

# Towards sustainable ultrafast molecular-separation membranes from polymers to emerging materials

Progress in Materials Science

92, 258-283

DOI: [10.1016/j.pmatsci.2017.10.006](https://doi.org/10.1016/j.pmatsci.2017.10.006)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Low-Pressure Nanofiltration Hollow Fiber Membranes for Effective Fractionation of Dyes and Inorganic Salts in Textile Wastewater. <i>Environmental Science &amp; Technology</i> , 2018, 52, 3676-3684.	4.6	129
3	Natural polypeptides treat pollution complex: Moisture-resistant multi-functional protein nanofabrics for sustainable air filtration. <i>Nano Research</i> , 2018, 11, 4265-4277.	5.8	78
4	A Novel Multi-Charged Draw Solute That Removes Organic Arsenicals from Water in a Hybrid Membrane Process. <i>Environmental Science &amp; Technology</i> , 2018, 52, 3812-3819.	4.6	32
5	Recovery of Kraft Lignin from OPEFB and Using for Lignin-agarose Hydrogel. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3307-3315.	2.4	17
6	Evaluation of rheological and thermal properties of polyvinylidene fluoride (PVDF)/graphene nanoplatelets (GNP) composites. <i>Polymer Testing</i> , 2018, 67, 122-135.	2.3	34
7	Structures and mechanical properties of Nb-Mo-Co(Ru) solid solutions for hydrogen permeation. <i>Journal of Alloys and Compounds</i> , 2018, 756, 26-32.	2.8	29
8	Hot electrons coupling-enhanced photocatalysis of super black carbon aerogels/titanium oxide composite. <i>MRS Communications</i> , 2018, 8, 521-526.	0.8	13
9	NiO nanodisks: Highly efficient visible-light driven photocatalyst, potential scaffold for seed germination of <i>Vigna Radiata</i> and antibacterial properties. <i>Journal of Cleaner Production</i> , 2018, 190, 563-576.	4.6	62
10	In situ polymerized poly(acrylic acid)/alumina nanocomposites for Pb <sup>2+</sup> adsorption. <i>Advances in Polymer Technology</i> , 2018, 37, 2981-2996.	0.8	58
11	Novel synthesis of high-molecular-weight prepolymer of poly(p-phenylene benzoxazole) in ionic liquids. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1727-1732.	1.6	1
12	High-Flux Membranes Based on the Covalent Organic Framework COF-LZU1 for Selective Dye Separation by Nanofiltration. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4083-4087.	7.2	584
13	Hydroxide ions transportation in polynorbornene anion exchange membrane. <i>Polymer</i> , 2018, 138, 363-368.	1.8	105
14	Thin film nanocomposite membranes incorporated with graphene quantum dots for high flux and antifouling property. <i>Journal of Membrane Science</i> , 2018, 553, 17-24.	4.1	166
15	One-step transformation of highly hydrophobic membranes into superhydrophilic and underwater superoleophobic ones for high-efficiency separation of oil-in-water emulsions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3391-3396.	5.2	257
16	Wasser-Hochflussmembranen auf Basis der kovalenten organischen Gerüststruktur COF-LZU1 für die Farbstoffabtrennung durch Nanofiltration. <i>Angewandte Chemie</i> , 2018, 130, 4147-4151.	1.6	35
17	Introducing advanced composites and hybrid materials. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 1-5.	9.9	57
18	Vapor-defect-solid growth mechanism for NanoNets utilizing natural defect networks in polycrystals. <i>Materials and Design</i> , 2018, 150, 206-214.	3.3	1
19	Layer-by-layer self-assembly of polycation/GO/OCNTs nanofiltration membrane with enhanced stability and flux. <i>Journal of Materials Science</i> , 2018, 53, 10879-10890.	1.7	26

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20	Efficient adsorption of chlorpheniramine and hexavalent chromium (Cr(VI)) from water system using agronomic waste material. <i>Sustainable Chemistry and Pharmacy</i> , 2018, 9, 1-11.	1.6	37
21	Simultaneously improving the fire safety and mechanical properties of epoxy resin with Fe-CNTs via large-scale preparation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6376-6386.	5.2	183
22	Novel functionalized forward osmosis (FO) membranes for FO desalination: Improved process performance and fouling resistance. <i>Journal of Membrane Science</i> , 2018, 555, 507-516.	4.1	63
23	Bio-inspired loose nanofiltration membranes with optimized separation performance for antibiotics removals. <i>Journal of Membrane Science</i> , 2018, 554, 385-394.	4.1	127
24	Novel Multicharge Hydroacid Complexes That Effectively Remove Heavy Metal Ions from Water in Forward Osmosis Processes. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4464-4471.	4.6	62
25	Construction of oil-unidirectional membrane for integrated oil collection with lossless transportation and oil-in-water emulsion purification. <i>Journal of Membrane Science</i> , 2018, 549, 67-74.	4.1	107
26	A high flux organic solvent nanofiltration membrane from Kevlar aramid nanofibers with in situ incorporation of microspheres. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22987-22997.	5.2	69
27	Fabrication of advanced nanofiltration membranes with nanostrand hybrid morphology mediated by ultrafast polyethyleneimine codeposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21207-21215.	5.2	105
28	Biodegradable Anisotropic Microparticles for Stepwise Cell Adhesion and Preparation of Janus Cell Microparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36776-36785.	4.0	16
29	Novel $\text{Zn}^{2+}$ -CD@ZIF-8 Nanoparticles-Doped Poly(m-phenylene isophthalamide) (PMIA) Thin-Film Nanocomposite (TFN) Membrane for Organic Solvent Nanofiltration (OSN). <i>ACS Omega</i> , 2018, 3, 11770-11787.	1.6	43
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31	High strength, thermostable and fast-drying hybrid transparent membranes with POSS nanoparticles aligned on aramid nanofibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 154-161.	3.8	19
32	Microporous carbon from fullerene impregnated porous aromatic frameworks for improving the desalination performance of thin film composite forward osmosis membranes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11327-11336.	5.2	37
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34	Tannic acid encountering ovalbumin: a green and mild strategy for superhydrophilic and underwater superoleophobic modification of various hydrophobic membranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13959-13967.	5.2	107
35	Organic solvent resistant membranes made from a cross-linked functionalized polymer with intrinsic microporosity (PIM) containing thioamide groups. <i>Chemical Engineering Journal</i> , 2018, 353, 689-698.	6.6	61
36	Functionalized Graphene Oxide Modified Polyethersulfone Membranes for Low-Pressure Anionic Dye/Salt Fractionation. <i>Polymers</i> , 2018, 10, 795.	2.0	15
37	Dual functional membrane with multiple hierarchical structures (MHS) for simultaneous and high-efficiency removal of dye and nano-sized oil droplets in water under high flux. <i>Journal of Membrane Science</i> , 2018, 564, 317-327.	4.1	59

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42	Polymer composites with balanced dielectric constant and loss via constructing trilayer architecture. <i>Journal of Materials Science</i> , 2018, 53, 13230-13242.	1.7	30
43	The effect of electrolyte concentration on electrochemical impedance for evaluating polysulfone membranes. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1145-1151.	1.2	39
44	Biologically inspired silk fibroin grafted polyacrylonitrile filtration membrane prepared in ZnCl <sub>2</sub> aqueous solution. <i>Chinese Chemical Letters</i> , 2019, 30, 239-242.	4.8	21
45	High-performance functionalized polymer of intrinsic microporosity (PIM) composite membranes with thin and stable interconnected layer for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2019, 591, 117347.	4.1	47
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53	Microporous Carbon Membrane: Preparation, Characterization, and Applications. , 2019, , 1-38.		0
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55	Efficient separation of viscous emulsion through amphiprotic collagen nanofibers-based membrane. <i>Journal of Membrane Science</i> , 2019, 588, 117209.	4.1	24

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58	Review on structural control and modification of graphene oxide-based membranes in water treatment: From separation performance to robust operation. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1348-1360.	1.7	33
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63	Development of highly permeable polyelectrolytes (PEs)/UiO-66 nanofiltration membranes for dye removal. <i>Chemical Engineering Research and Design</i> , 2019, 147, 222-231.	2.7	36
64	Nanoparticle-Assembled Thin Film with Amphipathic Nanopores for Organic Solvent Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17804-17813.	4.0	44
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73	Recent developments in graphene-based polymer composite membranes: Preparation, mass transfer mechanism, and applications. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47761.	1.3	31

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76	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17512-17527.	7.2	186
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