

# Calcium-Carboxyl Intrabridging during Interfacial Poly Improve Antifouling Performance of Thin Film Compos

Environmental Science & Technology

53, 4371-4379

DOI: [10.1021/acs.est.8b05690](https://doi.org/10.1021/acs.est.8b05690)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The upper bound of thin-film composite (TFC) polyamide membranes for desalination. Journal of Membrane Science, 2019, 590, 117297.	4.1	381
2	A Review on Reverse Osmosis and Nanofiltration Membranes for Water Purification. Polymers, 2019, 11, 1252.	2.0	326
3	New insights into the organic fouling mechanism of an <i>in situ</i> Ca <sup>2+</sup> modified thin film composite forward osmosis membrane. RSC Advances, 2019, 9, 38227-38234.	1.7	10
4	Tailoring the internal void structure of polyamide films to achieve highly permeable reverse osmosis membranes for water desalination. Journal of Membrane Science, 2020, 595, 117518.	4.1	46
5	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
6	Solvent activation before heat-treatment for improving reverse osmosis membrane performance. Journal of Membrane Science, 2020, 595, 117565.	4.1	35
7	1-methylimidazole as a novel additive for reverse osmosis membrane with high flux-rejection combinations and good stability. Journal of Membrane Science, 2020, 599, 117830.	4.1	39
8	In-situ covalently bonded supramolecular-based protective layer for improving chlorine resistance of thin-film composite nanofiltration membranes. Desalination, 2020, 474, 114197.	4.0	57
9	Dual-functional acyl chloride monomer for interfacial polymerization: Toward enhanced water softening and antifouling performance. Separation and Purification Technology, 2020, 237, 116362.	3.9	22
10	Removal of organic micropollutants using advanced membrane-based water and wastewater treatment: A review. Journal of Membrane Science, 2020, 598, 117672.	4.1	238
11	A novel cockscomb-like substrate-supported TFN-FO membrane with a dispersed bovine serum albumin (BSA)/gold nanoparticles (GNPs) interface layer exhibiting high performance. Desalination, 2020, 496, 114732.	4.0	4
12	Degradation of secondary polyamide reverse osmosis membrane by hypochlorite in the presence of calcium ions. Polymer Degradation and Stability, 2020, 181, 109351.	2.7	7
13	Polyhydroxy Group Functionalized Zwitterion for a Polyamide Nanofiltration Membrane with High Water Permeation and Antifouling Performance. ACS Applied Polymer Materials, 2020, 2, 3850-3858.	2.0	14
14	Current status and challenges of fabricating thin film composite forward osmosis membrane: A comprehensive roadmap. Desalination, 2020, 491, 114557.	4.0	56
15	Molecular Understanding of Ion Effect on Polyzwitterion Conformation in an Aqueous Environment. Langmuir, 2020, 36, 7648-7657.	1.6	10
16	Fabrication of High-Performance Thin-Film Composite Nanofiltration Membrane by Dynamic Calcium-Carboxyl Intra-Bridging during Post-Treatment. Membranes, 2020, 10, 137.	1.4	13
17	Cellulose nanocrystal/silver (CNC/Ag) thin-film nanocomposite nanofiltration membranes with multifunctional properties. Environmental Science: Nano, 2020, 7, 803-816.	2.2	49
18	Constructing substrate of low structural parameter by salt induction for high-performance TFC-FO membranes. Journal of Membrane Science, 2020, 600, 117866.	4.1	24

#	ARTICLE	IF	CITATIONS
19	High-performance nanofiltration membrane structured with enhanced stripe nano-morphology. <i>Journal of Membrane Science</i> , 2020, 600, 117852.	4.1	57
20	A self-cleaning zwitterionic nanofibrous membrane for highly efficient oil-in-water separation. <i>Science of the Total Environment</i> , 2020, 729, 138876.	3.9	40
21	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
22	Inkjet printed single walled carbon nanotube as an interlayer for high performance thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , 2021, 620, 118901.	4.1	48
23	Inkjet printing of graphene oxide and dopamine on nanofiltration membranes for improved anti-fouling properties and chlorine resistance. <i>Separation and Purification Technology</i> , 2021, 254, 117604.	3.9	31
24	Enhanced Water Permeability and Antifouling Property of Coffee-Ring-Textured Polyamide Membranes by In Situ Incorporation of a Zwitterionic Metal-Organic Framework. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5324-5334.	4.6	28
25	Corn Stalk-Derived Carbon Quantum Dots with Abundant Amino Groups as a Selective-Layer Modifier for Enhancing Chlorine Resistance of Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22621-22634.	4.0	18
26	Evaluation of Performance of Existing RO Drinking Water Stations in the North Central Province, Sri Lanka. <i>Membranes</i> , 2021, 11, 383.	1.4	12
27	Separation, anti-fouling, and chlorine resistance of the polyamide reverse osmosis membrane: From mechanisms to mitigation strategies. <i>Water Research</i> , 2021, 195, 116976.	5.3	90
28	Fabrication of nanofiltration membrane on MoS <sub>2</sub> modified PVDF substrate for excellent permeability, salt rejection, and structural stability. <i>Chemical Engineering Journal</i> , 2021, 416, 129154.	6.6	46
29	Novel thin-film composite membrane with ultrathin surface mineralization layer engineered by electrostatic attraction induced In-situ assembling process for high-performance nanofiltration. <i>Chemical Engineering Journal</i> , 2021, 417, 127903.	6.6	20
30	Importance of Surface Carboxyl Groups on Biofouling Development and Control for Thin Film Composite (TFC) Polyamide Membranes. <i>ACS ES&amp;T Engineering</i> , 0, , .	3.7	2
31	Positively charged membranes constructed via complexation for chromium removal through micellar-enhanced forward osmosis. <i>Chemical Engineering Journal</i> , 2021, 420, 129837.	6.6	16
32	Fabrication and performance of reticular ceramic fiber membranes by freeze casting using a gel network. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6586-6595.	2.8	9
33	MOF laminates functionalized polyamide self-cleaning membrane for advanced loose nanofiltration. <i>Separation and Purification Technology</i> , 2021, 275, 119150.	3.9	34
34	Enhancing the long-term separation stability of TFC membrane by the covalent bond between synthetic amino-substituted polyethersulfone substrate and polyamide layer. <i>Journal of Membrane Science</i> , 2021, 637, 119637.	4.1	15
35	Coordination-crosslinked polyimide supported membrane for ultrafast molecular separation in multi-solvent systems. <i>Chemical Engineering Journal</i> , 2022, 427, 130941.	6.6	28
36	Metal-polyphenol dual crosslinked graphene oxide membrane for desalination of textile wastewater. <i>Desalination</i> , 2020, 487, 114503.	4.0	64

#	ARTICLE	IF	CITATIONS
37	Impacts of sodium bicarbonate and co-amine monomers on properties of thin-film composite membrane for water treatment. <i>International Journal of Environmental Science and Technology</i> , 0, , 1.	1.8	0
38	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
39	Mechanistic Insights of a Thermoresponsive Interface for Fouling Control of Thin-Film Composite Nanofiltration Membranes. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1927-1937.	4.6	32
40	Recent advances on cellulose-based nanofiltration membranes and their applications in drinking water purification: A review. <i>Journal of Cleaner Production</i> , 2022, 333, 130171.	4.6	57
41	Polyamide thin film nanocomposite membrane with internal void structure mediated by silica and SDS for highly permeable reverse-osmosis application. <i>Composites Communications</i> , 2022, , 101092.	3.3	3
42	Green Fabrication of Thin Film Composite Polyamide Membrane for Water Purification Via Inkjet Printing Technology. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
43	Performance of TFN nanofiltration membranes through embedding internally modified titanate nanotubes. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 1902-1918.	1.2	6
44	Poly(vinylidene fluoride) Substrate-Supported Polyamide Membrane for High-Temperature Water Nanofiltration. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3820-3832.	2.0	10
45	Polyoxometalate-modified halloysite nanotubes-based thin-film nanocomposite membrane for efficient organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2022, 295, 121348.	3.9	11
46	Turning waste into adsorbent: Modification of discarded orange peel for highly efficient removal of Cd(II) from aqueous solution. <i>Biochemical Engineering Journal</i> , 2022, 185, 108497.	1.8	10
47	A Mof-Based Trap with Strong Affinity Toward Low-Concentration Heavy Metal Ions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
48	In Situ Chemical Modification with Zwitterionic Copolymers of Nanofiltration Membranes: Cure for the Trade-Off between Filtration and Antifouling Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28842-28853.	4.0	12
49	A MOF-based trap with strong affinity toward low-concentration heavy metal ions. <i>Separation and Purification Technology</i> , 2022, 301, 121946.	3.9	6
50	Fabrication of thin film composite polyamide membrane for water purification via inkjet printing of aqueous and solvent inks. <i>Desalination</i> , 2022, 541, 116027.	4.0	9
51	Antibiofouling Characteristics and Mechanisms in an Anammox Membrane Bioreactor Based on an Optimized Photocatalytic Technologyâ€™Photocatalytic Optical Fibers. <i>Environmental Science &amp; Technology</i> , 2022, 56, 16144-16155.	4.6	5
52	IPâ€™ZrO <sub>2</sub> /BC Nanofiltration Membranes: Preparation and Properties. <i>Coatings</i> , 2022, 12, 1823.	1.2	1
53	Hollow porous carbon spheres (HPCSs) doped thin-film nanocomposite membrane for efficient organic solvent nanofiltration. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109252.	3.3	1
54	Synthesis and Characterization of Nanofiltration Membrane. , 2023, , 17-35.		0

#	ARTICLE	IF	CITATIONS
55	Concentration of phenolic compounds from olive washing wastewater by forward osmosis using table olive fermentation brine as draw solution. <i>Environmental Technology and Innovation</i> , 2023, 30, 103054.	3.0	3
56	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