

Degradation of Polyamide Nanofiltration and Reverse Osmosis Membranes

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Effects of hypochlorous acid exposure on the rejection of salt, polyethylene glycols, boron and arsenic(V) by nanofiltration and reverse osmosis membranes. <i>Water Research</i> , 2012, 46, 5217-5223.	5.3	74
2	Effect of chlorination condition and permeability of chlorine species on the chlorination of a polyamide membrane. <i>Water Research</i> , 2012, 46, 5389-5400.	5.3	76
3	Effects of Chlorine Exposure Conditions on Physicochemical Properties and Performance of a Polyamide Membrane—Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2012, 46, 13184-13192.	4.6	164
4	Mass transfer properties of chlorinated aromatic polyamide reverse osmosis membranes. <i>Separation and Purification Technology</i> , 2012, 101, 60-67.	3.9	9
5	The chlorination process of crosslinked aromatic polyamide reverse osmosis membrane: New insights from the study of self-made membrane. <i>Desalination</i> , 2013, 313, 145-155.	4.0	61
6	Surface Modification of Commercial Aromatic Polyamide Reverse Osmosis Membranes by Crosslinking Treatments. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 473-484.	1.7	15
7	Pilot scale study of chlorination-induced transport property changes of a seawater reverse osmosis membrane. <i>Desalination</i> , 2013, 311, 24-30.	4.0	17
8	Correlating chlorine-induced changes in mechanical properties to performance in polyamide-based thin film composite membranes. <i>Journal of Membrane Science</i> , 2013, 433, 72-79.	4.1	56
9	Preparation of polyamide membranes with improved chlorine resistance by bis-2,6-N,N-(2-hydroxyethyl) diaminotoluene and trimesoyl chloride. <i>Desalination</i> , 2013, 331, 16-25.	4.0	32
10	Polyamide nanofilm composite membranes (NCMs) supported by chitosan coated electrospun nanofibrous membranes: Preparation and separation performance research. <i>Desalination</i> , 2013, 328, 31-41.	4.0	31
11	Energy recovery from concentrated seawater brine by thin-film nanofiber composite pressure retarded osmosis membranes with high power density. <i>Energy and Environmental Science</i> , 2013, 6, 1199.	15.6	179
12	Strategies for improving the performance of the polyamide thin film composite (PA-TFC) reverse osmosis (RO) membranes: Surface modifications and nanoparticles incorporations. <i>Desalination</i> , 2013, 328, 83-100.	4.0	227
13	Acid and multivalent ion resistance of thin film nanocomposite RO membranes loaded with silicalite-1 nanozeolites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11343.	5.2	108
14	Layer-by-Layer Assembly of Graphene Oxide Nanosheets on Polyamide Membranes for Durable Reverse-Osmosis Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12510-12519.	4.0	471
15	A novel reverse osmosis membrane with regenerable anti-biofouling and chlorine resistant properties. <i>Journal of Membrane Science</i> , 2013, 435, 80-91.	4.1	135
16	Effect of pH on the ageing of reverse osmosis membranes upon exposure to hypochlorite. <i>Desalination</i> , 2013, 309, 97-105.	4.0	73
18	Structure and dynamics of water confined in a polyamide reverse-osmosis membrane: A molecular-simulation study. <i>Journal of Membrane Science</i> , 2014, 458, 236-244.	4.1	118
19	Surface coating on the polyamide TFC RO membrane for chlorine resistance and antifouling performance improvement. <i>Journal of Membrane Science</i> , 2014, 451, 205-215.	4.1	154

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20	Degradation of Poly(Ether Sulfone)/Polyvinylpyrrolidone Membranes by Sodium Hypochlorite: Insight from Advanced Electrokinetic Characterizations. <i>Environmental Science & Technology</i> , 2014, 48, 13419-13426.	4.6	52
21	Fabrication and characterization of a novel poly(amide-urethane@imide) TFC reverse osmosis membrane with chlorine-tolerant property. <i>Journal of Membrane Science</i> , 2014, 469, 397-409.	4.1	66
22	Bulk Chlorine Uptake by Polyamide Active Layers of Thin-Film Composite Membranes upon Exposure to Free Chlorine—Kinetics, Mechanisms, and Modeling. <i>Environmental Science & Technology</i> , 2014, 48, 2741-2749.	4.6	64
23	Fouling of nanofiltration membranes in full- and bench-scale systems treating groundwater containing silica. <i>Journal of Membrane Science</i> , 2014, 468, 349-359.	4.1	34
24	Electroconductive Feed Spacer as a Tool for Biofouling Control in a Membrane System for Water Treatment. <i>Environmental Science and Technology Letters</i> , 2014, 1, 179-184.	3.9	37
25	Molecular Dynamics Simulations of Polyamide Membrane, Calcium Alginate Gel, and Their Interactions in Aqueous Solution. <i>Langmuir</i> , 2014, 30, 9098-9106.	1.6	82
26	Molecular simulations of polyamide reverse osmosis membranes. <i>Desalination</i> , 2014, 343, 48-53.	4.0	63
27	Optimisation and performance of NaClO-assisted maintenance cleaning for fouling control in membrane bioreactors. <i>Water Research</i> , 2014, 53, 1-11.	5.3	65
28	Desalting and recovering naphthalenesulfonic acid from wastewater with concentrated bivalent salt by nanofiltration process. <i>Journal of Membrane Science</i> , 2014, 468, 242-249.	4.1	16
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32	Reverse osmosis performance of layered-hybrid membranes consisting of an organosilica separation layer on polymer supports. <i>Journal of Membrane Science</i> , 2015, 494, 104-112.	4.1	19
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35	Metal-organic framework-based porous matrix membranes for improving mass transfer in forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 492, 392-399.	4.1	80
36	Effects of chlorine exposure on nanofiltration performance of polyamide membranes. <i>Journal of Membrane Science</i> , 2015, 487, 256-270.	4.1	40
37	Hydrophilic, Bactericidal Nanoheater-Enabled Reverse Osmosis Membranes to Improve Fouling Resistance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11117-11126.	4.0	67

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39	Improving fouling resistance and chlorine stability of aromatic polyamide thin-film composite RO membrane by surface grafting of polyvinyl alcohol (PVA). <i>Desalination</i> , 2015, 367, 11-20.	4.0	153
40	Role of Reverse Divalent Cation Diffusion in Forward Osmosis Biofouling. <i>Environmental Science & Technology</i> , 2015, 49, 13222-13229.	4.6	50
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43	Polyvinylamine-grafted polyamide reverse osmosis membrane with improved antifouling property. <i>Journal of Membrane Science</i> , 2015, 495, 1-13.	4.1	68
44	Transformation of end-of-life RO membranes into NF and UF membranes: Evaluation of membrane performance. <i>Journal of Membrane Science</i> , 2015, 495, 305-315.	4.1	83
45	Polypiperazine-amide nanofiltration membrane incorporated with poly(ethylene glycol) derivative for electro dialysis concentrate treatment. <i>Separation and Purification Technology</i> , 2015, 153, 43-50.	3.9	12
46	Tailoring interlayer structure of molecular layer-by-layer assembled polyamide membranes for high separation performance. <i>Applied Surface Science</i> , 2015, 356, 659-667.	3.1	38
47	A review of recent advance in fouling mitigation of NF/RO membranes in water treatment: pretreatment, membrane modification, and chemical cleaning. <i>Desalination and Water Treatment</i> , 2015, 55, 870-891.	1.0	78
48	The chlorination and chlorine resistance modification of composite polyamide membrane. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	12
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57	Facile modification of thin-film composite nanofiltration membrane with silver nanoparticles for anti-biofouling. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	36
58	Molecular Dynamics Simulations of a Poly(ethylene glycol)-Grafted Polyamide Membrane and Its Interaction with a Calcium Alginate Gel. <i>Langmuir</i> , 2016, 32, 4424-4433.	1.6	41
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62	Improved chlorine tolerance of a polyvinyl pyrrolidone-polysulfone membrane enabled by carboxylated carbon nanotubes. <i>Water Research</i> , 2016, 104, 497-506.	5.3	27
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75	An Integrated approach for characterization of polyamide reverse osmosis membrane degradation due to exposure to free chlorine. <i>Journal of Membrane Science</i> , 2016, 510, 164-173.	4.1	56
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79	Immobilization of silver nanoparticle-decorated silica particles on polyamide thin film composite membranes for antibacterial properties. <i>Journal of Membrane Science</i> , 2016, 499, 80-91.	4.1	144
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81	Thin film composite reverse osmosis membranes prepared via layered interfacial polymerization. <i>Journal of Membrane Science</i> , 2017, 527, 121-128.	4.1	117
82	Fouling in membrane bioreactors: An updated review. <i>Water Research</i> , 2017, 114, 151-180.	5.3	773
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89	Acyl-chloride quenching following interfacial polymerization to modulate the water permeability, selectivity, and surface charge of desalination membranes. <i>Journal of Membrane Science</i> , 2017, 535, 357-364.	4.1	58
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91	Ultra-thin, multi-layered polyamide membranes: Synthesis and characterization. <i>Journal of Membrane Science</i> , 2017, 540, 10-18.	4.1	66

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102	Aquaporin based biomimetic membrane in forward osmosis: Chemical cleaning resistance and practical operation. <i>Desalination</i> , 2017, 420, 208-215.	4.0	79
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106	Chlorine attack on reverse osmosis membranes: Mechanisms and mitigation strategies. <i>Journal of Membrane Science</i> , 2017, 541, 108-126.	4.1	144
107	Parameters for Seawater Reverse Osmosis Product Water: A Review. <i>Exposure and Health</i> , 2017, 9, 157-168.	2.8	7
108	Elemental composition of membrane foulant layers using EDS, XPS, and RBS. <i>Journal of Membrane Science</i> , 2017, 522, 31-44.	4.1	79
109	Relative contributions of organic and inorganic fouling during nanofiltration of inland brackish surface water. <i>Journal of Membrane Science</i> , 2017, 523, 68-76.	4.1	49

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110	High efficient removal of dyes from aqueous solution through nanofiltration using diethanolamine-modified polyamide thin-film composite membrane. <i>Separation and Purification Technology</i> , 2017, 173, 135-143.	3.9	200
111	Fabrication of nanofiltration membranes via stepwise assembly of oligoamide on alumina supports: Effect of number of reaction cycles on membrane properties. <i>Journal of Membrane Science</i> , 2017, 543, 269-276.	4.1	10
112	Triclosan-immobilized polyamide thin film composite membranes with enhanced biofouling resistance. <i>Applied Surface Science</i> , 2018, 443, 458-466.	3.1	38
113	Lab-scale and pilot-scale fabrication of amine-functional reverse osmosis membrane with improved chlorine resistance and antimicrobial property. <i>Journal of Membrane Science</i> , 2018, 554, 221-231.	4.1	41
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115	Influence of operating conditions on the removal of metals and sulfate from copper acid mine drainage by nanofiltration. <i>Chemical Engineering Journal</i> , 2018, 345, 114-125.	6.6	64
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119	Catalytic effect of iron on the tolerance of thin-film composite polyamide reverse osmosis membranes to hydrogen peroxide. <i>Journal of Membrane Science</i> , 2018, 548, 91-98.	4.1	18
120	Modification of microfiltration membranes by alkoxysilane polycondensation induced quaternary ammonium compounds grafting for biofouling mitigation. <i>Journal of Membrane Science</i> , 2018, 549, 165-172.	4.1	64
121	Application of nanofiltration for acidic waters containing rare earth elements: Influence of transition elements, acidity and membrane stability. <i>Desalination</i> , 2018, 430, 33-44.	4.0	59
122	Reinvestigation of membrane cleaning mechanisms using NaOCl: Role of reagent diffusion. <i>Journal of Membrane Science</i> , 2018, 550, 278-285.	4.1	30
123	Polyamide thin-film composite membrane modified with persulfate for improvement of perm-selectivity and chlorine-resistance. <i>Journal of Membrane Science</i> , 2018, 555, 318-326.	4.1	37
124	Real-scale chlorination at pH4 of BW30 TFC membranes and their physicochemical characterization. <i>Journal of Membrane Science</i> , 2018, 551, 123-135.	4.1	24
125	Chlorophenolic Compounds Degradation Based on Electrolyte-Free Electrochemical Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4516-4520.	3.2	1
126	Physicochemical characterization of tight nanofiltration membranes for dairy wastewater treatment. <i>Journal of Membrane Science</i> , 2018, 547, 51-63.	4.1	74
127	Chlorine resistant TFN nanofiltration membrane incorporated with octadecylamine-grafted GO and fluorine-containing monomer. <i>Journal of Membrane Science</i> , 2018, 545, 185-195.	4.1	112

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128	Depositing sericin on partially degraded polyamide reverse osmosis membrane for restored salt rejection and simultaneously enhanced resistance to both fouling and chlorine. <i>Journal of Membrane Science</i> , 2018, 545, 196-203.	4.1	23
129	In situ modification of membrane elements for improved boron rejection in RO desalination. <i>Desalination</i> , 2018, 431, 66-72.	4.0	29
130	Acid mine drainage treatment by nanofiltration: A study of membrane fouling, chemical cleaning, and membrane ageing. <i>Separation and Purification Technology</i> , 2018, 192, 185-195.	3.9	74
131	Chemical cleaning of ultrafiltration membranes for polymer-flooding wastewater treatment: Efficiency and molecular mechanisms. <i>Journal of Membrane Science</i> , 2018, 545, 348-357.	4.1	32
132	Effects of hypochlorite exposure on the structure and electrochemical performance of ion exchange membranes in reverse electrodialysis. <i>Journal of Membrane Science</i> , 2018, 549, 295-305.	4.1	20
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134	Preparation and characterization of a novel nanofiltration membrane with chlorine-tolerant property and good separation performance. <i>RSC Advances</i> , 2018, 8, 36430-36440.	1.7	17
135	Fabrication of eco-friendly nanofibrous membranes functionalized with carboxymethyl- β -cyclodextrin for efficient removal of methylene blue with good recyclability. <i>RSC Advances</i> , 2018, 8, 37715-37723.	1.7	7
136	Facile Fabrication of Unimpeded and Stable Graphene Oxide Coating on Reverse Osmosis Membrane for Dual-Functional Protection. <i>ChemistrySelect</i> , 2018, 3, 12122-12130.	0.7	2
137	Assessment and Modeling of Nanofiltration of Acid Mine Drainage. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 14727-14739.	1.8	20
138	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. <i>Environment International</i> , 2018, 121, 1039-1057.	4.8	94
139	Improved permselectivity of forward osmosis membranes for efficient concentration of pretreated rice straw and bioethanol production. <i>Journal of Membrane Science</i> , 2018, 566, 15-24.	4.1	21
140	PFOA and PFOS Are Generated from Zwitterionic and Cationic Precursor Compounds During Water Disinfection with Chlorine or Ozone. <i>Environmental Science and Technology Letters</i> , 2018, 5, 382-388.	3.9	71
141	Graphene Oxide-Based Polymeric Membranes for Water Treatment. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701427.	1.9	70
142	Polyamide-surfactant interaction: Exploration of new avenues for reverse osmosis separation applications. <i>Advances in Polymer Technology</i> , 2018, 37, 3106-3114.	0.8	11
143	Novel CA/PVDF nanofiber supports strategically designed via coaxial electrospinning for high performance thin-film composite forward osmosis membranes for desalination. <i>Desalination</i> , 2018, 445, 63-74.	4.0	61
144	Preparation and characterization of thin-film-composite reverse-osmosis polyamide membrane with enhanced chlorine resistance by introducing thioether units into polyamide layer. <i>Journal of Membrane Science</i> , 2018, 564, 473-482.	4.1	27
145	High-performance composite nanofiltration membranes fabricated via ternary mixture: Complementary preponderance of the fluorine-containing monomer 2,2-bis(4-hydroxyphenyl)propane and the rigid monomer 2,2-bis(4-trifluoromethylphenyl)propane with 4,4'-methylene dianiline and the rigid monomer bisphenol F. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46482.	1.3	5

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