

# Tannic Acid/Fe<sup>3+</sup> Nanoscaffold for Interfacial Enhanced Nanofiltration Performance

Environmental Science & Technology

52, 9341-9349

DOI: 10.1021/acs.est.8b02425

Citation Report

#	ARTICLE	IF	CITATIONS
1	Fabrication of advanced nanofiltration membranes with nanostrand hybrid morphology mediated by ultrafast Noriaâ€“polyethyleneimine codeposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21207-21215.	5.2	105
2	Potable Water Reuse through Advanced Membrane Technology. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10215-10223.	4.6	363
3	Ultra-permeable polyamide membranes harvested by covalent organic framework nanofiber scaffolds: a two-in-one strategy. <i>Chemical Science</i> , 2019, 10, 9077-9083.	3.7	108
4	Nanofibrous hydrogel composite membranes with ultrafast transport performance for molecular separation in organic solvents. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19269-19279.	5.2	90
5	Rapid co-deposition of graphene oxide incorporated metal-phenolic network/piperazine followed by crosslinking for high flux nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019, 588, 117203.	4.1	26
6	The upper bound of thin-film composite (TFC) polyamide membranes for desalination. <i>Journal of Membrane Science</i> , 2019, 590, 117297.	4.1	381
7	Thin-film composite membranes with aqueous template-induced surface nanostructures for enhanced nanofiltration. <i>Journal of Membrane Science</i> , 2019, 589, 117244.	4.1	165
8	New Insights into the Role of an Interlayer for the Fabrication of Highly Selective and Permeable Thin-Film Composite Nanofiltration Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7349-7356.	4.0	234
9	Highly permeable and highly selective ultrathin film composite polyamide membranes reinforced by reactable polymer chains. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 418-425.	5.0	24
10	MOF-positioned polyamide membranes with a fishnet-like structure for elevated nanofiltration performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16313-16322.	5.2	166
11	Novel thinâ€“film nanocomposite membrane with waterâ€“soluble polyhydroxylated fullerene for the separation of Mg <sup>2+</sup> /Li <sup>+</sup> aqueous solution. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48029.	1.3	40
12	High flux thin film nanocomposite membranes based on porous organic polymers for nanofiltration. <i>Journal of Membrane Science</i> , 2019, 585, 19-28.	4.1	110
13	Development of microporous substrates of polyamide thin film composite membranes for pressure-driven and osmotically-driven membrane processes: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 25-59.	2.9	90
14	Ultrathin Polyamide Nanofiltration Membrane Fabricated on Brush-Painted Single-Walled Carbon Nanotube Network Support for Ion Sieving. <i>ACS Nano</i> , 2019, 13, 5278-5290.	7.3	268
15	Graphene oxide (GO)-interlayered thin-film nanocomposite (TFN) membranes with high solvent resistance for organic solvent nanofiltration (OSN). <i>Journal of Materials Chemistry A</i> , 2019, 7, 13315-13330.	5.2	86
16	Hydrophilic Silver Nanoparticles Induce Selective Nanochannels in Thin Film Nanocomposite Polyamide Membranes. <i>Environmental Science &amp; Technology</i> , 2019, 53, 5301-5308.	4.6	190
17	Bioinspired Metalâ€“Polyphenol Materials: Self-Healing and Beyond. <i>Biomimetics</i> , 2019, 4, 30.	1.5	43
18	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.	4.1	41

#	ARTICLE	IF	CITATIONS
19	Fabrication of high performance nanofiltration membrane on a coordination-driven assembled interlayer for water purification. Separation and Purification Technology, 2020, 235, 116192.	3.9	43
20	Resorcinol-formaldehyde nanobowls modified thin film nanocomposite membrane with enhanced nanofiltration performance. Journal of Membrane Science, 2020, 594, 117468.	4.1	42
21	Manufacturing Nanoporous Materials for Energy-Efficient Separations. , 2020, , 33-81.		8
22	Manipulating the mussel-inspired co-deposition of tannic acid and amine for fabrication of nanofiltration membranes with an enhanced separation performance. Journal of Colloid and Interface Science, 2020, 565, 23-34.	5.0	87
23	High-performance thin film nanocomposite membranes enabled by nanomaterials with different dimensions for nanofiltration. Journal of Membrane Science, 2020, 596, 117717.	4.1	86
24	Applications of tannic acid in membrane technologies: A review. Advances in Colloid and Interface Science, 2020, 284, 102267.	7.0	181
25	A Critical Review on Thin-Film Nanocomposite Membranes with Interlayered Structure: Mechanisms, Recent Developments, and Environmental Applications. Environmental Science & Technology, 2020, 54, 15563-15583.	4.6	308
26	Asymmetric polyamide nanofilms with highly ordered nanovoids for water purification. Nature Communications, 2020, 11, 6102.	5.8	146
27	Effect of Porous and Nonporous Nanostructures on the Permeance of Positively Charged Nanofilm Composite Membranes. Advanced Materials Interfaces, 2020, 7, 2000251.	1.9	12
28	Immobilization of sulfonated polysulfone via 2D LDH nanosheets during phase-inversion: A novel strategy towards greener membrane synthesis and enhanced desalination performance. Journal of Membrane Science, 2020, 614, 118508.	4.1	23
29	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. Environmental Science & Technology, 2020, 54, 11611-11621.	4.6	137
30	Toward tailoring nanofiltration performance of thin-film composite membranes: Novel insights into the role of poly(vinyl alcohol) coating positions. Journal of Membrane Science, 2020, 614, 118526.	4.1	65
31	Tuning the Surface Structure of Polyamide Membranes Using Porous Carbon Nitride Nanoparticles for High-Performance Seawater Desalination. Membranes, 2020, 10, 163.	1.4	12
32	AEL Zeolite Nanosheet-Polyamide Nanocomposite Membranes on $\gamma$ -Alumina Hollow Fibers with Enhanced Pervaporation Properties. Industrial & Engineering Chemistry Research, 2020, 59, 14789-14796.	1.8	5
33	Nanofiltration for Decolorization: Membrane Fabrication, Applications and Challenges. Industrial & Engineering Chemistry Research, 2020, 59, 19858-19875.	1.8	36
34	Metal-Organic Framework Nanosheets for Thin-Film Composite Membranes with Enhanced Permeability and Selectivity. ACS Applied Nano Materials, 2020, 3, 9238-9248.	2.4	57
35	Covalent Organic Framework Nanosheets as Reactive Fillers To Fabricate Free-Standing Polyamide Membranes for Efficient Desalination. ACS Applied Materials & Interfaces, 2020, 12, 27777-27785.	4.0	62
36	Dissecting the Role of Substrate on the Morphology and Separation Properties of Thin Film Composite Polyamide Membranes: Seeing Is Believing. Environmental Science & Technology, 2020, 54, 6978-6986.	4.6	123

#	ARTICLE	IF	CITATIONS
37	Engineering a Nanocomposite Interlayer for a Novel Ceramic-Based Forward Osmosis Membrane with Enhanced Performance. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7715-7724.	4.6	63
38	One-step cross-linking and tannic acid modification of polyacrylonitrile hollow fibers for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2020, 610, 118294.	4.1	36
39	High-flux robust ceramic membranes functionally decorated with nano-catalyst for emerging micro-pollutant removal from water. <i>Journal of Membrane Science</i> , 2020, 611, 118281.	4.1	47
40	Emerging sandwich-like reverse osmosis membrane with interfacial assembled covalent organic frameworks interlayer for highly-efficient desalination. <i>Journal of Membrane Science</i> , 2020, 604, 118065.	4.1	69
41	Fabrication of thin film-PEI nanofiltration membrane with promoted separation performances: Cr, Pb and Cu ions removal from water. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	25
42	How to fabricate a negatively charged NF membrane for heavy metal removal via the interfacial polymerization between PIP and TMC?. <i>Desalination</i> , 2020, 491, 114499.	4.0	88
43	Ultrathin polyamide nanofilm with an asymmetrical structure: A novel strategy to boost the permeance of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020, 612, 118402.	4.1	17
44	Ultrafast Ion Sieving from Honeycomb-like Polyamide Membranes Formed Using Porous Protein Assemblies. <i>Nano Letters</i> , 2020, 20, 5821-5829.	4.5	46
45	Fabrication of high performance TFN membrane containing NH <sub>2</sub> -SWCNTs via interfacial regulation. <i>RSC Advances</i> , 2020, 10, 25186-25199.	1.7	14
46	Immobilization of ferric tannate on wood fibers to functionalize wood fibers/diphenylmethane di-isocyanate composites. <i>Industrial Crops and Products</i> , 2020, 154, 112753.	2.5	14
47	Constructing interlayer to tailor structure and performance of thin-film composite polyamide membranes: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 282, 102204.	7.0	154
48	Application of diazonium-induced anchoring process on ultrafiltration substrate for the fabrication of nanofiltration membrane with enhanced desalination performance. <i>Desalination</i> , 2020, 496, 114340.	4.0	20
49	Amine-functionalized ZIF-8 nanoparticles as interlayer for the improvement of the separation performance of organic solvent nanofiltration (OSN) membrane. <i>Journal of Membrane Science</i> , 2020, 614, 118433.	4.1	43
50	Intrinsic Nanoscale Structure of Thin Film Composite Polyamide Membranes: Connectivity, Defects, and Structure-Property Correlation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3559-3569.	4.6	135
51	Electrosprayed polyamide nanofiltration membrane with intercalated structure for controllable structure manipulation and enhanced separation performance. <i>Journal of Membrane Science</i> , 2020, 602, 117971.	4.1	68
52	Ultrathin Membranes: A New Opportunity for Ultrafast and Efficient Separation. <i>Advanced Materials Technologies</i> , 2020, 5, 1901069.	3.0	37
53	Mesoporous Silica Thin Membrane with Tunable Pore Size for Ultrahigh Permeation and Precise Molecular Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7459-7465.	4.0	21
54	Thin-film nanocomposite nanofiltration membrane with an ultrathin polyamide/UIO-66-NH <sub>2</sub> active layer for high-performance desalination. <i>Journal of Membrane Science</i> , 2020, 600, 117874.	4.1	89

#	ARTICLE	IF	CITATIONS
55	Tannic acid assisted interfacial polymerization based loose thin-film composite NF membrane for dye/salt separation. <i>Desalination</i> , 2020, 479, 114343.	4.0	126
56	Toward enhancing the separation and antifouling performance of thin-film composite nanofiltration membranes: A novel carbonate-based preoccupation strategy. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 155-165.	5.0	47
57	Superior nanofiltration membranes with gradient cross-linked selective layer fabricated via controlled hydrolysis. <i>Journal of Membrane Science</i> , 2020, 604, 118067.	4.1	58
58	Electrosprayed polydopamine membrane: Surface morphology, chemical stability and separation performance study. <i>Separation and Purification Technology</i> , 2020, 244, 116857.	3.9	26
59	Ultrathin Thin-Film Composite Polyamide Membranes Constructed on Hydrophilic Poly(vinyl alcohol) Decorated Support Toward Enhanced Nanofiltration Performance. <i>Environmental Science &amp; Technology</i> , 2020, 54, 6365-6374.	4.6	168
60	Interfacial coordination mediated surface segregation of halloysite nanotubes to construct a high-flux antifouling membrane for oil-water emulsion separation. <i>Journal of Membrane Science</i> , 2021, 620, 118828.	4.1	52
61	Polyamide reverse osmosis membranes containing 1D nanochannels for enhanced water purification. <i>Journal of Membrane Science</i> , 2021, 618, 118681.	4.1	37
62	Stainless steel mesh supported thin-film composite nanofiltration membranes for enhanced permeability and regeneration potential. <i>Journal of Membrane Science</i> , 2021, 618, 118738.	4.1	28
63	Liposomes-assisted fabrication of high performance thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , 2021, 620, 118833.	4.1	28
64	Plant polyphenol intermediated metal-organic framework (MOF) membranes for efficient desalination. <i>Journal of Membrane Science</i> , 2021, 618, 118726.	4.1	94
65	High-throughput thin-film composite membrane via interfacial polymerization using monomers of ultra-low concentration on tannic acid "Copper interlayer for organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2021, 258, 118027.	3.9	38
66	Recent advances in high-performance TFC membranes: A review of the functional interlayers. <i>Desalination</i> , 2021, 500, 114869.	4.0	127
67	Rapid in-situ covalent crosslinking to construct a novel azo-based interlayer for high-performance nanofiltration membrane. <i>Separation and Purification Technology</i> , 2021, 258, 118029.	3.9	33
68	Electrospun transition layer that enhances the structure and performance of thin-film nanofibrous composite membranes. <i>Journal of Membrane Science</i> , 2021, 620, 118927.	4.1	20
69	Recent development of pressure retarded osmosis membranes for water and energy sustainability: A critical review. <i>Water Research</i> , 2021, 189, 116666.	5.3	40
70	Polyethylene Coated with MnO <sub>2</sub> Nanoparticles as Thin Film Composite Membranes for Organic Solvent Nanofiltration. <i>ACS Applied Nano Materials</i> , 2021, 4, 2768-2782.	2.4	29
71	Molecularly soldered covalent organic frameworks for ultrafast precision sieving. <i>Science Advances</i> , 2021, 7, .	4.7	185
72	Fabrication of Antiswelling Loose Nanofiltration Membranes via a "Selective-Etching-Induced Reinforcing" Strategy for Bioseparation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19312-19323.	4.0	14

#	ARTICLE	IF	CITATIONS
73	Facile and rapid assembly of high-performance tannic acid thin-film nanofiltration membranes via Fe <sup>3+</sup> -intermediated regulation and coordination. Separation and Purification Technology, 2021, 260, 118228.	3.9	22
74	Metal-phenolic network as precursor for fabrication of metal-organic framework (MOF) nanofiltration membrane for efficient desalination. Journal of Membrane Science, 2021, 624, 119101.	4.1	104
75	Construction of covalently-bonded tannic acid/polyhedral oligomeric silsesquioxanes nanochannel layer for antibiotics/salt separation. Journal of Membrane Science, 2021, 623, 119044.	4.1	17
76	Multi-functional tannic acid (TA)-Ferric complex coating for forward osmosis membrane with enhanced micropollutant removal and antifouling property. Journal of Membrane Science, 2021, 626, 119171.	4.1	21
77	Inner-selective coordination nanofiltration hollow fiber membranes from assist-pressure modified substrate. Journal of Membrane Science, 2021, 626, 119186.	4.1	16
78	Construction of a gelatin scaffold with water channels for preparing a high performance nanofiltration membrane. Separation and Purification Technology, 2021, 264, 118391.	3.9	31
79	Selective membranes in water and wastewater treatment: Role of advanced materials. Materials Today, 2021, 50, 516-532.	8.3	106
80	Janus charged polyamide nanofilm with ultra-high separation selectivity for mono-/divalent ions. Chemical Engineering Journal, 2021, 416, 129023.	6.6	40
81	A robust dually charged membrane prepared via catechol-amine chemistry for highly efficient dye/salt separation. Journal of Membrane Science, 2021, 629, 119287.	4.1	44
82	Cleaning&#x2014;Healing&#x2014;Interfacial Polymerization Strategy for Upcycling Real End-of-Life Polyvinylidene Fluoride Microfiltration Membranes. ACS Sustainable Chemistry and Engineering, 2021, 9, 10352-10360.	3.2	15
83	Fabrication of nanofiltration membrane on MoS <sub>2</sub> modified PVDF substrate for excellent permeability, salt rejection, and structural stability. Chemical Engineering Journal, 2021, 416, 129154.	6.6	46
84	Interlayered Forward Osmosis Membranes with Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene and Carbon Nanotubes for Enhanced Municipal Wastewater Concentration. Environmental Science & Technology, 2021, 55, 13219-13230.	4.6	16
85	Enhancing nanofiltration performance for antibiotics/NaCl separation via water activation before microwave heating. Journal of Membrane Science, 2021, 629, 119285.	4.1	23
86	High Permeance or High Selectivity? Optimization of System-Scale Nanofiltration Performance Constrained by the Upper Bound. ACS ES&T Engineering, 2022, 2, 377-390.	3.7	29
87	ZIF-8-incorporated thin-film nanocomposite (TFN) nanofiltration membranes: Importance of particle deposition methods on structure and performance. Journal of Membrane Science, 2021, 632, 119356.	4.1	55
88	Fabrication of ultra-smooth thin-film composite nanofiltration membrane with enhanced selectivity and permeability on interlayer of hybrid polyvinyl alcohol and graphene oxide. Separation and Purification Technology, 2021, 268, 118649.	3.9	30
89	Electrospray interface-less polymerization to fabricate high-performance thin film composite polyamide membranes with controllable skin layer growth. Journal of Membrane Science, 2021, 632, 119369.	4.1	25
90	Polyamide Nanofiltration Membranes from Surfactant&#x2014;Assembly Regulated Interfacial Polymerization: The Effect of Alkyl Chain. Macromolecular Chemistry and Physics, 2021, 222, 2100222.	1.1	12

#	ARTICLE	IF	CITATIONS
91	Recent advances in nanomaterial-incorporated nanocomposite membranes for organic solvent nanofiltration. Separation and Purification Technology, 2021, 268, 118657.	3.9	41
92	High permeability composite nanofiltration membrane assisted by introducing TpPa covalent organic frameworks interlayer with nanorods for desalination and NaCl/dye separation. Separation and Purification Technology, 2021, 270, 118802.	3.9	53
93	Construction of Loose Positively Charged NF Membrane by Layer-by-Layer Grafting of Polyphenol and Polyethyleneimine on the PES/Fe Substrate for Dye/Salt Separation. Membranes, 2021, 11, 699.	1.4	6
94	Carbon nanofibers/chitosan nanocomposite thin film for surface modification of poly(ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.0	33
95	Direct generation of an ultrathin (8.5Ånm) polyamide film with ultrahigh water permeance via in-situ interfacial polymerization on commercial substrate membrane. Journal of Membrane Science, 2021, 634, 119450.	4.1	46
96	A planned review on designing of high-performance nanocomposite nanofiltration membranes for pollutants removal from water. Journal of Industrial and Engineering Chemistry, 2021, 101, 78-125.	2.9	43
97	Nanofiltration membrane combining environmental-friendly polycarboxylic interlayer prepared from catechol for enhanced desalination performance. Desalination, 2021, 512, 115118.	4.0	22
98	pH-Responsive Polyoxometalates that Achieve Efficient Wastewater Reclamation and Source Recovery via Forward Osmosis. Environmental Science & Technology, 2021, 55, 12664-12671.	4.6	14
99	Calcium Ion Coordinated Polyamide Nanofiltration Membrane for Ultrahigh Perm-selectivity Desalination. Chemical Research in Chinese Universities, 2021, 37, 1101-1109.	1.3	5
100	Synthesis of flame-retardant, bactericidal, and color-adjusting wood fibers with metal phenolic networks. Industrial Crops and Products, 2021, 170, 113796.	2.5	13
101	Positively charged nanofiltration membranes mediated by a facile polyethyleneimine-Noria interlayer deposition strategy. Desalination, 2021, 513, 114836.	4.0	43
102	Polyamide nanofiltration membrane with high mono/divalent salt selectivity via pre-diffusion interfacial polymerization. Journal of Membrane Science, 2021, 636, 119478.	4.1	62
103	Hydrophobic poly(vinylidene fluoride) / siloxene nanofiltration membranes. Journal of Membrane Science, 2021, 635, 119447.	4.1	9
104	Ball-milled biochar incorporated polydopamine thin-film composite (PDA/TFC) membrane for high-flux separation of tetracyclic antibiotics from wastewater. Separation and Purification Technology, 2021, 272, 118957.	3.9	25
105	Fabrication of high performance TFN membrane incorporated with graphene oxide via support-free interfacial polymerization. Science of the Total Environment, 2021, 793, 148503.	3.9	24
106	Interfacial polymerized polyamide nanofiltration membrane by demulsification of hexane-in-water droplets through hydrophobic PTFE membrane: Membrane performance and formation mechanism. Separation and Purification Technology, 2021, 275, 119227.	3.9	20
107	Manipulating interfacial polymerization for polymeric nanofilms of composite separation membranes. Progress in Polymer Science, 2021, 122, 101450.	11.8	90
108	Preparation of poly(piperazine-amide) nanofilms with micro-wrinkled surface via nanoparticle-templated interfacial polymerization: Performance and mechanism. Journal of Membrane Science, 2021, 638, 119711.	4.1	22

#	ARTICLE	IF	CITATIONS
109	Fast deposition of Fe <sup>3+</sup> chelated tannic acid network via salt induction over graphene oxide based SBS modified asphalt. <i>Construction and Building Materials</i> , 2021, 307, 125009.	3.2	16
110	Robust dual-layer Janus membranes with the incorporation of polyphenol/Fe <sup>3+</sup> complex for enhanced anti-oil fouling performance in membrane distillation. <i>Desalination</i> , 2021, 515, 115184.	4.0	28
111	Reconstruction of the polyamide film in nanofiltration membranes via the post-treatment with a ternary mixture of ethanol-water-NaOH: Mechanism and effect. <i>Desalination</i> , 2021, 519, 115317.	4.0	20
112	Electrospun nanofiber based forward osmosis membrane using graphene oxide as substrate modifier for enhanced water flux and rejection performance. <i>Desalination</i> , 2021, 518, 115283.	4.0	23
113	Regulating the interfacial polymerization process toward high-performance polyamide thin-film composite reverse osmosis and nanofiltration membranes: A review. <i>Journal of Membrane Science</i> , 2021, 640, 119765.	4.1	106
114	Fabrication of high performance nanofiltration membranes based on the interfacial polymerization regulated by the incorporation of dextran nanoparticles. <i>Desalination</i> , 2021, 519, 115308.	4.0	20
115	Electrospun polyimide-based thin-film composite membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021, 640, 119825.	4.1	27
116	Tuning the nano-porosity and nano-morphology of nano-filtration (NF) membranes: Divalent metal nitrates modulated inter-facial polymerization. <i>Journal of Membrane Science</i> , 2021, 640, 119780.	4.1	19
117	Anionic covalent organic framework as an interlayer to fabricate negatively charged polyamide composite nanofiltration membrane featuring ions sieving. <i>Chemical Engineering Journal</i> , 2022, 427, 132009.	6.6	43
118	A critical review on porous substrates of TFC polyamide membranes: Mechanisms, membrane performances, and future perspectives. <i>Journal of Membrane Science</i> , 2022, 641, 119871.	4.1	167
119	Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. <i>Green Chemistry</i> , 2021, 23, 1013-1025.	4.6	18
120	Fabrication of thin-film composite polyamide nanofiltration membrane based on polyphenol intermediate layer with enhanced desalination performance. <i>Desalination</i> , 2020, 488, 114525.	4.0	68
121	MXene Nanosheet Templated Nanofiltration Membranes toward Ultrahigh Water Transport. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1270-1278.	4.6	102
122	Polyamide nanofilms synthesized via controlled interfacial polymerization on a "jelly" surface. <i>Chemical Communications</i> , 2020, 56, 7249-7252.	2.2	35
123	The role of interlayers in enlarging the flux of GO membranes. <i>Nanotechnology</i> , 2020, 31, 505708.	1.3	3
124	In Situ Assembly of Polyamide/Fe(BTC) Nanocomposite Reverse Osmosis Membrane Assisted by Fe <sup>3+</sup> "Polyphenolic Complex for Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48679-48690.	4.0	16
125	Clean energy from salinity gradients using pressure retarded osmosis and reverse electrodialysis: A review. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101687.	1.7	10
126	Novel thin-film composite membrane with polydopamine-modified polyethylene support and tannic acid-Fe <sup>3+</sup> interlayer for forward osmosis applications. <i>Journal of Membrane Science</i> , 2022, 642, 119976.	4.1	23



#	ARTICLE	IF	CITATIONS
127	Mechanism insights into the role of the support mineralization layer toward ultrathin polyamide nanofilms for ultrafast molecular separation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26159-26171.	5.2	34
128	Intensification of mass transfer for zwitterionic amine monomers in interfacial polymerization to fabricate monovalent salt/antibiotics separation membrane. <i>Journal of Membrane Science</i> , 2022, 643, 120050.	4.1	26
129	TFC solvent-resistant nanofiltration membrane prepared via a gyroid-like PE support coated with polydopamine/Tannic acid-Fe(III). <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 400-410.	2.9	12
130	Nanofiltration for drinking water treatment: a review. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 681-698.	2.3	77
131	Preparation of advanced reverse osmosis membrane by a wettability-transformable interlayer combining with N-acyl imidazole chemistry. <i>Journal of Membrane Science</i> , 2022, 644, 120085.	4.1	11
132	Electrosprayed polyamide nanofiltration membrane with uniform and tunable pores for sub-nm precision molecule separation. <i>Separation and Purification Technology</i> , 2022, 282, 120131.	3.9	20
133	Toward Enhancing Desalination and Heavy Metal Removal of TFC Nanofiltration Membranes: A Cost-Effective Interface Temperature-Regulated Interfacial Polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 57998-58010.	4.0	57
134	Surface-Engineered Sulfonation of Ion-Selective Nanofiltration Membrane with Robust Scaling Resistance for Seawater Desalination. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
135	Ultrathin Sulfonated Mesoporous Interlayer Facilitates to Prepare Highly-Permeable Polyamide Nanofiltration Membranes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
136	Tailored design of nanofiltration membranes for water treatment based on synthesisâ€“propertyâ€“performance relationships. <i>Chemical Society Reviews</i> , 2022, 51, 672-719.	18.7	182
137	Surface-engineered sulfonation of ion-selective nanofiltration membrane with robust scaling resistance for seawater desalination. <i>Journal of Membrane Science</i> , 2022, 644, 120191.	4.1	17
138	Engineering novel high-flux thin-film composite (TFC) hollow fiber nanofiltration membranes via a facile and scalable coating procedure. <i>Desalination</i> , 2022, 526, 115531.	4.0	17
139	Novel Poly(piperazinamide)/poly(m-phenylene isophthalamide) composite nanofiltration membrane with polydopamine coated silica as an interlayer for the splendid performance. <i>Separation and Purification Technology</i> , 2022, 285, 120390.	3.9	23
140	Thin-Film Composite Membranes with Programmable In-Plane Heterostructure for High Degree-of-Freedom Performance Control. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
141	The underlying mechanism insights into support polydopamine decoration toward ultrathin polyamide membranes for high-performance reverse osmosis. <i>Journal of Membrane Science</i> , 2022, 646, 120269.	4.1	19
142	Facile fabrication of polyethyleneimine interlayer-assisted graphene oxide incorporated reverse osmosis membranes for water desalination. <i>Desalination</i> , 2022, 526, 115502.	4.0	23
143	Interlayer-modulated polyamide composite membrane for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 647, 120306.	4.1	35
144	Carbon Nanotube Interlayer Enhances Water Permeance and Antifouling Performance of Nanofiltration Membranes: Mechanisms and Experimental Evidence. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2656-2664.	4.6	72

#	ARTICLE	IF	CITATIONS
145	Solvent-Resistant Thin-Film Composite Membranes from Biomass-Derived Building Blocks: Chitosan and 2,5-Furandicarboxaldehyde. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 998-1007.	3.2	41
146	Recent Advances in Graphene Oxide Membranes for Nanofiltration. <i>ACS Applied Nano Materials</i> , 2022, 5, 3121-3145.	2.4	42
147	Biocatalytic polymeric membranes to decrease biofilm fouling and remove organic contaminants in wastewater: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1897-1927.	8.3	11
148	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. <i>Environmental Science and Technology Letters</i> , 2022, 9, 247-257.	3.9	42
149	Thin-film composite membranes with programmable in-plane heterostructure for high degree-of-freedom performance control. <i>Journal of Membrane Science</i> , 2022, 653, 120522.	4.1	9
150	Nanofiltration membranes with enhanced performance by constructing an interlayer integrated with dextran nanoparticles and polyethyleneimine coating. <i>Journal of Membrane Science</i> , 2022, 654, 120537.	4.1	24
151	Ultrathin polyamide membranes enabled by spin-coating assisted interfacial polymerization for high-flux nanofiltration. <i>Separation and Purification Technology</i> , 2022, 288, 120648.	3.9	17
152	MXenes and other 2D nanosheets for modification of polyamide thin film nanocomposite membranes for desalination. <i>Separation and Purification Technology</i> , 2022, 289, 120777.	3.9	31
153	A novel ceramic-based thin-film composite nanofiltration membrane with enhanced performance and regeneration potential. <i>Water Research</i> , 2022, 215, 118264.	5.3	24
154	Probing the influence of shape and loading of CeO <sub>2</sub> nanoparticles on the separation performance of thin-film nanocomposite membranes with an interlayer. <i>Separation and Purification Technology</i> , 2022, 291, 120930.	3.9	7
155	Fabrication of high performance nanofiltration membrane by construction of Noria based nanoparticles interlayer. <i>Separation and Purification Technology</i> , 2022, 290, 120781.	3.9	17
156	Ultrathin sulfonated mesoporous interlayer facilitates to prepare highly-permeable polyamide nanofiltration membranes. <i>Journal of Membrane Science</i> , 2022, 652, 120507.	4.1	20
157	Effects of locations of cellulose nanofibers in membrane on the performance of positively charged membranes. <i>Journal of Membrane Science</i> , 2022, 652, 120464.	4.1	12
158	Aminated substrate based thin film composite nanofiltration membrane with high separation performance by chemically inhibiting the intrusion of polyamide. <i>Desalination</i> , 2022, 532, 115724.	4.0	18
159	Fabrication of organic solvent nanofiltration membrane using commercial PVDF substrate via interfacial polymerization on top of metal-organic frameworks interlayer. <i>Journal of Membrane Science</i> , 2022, 652, 120465.	4.1	25
160	Study on the mechanisms for the influence of nanomaterials on the separation performance of nanocomposite membrane from a modeling perspective. <i>Desalination</i> , 2022, 532, 115740.	4.0	6
161	Tannic acid as an eco-friendly natural passivator for the inhibition of pyrite oxidation to prevent acid mine drainage at the source. <i>Applied Surface Science</i> , 2022, 591, 153172.	3.1	17
162	Construction of Hollow Fiber Nanofiltration Separation Layer with Bridging Network Structure by Polymer-Anchored Co-Deposition for High-Concentration Heavy Metal Ion Removal. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
163	Nano-Striped Polyamide Membranes Enabled by Vacuum-Assisted Incorporation of Hierarchical Flower-Like MoS <sub>2</sub> for Enhanced Nanofiltration Performance. SSRN Electronic Journal, 0, , .	0.4	1
164	Metal Ion-Directed Functional Metal-Organic Phenolic Materials. Chemical Reviews, 2022, 122, 11432-11473.	23.0	108
165	TFC organic solvent nanofiltration membrane fabricated by a novel HDPE membrane support covered by manganese dioxide /tannic acid-Fe <sup>3+</sup> layers. Journal of the Taiwan Institute of Chemical Engineers, 2022, 135, 104363.	2.7	8
166	Enhancing the Permselectivity of Thin-Film Composite Membranes Interlayered with MoS <sub>2</sub> Nanosheets via Precise Thickness Control. Environmental Science & Technology, 2022, 56, 8807-8818.	4.6	27
167	Novel thin-film nanocomposite membranes with crosslinked polyvinyl alcohol interlayer for Perfluorinated Compounds (PFCs) removal. Chemical Engineering Research and Design, 2022, 163, 498-505.	2.7	6
168	A zwitterionic copolymer-interlayered ultrathin nanofilm with ridge-shaped structure for ultrapervious nanofiltration. Journal of Membrane Science, 2022, 657, 120679.	4.1	19
169	Modulating interfacial polymerization with phytate as aqueous-phase additive for highly-permselective nanofiltration membranes. Journal of Membrane Science, 2022, 657, 120673.	4.1	47
170	Separation mechanism, selectivity enhancement strategies and advanced materials for mono-/multivalent ion-selective nanofiltration membrane. , 2022, 2, 100032.		26
171	Enhanced water permeability in nanofiltration membranes using 3D accordion-like MXene particles with random orientation of 2D nanochannels. Journal of Materials Chemistry A, 2022, 10, 16430-16438.	5.2	15
172	A CNT/PVA film supported TFC membranes for improvement of mechanical properties and chemical cleaning stability: A new insight to an alternative to the polymeric support. Journal of Membrane Science, 2022, 658, 120753.	4.1	6
173	Tailored nanofiltration membranes with enhanced permeability and antifouling performance towards leachate treatment. Journal of Membrane Science, 2022, 658, 120730.	4.1	6
174	High performance polyamide TFC reverse osmosis membrane fabricated on co-deposition hydrophilic modified polyethylene substrate. Desalination, 2022, 538, 115909.	4.0	12
175	Microporous polymer adsorptive membranes with high processing capacity for molecular separation. Nature Communications, 2022, 13, .	5.8	30
176	Coupling solar-driven interfacial evaporation with forward osmosis for continuous water treatment. Exploration, 2022, 2, .	5.4	29
177	Tannic acid reinforced interfacial polymerization fabrication of internally pressurized thin-film composite hollow fiber reverse osmosis membranes with high performance. Desalination, 2022, 538, 115926.	4.0	15
178	Rapid Upcycling of End-of-Life Microfiltration Membrane Mediated by the Healing of Metal-Organic Complex. ACS Sustainable Chemistry and Engineering, 2022, 10, 9841-9849.	3.2	9
179	Modeling Water Transport in Interlayered Thin-Film Nanocomposite Membranes: Gutter Effect vs Funnel Effect. ACS ES&T Engineering, 2022, 2, 2023-2033.	3.7	27
180	Tannic acid (TA)-based coating modified membrane enhanced by successive inkjet printing of Fe <sup>3+</sup> and sodium periodate (SP) for efficient oil-water separation. Journal of Membrane Science, 2022, 660, 120873.	4.1	26

#	ARTICLE	IF	CITATIONS
181	Cavitating substrates to boost water permeance of reverse osmosis membranes. Separation and Purification Technology, 2022, 299, 121810.	3.9	6
182	Polyamide membranes with a ZIF-8@Tannic acid core-shell nanoparticles interlayer to enhance nanofiltration performance. Desalination, 2022, 541, 116042.	4.0	18
183	Antibiotics separation from saline wastewater by nanofiltration membrane based on tannic acid-ferric ions coordination complexes. Desalination, 2022, 541, 116034.	4.0	12
184	Construction of hollow fiber nanofiltration separation layer with bridging network structure by polymer-anchored co-deposition for high-concentration heavy metal ion removal. Journal of Membrane Science, 2022, 661, 120864.	4.1	10
185	Effect of the interlayer construction on the performances of the TFC-FO membranes: A review from materials perspective. Desalination, 2022, 541, 116033.	4.0	11
186	Enhanced high-salinity brines treatment using polyamide nanofiltration membrane with tunable interlayered MXene channel. Science of the Total Environment, 2023, 856, 158434.	3.9	17
187	Distinct impact of substrate hydrophilicity on performance and structure of TFC NF and RO polyamide membranes. Journal of Membrane Science, 2022, 662, 120966.	4.1	24
188	Robust polyamide-PTFE hollow fibre membranes for harsh organic solvent nanofiltration. Chemical Engineering Journal, 2023, 452, 139333.	6.6	25
189	Fabrication of Thin Film Composite Membranes on Nanozeolite Modified Support Layer for Tailored Nanofiltration Performance. Membranes, 2022, 12, 940.	1.4	10
190	Hybrid Dimensional MXene/CNC Framework-Regulated Nanofiltration Membrane with High Separation Performance. ACS ES&T Water, 2023, 3, 1767-1777.	2.3	7
191	Rapid transport of water and monovalent ions through ultrathin polyamide nanofilms for highly efficient mono/bivalent ions separation. Applied Surface Science, 2023, 608, 155025.	3.1	8
192	Regulation of interfacial polymerization process based on reversible enamine reaction for high performance nanofiltration membrane. Journal of Membrane Science, 2022, 664, 121070.	4.1	5
193	2D COFs interlayer manipulated interfacial polymerization for fabricating high performance reverse osmosis membrane. Separation and Purification Technology, 2022, 303, 122198.	3.9	8
194	Regulating interfacial polymerization via constructed 2D metal-organic framework interlayers for fabricating nanofiltration membranes with enhanced performance. Desalination, 2022, 544, 116134.	4.0	30
195	Facile synthesis of nanofiltration membrane with asymmetric selectivity towards enhanced water recovery for groundwater remediation. Journal of Membrane Science, 2022, 663, 121038.	4.1	13
196	Hollow Fiber Membrane for Organic Solvent Nanofiltration: A Mini Review. Membranes, 2022, 12, 995.	1.4	3
197	Development and Investigation of Hierarchically Structured Thin-Film Nanocomposite Membranes from Polyamide/Chitosan Succinate Embedded with a Metal-Organic Framework (Fe-BTC) for Pervaporation. Membranes, 2022, 12, 967.	1.4	3
198	Metal-Polyphenol Coordination at the Aqueous Contra-diffusion Interface: A Green Way to High-Performance Iron(III)/Tannic Acid Thin-Film-Composite Nanofiltration Membranes. Langmuir, 2022, 38, 13793-13802.	1.6	6

#	ARTICLE	IF	CITATIONS
199	Synergistic regulation of macrocyclic polyamine-based polyamide nanofiltration membranes by the interlayer and surfactant for divalent ions rejection and mono-/di-ions sieving. <i>Desalination</i> , 2022, 544, 116131.	4.0	15
200	A strong and biodegradable wood particles-based bioplastic modified by synergistically dynamic cross-linking with tannic acid and Fe <sup>3+</sup> . <i>Composites Part B: Engineering</i> , 2022, 247, 110349.	5.9	5
201	Layer-by-layer assembly of alginate/Ca <sup>2+</sup> as interlayer on microfiltration substrate: Fabrication of high selective thin-film composite forward osmosis membrane for efficient heavy metal ions removal. <i>Chemical Engineering Research and Design</i> , 2022, 188, 564-574.	2.7	11
202	Effective regulating interfacial polymerization process of OSN membrane via in-situ constructed nano-porous interlayer of 2D Tphz covalent organic frameworks. <i>Journal of Membrane Science</i> , 2023, 665, 121101.	4.1	14
203	Poly(caffeic acid) as interlayer to enhance nanofiltration performance of polyamide composite membrane. <i>Desalination</i> , 2023, 545, 116168.	4.0	8
204	Dual-layer Janus charged nanofiltration membranes constructed by sequential electrospray polymerization for efficient water softening. <i>Chemosphere</i> , 2023, 310, 136929.	4.2	9
205	Electrosprayed thin film nanocomposite polyamide nanofiltration with homogeneous distribution of nanoparticles for enhanced separation performance. <i>Desalination</i> , 2023, 546, 116206.	4.0	7
206	Intrinsic limitations of nanofiltration membranes to achieve precise selectivity in water-based separations. , 0, 1, .		5
207	Boosting the Performance of Nanofiltration Membranes in Removing Organic Micropollutants: Trade-Off Effect, Strategy Evaluation, and Prospective Development. <i>Environmental Science &amp; Technology</i> , 2022, 56, 15220-15237.	4.6	25
208	Nanofiltration membranes composed of carbonized giant cane and Pongamia meal binder for ion sieving in water and molecular sieving in organic solvents. <i>Sustainable Materials and Technologies</i> , 2023, 35, e00517.	1.7	1
209	Crown ether interlayer-modulated polyamide membrane with nanoscale structures for efficient desalination. <i>Nano Research</i> , 2023, 16, 6153-6159.	5.8	10
210	Revealing key structural and operating features on water/salts selectivity of polyamide nanofiltration membranes by ensemble machine learning. <i>Desalination</i> , 2023, 548, 116293.	4.0	11
211	Ionic liquid modified COF nanosheet interlayered polyamide membranes for elevated nanofiltration performance. <i>Desalination</i> , 2023, 548, 116300.	4.0	16
212	Nanorod-interlayered thin film composite membranes for ultrafast nanofiltration. <i>Desalination</i> , 2023, 548, 116255.	4.0	6
213	High-performance polyethyleneimine based reverse osmosis membrane fabricated via spin-coating technology. <i>Journal of Membrane Science</i> , 2023, 668, 121248.	4.1	6
214	Nano-striped polyamide membranes enabled by vacuum-assisted incorporation of hierarchical flower-like MoS <sub>2</sub> for enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2023, 668, 121250.	4.1	12
215	Highly permeable positively charged nanofiltration membranes with multilayer structures for multiple heavy metal removals. <i>Desalination</i> , 2023, 548, 116266.	4.0	22
216	TFN Membrane Fabricated by a Gyroid-like PE Support, a Basil Seed Mucilage-Fe(III) Interlayer, and a Polyamide Active Layer Incorporated with MIL-101(Cr)-NH <sub>2</sub> Nanoparticles. <i>ACS Applied Polymer Materials</i> , 2023, 5, 899-912.	2.0	0

#	ARTICLE	IF	CITATIONS
217	Highly permeable nanofilms with asymmetric multilayered structure engineered via amine-decorated interlayered interfacial polymerization. <i>Journal of Membrane Science</i> , 2023, 670, 121377.	4.1	14
218	Enhancing the desalination performance of polyamide nanofiltration membranes via in-situ incorporation of zwitterionic nanohydrogel. <i>Desalination</i> , 2023, 549, 116355.	4.0	2
219	Thin film composite nanofiltration membrane with nanocluster structure mediated by graphene oxide/metal-polyphenol nanonetwork scaffold interlayer. <i>Journal of Membrane Science</i> , 2023, 669, 121330.	4.1	9
220	Regulating interfacial polymerization via a multi-functional calcium carbonate based interlayer for a highly permselective nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2023, 11, 8836-8844.	5.2	10
221	Nanofiltration membrane with CM- $\beta$ -CD tailored polyamide layer for high concentration cephalixin solution separation. <i>Journal of Membrane Science</i> , 2023, 672, 121445.	4.1	8
222	Thin film composite nanofiltration membrane with tannic acid-Fe(III) complexes functionalized CNTs interlayer toward energy efficient remediation of groundwater. <i>Desalination</i> , 2023, 552, 116438.	4.0	7
223	Additive manufacturing of defect-healing polyamide membranes for fast and robust desalination. <i>Journal of Membrane Science</i> , 2023, 671, 121407.	4.1	4
224	Sulfonated polyaniline interlayer with controllable doping conditions for high-performance nanofiltration. <i>Journal of Membrane Science</i> , 2023, 672, 121478.	4.1	9
225	Tannic acid-assisted prussian blue anchoring on membranes for rapid and recyclable removal of cesium. <i>Journal of Water Process Engineering</i> , 2023, 52, 103565.	2.6	4
226	Preparation of composite nanofiltration membrane with interlayer for pharmaceutical rejection. <i>Separation and Purification Technology</i> , 2023, 312, 123411.	3.9	5
227	Polyethersulfone-TPU blend membrane coated with an environmentally friendly sabja seed mucilage-Cu <sup>2+</sup> -cross-linked layer with outstanding separation performance and superior antifouling. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 121, 421-433.	2.9	1
228	Tailoring properties and performance of thin-film composite membranes by salt additives for water treatment: A critical review. <i>Water Research</i> , 2023, 234, 119821.	5.3	7
229	Fabrication of novel thin-film nanocomposite polyamide membrane by the interlayer approach: A review. <i>Desalination</i> , 2023, 554, 116509.	4.0	20
230	Bird's nest -inspired fabrication of ZIF-8 interlayer for organic solvent nanofiltration membranes. <i>Journal of Membrane Science</i> , 2023, 675, 121520.	4.1	9
231	Polyelectrolyte-assisted interfacial polymerization for polyamide nanofiltration membrane with enhanced separation and anti-biofouling properties in groundwater treatment. <i>Desalination</i> , 2023, 555, 116546.	4.0	7
232	An efficient co-solvent tailoring interfacial polymerization for nanofiltration: enhanced selectivity and mechanism. <i>Journal of Membrane Science</i> , 2023, 677, 121615.	4.1	7
233	Evading the permeance-selectivity trade-off dilemma in electrospray-assisted interfacial polymerization polyamide thin-film composite membrane through electrospinning nanofibers interlayer. <i>Desalination</i> , 2023, 558, 116625.	4.0	6
234	Polyamide layer modulation for PA-TFC membranes Optimization: Developments, Mechanisms, and implications. <i>Separation and Purification Technology</i> , 2023, 311, 123200.	3.9	11

#	ARTICLE	IF	CITATIONS
235	Low-pressure thin-film composite nanofiltration membranes with enhanced selectivity and antifouling property for effective dye/salt separation. <i>Journal of Colloid and Interface Science</i> , 2023, 641, 197-214.	5.0	13
236	Roles and gains of coordination chemistry in nanofiltration membrane: A review. <i>Chemosphere</i> , 2023, 318, 137930.	4.2	10
237	Fabrication of polyamide membranes by interlayer-assisted interfacial polymerization method with enhanced organic solvent nanofiltration performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 663, 131075.	2.3	9
238	A review on the polyamide thin film composite (TFC) membrane used for desalination: Improvement methods, current alternatives, and challenges. <i>Chemical Engineering Research and Design</i> , 2023, 191, 472-492.	2.7	10
239	Preparation of high flux organic solvent nanofiltration membrane based on polyimide/Noria composite ultrafiltration membrane. <i>Applied Surface Science</i> , 2023, 618, 156650.	3.1	14
240	Deciphering the role of polyketone substrates in tuning the structure and properties of polyamide nanofiltration membranes. <i>Journal of Membrane Science</i> , 2023, 678, 121687.	4.1	5