

Maximizing the right stuff: The trade-off between mem

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Physical Model for Rapid and Accurate Determination of Nanopore Size via Conductance Measurement. ACS Sensors, 2017, 2, 1523-1530.	4.0	28
2	Membrane thinning for efficient CO ₂ capture. Science and Technology of Advanced Materials, 2017, 18, 816-827.	2.8	30
3	Building Additional Passageways in Polyamide Membranes with Hydrostable Metal Organic Frameworks To Recycle and Remove Organic Solutes from Various Solvents. ACS Applied Materials & Interfaces, 2017, 9, 38877-38886.	4.0	93
4	Channel-facilitated molecule and ion transport across polymer composite membranes. Chemical Society Reviews, 2017, 46, 6725-6745.	18.7	90
5	Highly permeable and antifouling reverse osmosis membranes with acidified graphitic carbon nitride nanosheets as nanofillers. Journal of Materials Chemistry A, 2017, 5, 19875-19883.	5.2	103
6	Solvent-templated Block Ionomers for Base- and Acid-gas Separations: Effect of Humidity on Ammonia and Carbon Dioxide Permeation. Advanced Materials Interfaces, 2017, 4, 1700854.	1.9	25
7	Integrating seawater desalination and wastewater reclamation forward osmosis process using thin-film composite mixed matrix membrane with functionalized carbon nanotube blended polyethersulfone support layer. Chemosphere, 2017, 185, 1181-1188.	4.2	57
8	Nanofluidics in two-dimensional layered materials: inspirations from nature. Chemical Society Reviews, 2017, 46, 5400-5424.	18.7	233
9	Ultrapermearable membranes. Nature Materials, 2017, 16, 880-881.	13.3	32
10	Poly(ether imide sulfone) Membranes from Solutions in Ionic Liquids. Industrial & Engineering Chemistry Research, 2017, 56, 14914-14922.	1.8	16
11	Phase Inversion Directly Induced Tight Ultrafiltration (UF) Hollow Fiber Membranes for Effective Removal of Textile Dyes. Environmental Science & Technology, 2017, 51, 14254-14261.	4.6	72
12	Structure-property relationships of crosslinked disulfonated poly(arylene ether sulfone) membranes for desalination of water. Polymer, 2017, 132, 286-293.	1.8	11
13	High-Performance Self-Cross-Linked PGP-POEM Comb Copolymer Membranes for CO ₂ Capture. Macromolecules, 2017, 50, 8938-8947.	2.2	28
14	Metal-organic frameworks based membranes for liquid separation. Chemical Society Reviews, 2017, 46, 7124-7144.	18.7	557
15	A graphene-like membrane with an ultrahigh water flux for desalination. Nanoscale, 2017, 9, 18951-18958.	2.8	46
16	Preparation of large, ultra-flexible and free-standing nanomembranes of metal oxide-polymer composite and their gas permeation properties. Clean Energy, 2017, 1, 80-89.	1.5	4
17	A scalable graphene-based membrane. Nature Nanotechnology, 2017, 12, 1022-1023.	15.6	15
18	Toward the Fabrication of Advanced Nanofiltration Membranes by Controlling Morphologies and Mesochannel Orientations of Hexagonal Lyotropic Liquid Crystals. Membranes, 2017, 7, 37.	1.4	12

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19	Recent Advances in the Fabrication of Membranes Containing α -celon Pairs for Nanofiltration Processes. <i>Polymers</i> , 2017, 9, 715.	2.0	34
20	Efficient dye removal from aqueous solution by high-performance electrospun nanofibrous membranes through incorporation of SiO ₂ nanoparticles. <i>Journal of Cleaner Production</i> , 2018, 183, 1197-1206.	4.6	121
21	Facile Construction of Long-Lasting Antibacterial Membrane by Using an Orientated Halloysite Nanotubes Interlayer. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3235-3245.	1.8	17
22	Preparation and characterization of SLS-CNT/PES ultrafiltration membrane with antifouling and antibacterial properties. <i>Journal of Membrane Science</i> , 2018, 548, 459-469.	4.1	132
23	Nafion/IL hybrid membranes with tuned nanostructure for enhanced CO ₂ separation: effects of ionic liquid and water vapor. <i>Green Chemistry</i> , 2018, 20, 1391-1404.	4.6	59
24	A strain-controlled C ₂ N monolayer membrane for gas separation in PEMFC application. <i>Applied Surface Science</i> , 2018, 441, 408-414.	3.1	33
25	Influence of CNT-rGO composite structures on their permeability and selectivity for membrane water treatment. <i>Journal of Membrane Science</i> , 2018, 551, 326-332.	4.1	40
26	Adsorption-Assisted Interfacial Polymerization toward Ultrathin Active Layers for Ultrafast Organic Permeation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10445-10453.	4.0	32
27	Sorption-enhanced membrane materials for gas separation: a road less traveled. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 50-59.	3.8	28
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30	Creating cross-linked lamellar block copolymer supporting layers for biomimetic membranes. <i>Faraday Discussions</i> , 2018, 209, 179-191.	1.6	15
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36	Combined Effects of Surface Charge and Pore Size on Co-Enhanced Permeability and Ion Selectivity through RGO-OCNT Nanofiltration Membranes. <i>Environmental Science & Technology</i> , 2018, 52, 4827-4834.	4.6	79

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38	Role of filled PLGA in improving enantioselectivity of Glu-GO/PLGA composite membranes. <i>Journal of Membrane Science</i> , 2018, 555, 398-406.	4.1	46
39	Increasing salt size selectivity in low water content polymers via polymer backbone dynamics. <i>Journal of Membrane Science</i> , 2018, 552, 43-50.	4.1	24
40	Highly rectified ion transport through 2D WSe ₂ /MoS ₂ bi-layered membranes. <i>Chinese Chemical Letters</i> , 2018, 29, 892-894.	4.8	29
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47	Membrane Surface Modification Using Thiol-Containing Zwitterionic Polymers via Bioadhesive Polydopamine. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2336-2345.	1.8	49
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51	Lewis-Acid-Catalyzed Interfacial Polymerization of Covalent Organic Framework Films. <i>CheM</i> , 2018, 4, 308-317.	5.8	364
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61	Role of membrane pore polymerization conditions for pH responsive behavior, catalytic metal nanoparticle synthesis, and PCB degradation. <i>Journal of Membrane Science</i> , 2018, 555, 348-361.	4.1	33
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81	The role of halogens in polychlorotrifluoroethylene (PCTFE) in membrane gas separations. <i>Journal of Membrane Science</i> , 2018, 548, 380-389.	4.1	20
82	Coarse-grained molecular dynamics simulation of activated penetrant transport in glassy polymers. <i>Soft Matter</i> , 2018, 14, 440-447.	1.2	31
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1076	Fabrication Strategies of Conjugated Microporous Polymer Membranes for Molecular Separation. <i>Acta Chimica Sinica</i> , 2022, 80, 168.	0.5	1
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