced polyamide nanofiltration membranes: Additive versus interlayer. **2023**, 660, 130870 ○
- 29 Regulating interfacial polymerization via a multi-functional calcium carbonate based interlayer for a highly permselective nanofiltration membrane. ○
- 28 Gas Transport Mechanisms through Molecular Thin Carbon Nanomembranes. ○
- 27 Thin film composite nanofiltration membrane with tannic acid-Fe(III) complexes functionalized CNTs interlayer toward energy efficient remediation of groundwater. **2023**, 552, 116438 ○
- 26 Sustainable nanocomposite porous absorbent and membrane sieves: Definition, classification, history, properties, synthesis, applications, and future prospects. **2023**, 11, 109367 ○
- 25 Additive manufacturing of defect-healing polyamide membranes for fast and robust desalination. **2023**, 671, 121407 ○
- 24 Sulfonated polyaniline interlayer with controllable doping conditions for high-performance nanofiltration. **2023**, 672, 121478 ○
- 23 Removal of arsenic from water using a CuBTC incorporated thin film nanocomposite hollow fiber membrane by interfacial polymerization on lumen side. **2023**, 52, 103587 ○
- 22 Tailoring properties and performance of thin-film composite membranes by salt additives for water treatment: A critical review. **2023**, 234, 119821 ○
- 21 Making waves: Why do we need ultra-permeable nanofiltration membranes for water treatment?. **2023**, 19, 100172 ○
- 20 Fabrication of novel thin-film nanocomposite polyamide membrane by the interlayer approach: A review. **2023**, 554, 116509 ○
- 19 Nanocomposite substrate-supported nanofiltration membrane for efficient treatment of rare earth wastewater. **2023**, 18, 101040 ○
- 18 Polyvinyl alcohol/attapulgite interlayer modulated interfacial polymerization on a highly porous PAN support for efficient desalination. **2023**, 675, 121517 ○
- 17 Bird's nest -inspired fabrication of ZIF-8 interlayer for organic solvent nanofiltration membranes. **2023**, 675, 121520 ○
- 16 Modeling nanovoid-enhanced water permeance of thin film composite membranes. **2023**, 675, 121555 ○

- 15 In situ assembly of graphitic carbon nitride/polypyrrole in a thin-film nanocomposite membrane with highly enhanced permeability and durability. **2023**, 555, 116566 ○
- 14 Hydrogel-regulated interfacial polymerization: A gateway to effective nanostructure tuning of polyamide nanofiltration membranes. **2023**, 556, 116593 ○
- 13 Polyamide layer modulation for PA-TFC membranes Optimization: Developments, Mechanisms, and implications. **2023**, 311, 123200 ○
- 12 Correlating the role of nanofillers with active layer properties and performance of thin-film nanocomposite membranes. **2023**, 550, 116370 ○
- 11 Roles and gains of coordination chemistry in nanofiltration membrane: A review. **2023**, 318, 137930 ○
- 10 Fabrication of polyamide membranes by interlayer-assisted interfacial polymerization method with enhanced organic solvent nanofiltration performance. **2023**, 663, 131075 ○
- 9 Ultrafast loose nanofiltration membrane intercalated by in-situ grown nanoparticles for dye purification and reuse. **2023**, 551, 116439 ○
- 8 Preparation of high flux organic solvent nanofiltration membrane based on polyimide/Noria composite ultrafiltration membrane. **2023**, 618, 156650 ○
- 7 Nanofoaming by surfactant tunes morphology and performance of polyamide nanofiltration membrane. **2023**, 552, 116457 ○
- 6 Reverse osmosis (RO) membrane development and industrial applications. **2023**, 411-435 ○
- 5 The Veiled Impacts of H⁺ on Interfacial Polymerization and Its Effects on Nanofiltration Performance. **2023**, 10, 274-279 ○
- 4 Imparting Outstanding Dispersibility to Nanoscaled 2D COFs for Constructing Organic Solvent Forward Osmosis Membranes. 2300456 ○
- 3 Fabrication of novel thin-film composite membrane based on ultrathin metal-organic framework interlayer for enhancing forward osmosis performance. **2023**, 108369 ○
- 2 Retarding the diffusion rate of piperazine through the interface of aqueous/organic phase: Bis-tris propane tuned the trans-state of ultra-low concentration piperazine. **2023**, 677, 121627 ○
- 1 Deciphering the role of polyketone substrates in tuning the structure and properties of polyamide nanofiltration membranes. **2023**, 121687 ○