

Pebax®/polyethylene glycol blend thin film composite
Performance with mixed gases

Separation and Purification Technology

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Tailor-made Polymeric Membranes based on Segmented Block Copolymers for CO ₂ Separation. <i>Advanced Functional Materials</i> , 2008, 18, 2815-2823.	14.9	221
2	Polymeric membranes for the hydrogen economy: Contemporary approaches and prospects for the future. <i>Journal of Membrane Science</i> , 2009, 327, 18-31.	8.2	313
3	Gas permeability and free volume in poly(amide-b-ethylene oxide)/polyethylene glycol blend membranes. <i>Journal of Membrane Science</i> , 2009, 339, 177-183.	8.2	124
4	Water vapor/propylene sorption and diffusion behavior in PVA-P(AA-AMPS) blend membranes by GCMC and MD simulation. <i>Chemical Engineering Science</i> , 2009, 64, 5192-5197.	3.8	27
5	Concepts and investment cost analyses of multi-stage membrane systems used in post-combustion processes. <i>Energy Procedia</i> , 2009, 1, 269-278.	1.8	50
6	Organic-Inorganic CO ₂ Selective Membranes Prepared by the Sol-Gel Process. <i>Separation Science and Technology</i> , 2009, 44, 3392-3411.	2.5	8
8	Nanometric thin film membranes manufactured on square meter scale: ultra-thin films for CO ₂ capture. <i>Nanotechnology</i> , 2010, 21, 395301.	2.6	202
9	A novel gas purification system for biologically produced gases. <i>Journal of Cleaner Production</i> , 2010, 18, S43-S50.	9.3	23
10	Quaternary ammonium membrane materials for CO ₂ separation. <i>Journal of Membrane Science</i> , 2010, 359, 44-53.	8.2	82
11	Tuning of mass transport properties of multi-block copolymers for CO ₂ capture applications. <i>Journal of Membrane Science</i> , 2010, 359, 54-63.	8.2	66
12	Syndiotactic polypropylene copolymer membranes and their performance for oxygen separation. <i>Journal of Membrane Science</i> , 2010, 348, 34-40.	8.2	7
13	Synthesis and characterization of poly(ether-block-amide) and application as permanent antistatic agent. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2448-2453.	2.6	13
14	Poly(ethylene glycol) and poly(dimethyl siloxane): Combining their advantages into efficient CO ₂ gas separation membranes. <i>Journal of Membrane Science</i> , 2010, 352, 126-135.	8.2	247
15	Design, synthesis, characterization and optimization of PTT-b-PEO copolymers: A new membrane material for CO ₂ separation. <i>Journal of Membrane Science</i> , 2010, 362, 407-416.	8.2	90
16	Synthesis and characterization of poly(ethylene oxide) containing copolyimides for hydrogen purification. <i>Polymer</i> , 2010, 51, 4077-4086.	3.8	80
17	Multi-stage gas separation membrane processes used in post-combustion capture: Energetic and economic analyses. <i>Journal of Membrane Science</i> , 2010, 359, 160-172.	8.2	165
18	Gas separation membranes for zero-emission fossil power plants: MEM-BRAIN. <i>Journal of Membrane Science</i> , 2010, 359, 149-159.	8.2	111
20	Advanced Polymeric and Organic-Inorganic Membranes for Pressure-Driven Processes. , 2010, , 113-129.		8

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21	Creating Poly(ethylene oxide)-Based Polyelectrolytes for Thin Film Construction Using an Ionic Linker Strategy. <i>Chemistry of Materials</i> , 2010, 22, 1285-1287.	6.7	15
22	Subambient Temperature CO ₂ and Light Gas Permeation Through Segmented Block Copolymers with Tailored Soft Phase. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 551-560.	8.0	51
23	Liquidlike Poly(ethylene glycol) Supported in the Organic-Inorganic Matrix for CO ₂ Removal. <i>Macromolecules</i> , 2011, 44, 5268-5280.	4.8	41
24	Synthesis and Characterization of Polyimide Mixed Matrix Membranes. <i>Separation Science and Technology</i> , 2011, 46, 2138-2147.	2.5	25
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26	Effect of End Groups and Grafting on the CO ₂ Separation Performance of Poly(ethylene Terephthalate) Overlayered on Poly(ethylene Glycol) Membranes. <i>Journal of Membrane Science</i> , 2011, 381, 211-220.	4.8	46
27	Multi-layer composite hollow fiber membranes derived from poly(ethylene glycol) (PEG) containing hybrid materials for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2011, 381, 211-220.	8.2	54
28	Mixed-gas CO ₂ /CH ₄ and CO ₂ /N ₂ separation with sulfonated PEEK membranes. <i>Journal of Membrane Science</i> , 2011, 372, 87-96.	8.2	80
29	Highly hydrophilic, rubbery membranes for CO ₂ capture and dehydration of flue gas. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 26-36.	4.6	83
30	Silica Nanohybrid Membranes with High CO ₂ Affinity for Green Hydrogen Purification. <i>Advanced Energy Materials</i> , 2011, 1, 634-642.	19.5	59
31	Membrane processes and postcombustion carbon dioxide capture: Challenges and prospects. <i>Chemical Engineering Journal</i> , 2011, 171, 782-793.	12.7	195
32	Testing of nanostructured gas separation membranes in the flue gas of a post-combustion power plant. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 37-48.	4.6	32
33	Gas permeation properties of poly(urethane-urea)s containing different polyethers. <i>Journal of Membrane Science</i> , 2011, 369, 49-58.	8.2	98
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37	Polymeric membranes for post-combustion carbon dioxide (CO ₂) capture. , 2011, , 160-183.		1
38	Economic analysis of membrane use in industrial applications. , 2011, , 90-109.		4

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39	Solubility of CO ₂ in aqueous TSP. <i>Fluid Phase Equilibria</i> , 2012, 328, 21-24.	2.5	16
40	Gas separation characteristics of new membrane materials based on poly(ethylene glycol)-crosslinked polymers and ionic liquids. <i>Petroleum Chemistry</i> , 2012, 52, 494-498.	1.4	21
41	Poly (amide-6-b-ethylene oxide) multilayer composite membrane for carbon dioxide separation. <i>International Journal of Greenhouse Gas Control</i> , 2012, 8, 111-120.	4.6	90
42	Progress and trends in CO ₂ capture/separation technologies: A review. <i>Energy</i> , 2012, 46, 431-441.	8.8	735
43	Some approaches for high performance polymer based membranes for gas separation: block copolymers, carbon molecular sieves and mixed matrix membranes. <i>RSC Advances</i> , 2012, 2, 10745.	3.6	155
44	Symmetric and Asymmetric Zeolitic Imidazolate Frameworks (ZIFs)/Polybenzimidazole (PBI) Nanocomposite Membranes for Hydrogen Purification at High Temperatures. <i>Advanced Energy Materials</i> , 2012, 2, 1358-1367.	19.5	138
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49	Recent Applications of Polymer Blends in Gas Separation Membranes. <i>Chemical Engineering and Technology</i> , 2013, 36, 1838-1846.	1.5	151
50	On the influence of the proportion of PEO in thermally controlled phase segregation of copoly(ether-imide)s for gas separation. <i>Journal of Membrane Science</i> , 2013, 434, 26-34.	8.2	27
51	Influence of the PEO length in gas separation properties of segregating aromatic-aliphatic copoly(ether-imide)s. <i>Chemical Engineering Science</i> , 2013, 104, 574-585.	3.8	16
52	High performance polymer membranes for CO ₂ separation. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 238-244.	7.8	84
53	Highly permeable membrane materials for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13769.	10.3	64
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56	Comparative Investigation of Polymer Membranes for Post-combustion Capture. <i>Energy Procedia</i> , 2013, 37, 1125-1134.	1.8	16

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58	Permeation Characteristics of Light Hydrocarbons Through Poly(amide-6- $\hat{1}^2$ -ethylene oxide) Multilayer Composite Membranes. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 232-237.	3.5	2
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62	Recent progress in the design of advanced PEO-containing membranes for CO ₂ removal. <i>Progress in Polymer Science</i> , 2013, 38, 1089-1120.	24.7	259
63	Biohydrogen purification by membranes: An overview on the operational conditions affecting the performance of non-porous, polymeric and ionic liquid based gas separation membranes. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9673-9687.	7.1	136
64	A study on the relationship between preparation condition and properties/performance of polyamide TFC membrane by IR, DSC, TGA, and SEM techniques. <i>Desalination and Water Treatment</i> , 2013, 51, 586-596.	1.0	20
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66	Carbon dioxide selective mixed matrix composite membrane containing ZIF-7 nano-fillers. <i>Journal of Membrane Science</i> , 2013, 425-426, 235-242.	8.2	387
67	Biohydrogen purification using a commercial polyimide membrane module: Studying the effects of some process variables. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15092-15099.	7.1	55
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71	Pebax-PEG-MWCNT hybrid membranes with enhanced CO ₂ capture properties. <i>Journal of Membrane Science</i> , 2014, 460, 62-70.	8.2	223
72	Fixed facilitated transport of CO ₂ through integrally-skinned asymmetric polyethersulfone membrane using a novel synthesized Poly (acrylonitrile-co-N, N-Dimethylaminopropyl acrylamide). <i>Chemical Engineering Journal</i> , 2014, 236, 263-273.	12.7	31
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74	Efficient CO ₂ capture by humidified polymer electrolyte membranes with tunable water state. <i>Energy and Environmental Science</i> , 2014, 7, 1489.	30.8	119

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83	Activated copper nanoparticles by 1-butyl-3-methyl imidazolium nitrate for CO ₂ separation. Chemical Engineering Journal, 2014, 252, 263-266.	12.7	20
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96	Porous ceramic hollow fiber-supported Pebax/PEGDME composite membrane for CO ₂ separation from biohythane. <i>RSC Advances</i> , 2015, 5, 60453-60459.	3.6	11
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98	Effect of Fabrication and Operation Conditions on CO ₂ Separation Performance of PEO-PA Block Copolymer Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7273-7283.	3.7	54
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116	Recent advances in multi-layer composite polymeric membranes for CO ₂ separation: A review. <i>Green Energy and Environment</i> , 2016, 1, 102-128.	8.7	215
118	Blends of Fluorinated Additives with Highly Selective Thin-Film Composite Membranes to Increase CO ₂ Permeability for CO ₂ /N ₂ Gas Separation Applications. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8364-8372.	3.7	27
119	Effect of the reactive amino and glycidyl ether terminated polyethylene oxide additives on the gas transport properties of Pebax® bulk and thin film composite membranes. <i>RSC Advances</i> , 2016, 6, 11763-11772.	3.6	24
120	Energetic and economic evaluation of membrane-based carbon capture routes for power plant processes. <i>International Journal of Greenhouse Gas Control</i> , 2016, 44, 124-139.	4.6	36
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126	Development of novel fluorinated additives for high performance CO ₂ separation thin-film composite membranes. <i>Journal of Membrane Science</i> , 2016, 499, 191-200.	8.2	63
127	Impact of tuning CO ₂ -philicity in polydimethylsiloxane-based membranes for carbon dioxide separation. <i>Journal of Membrane Science</i> , 2017, 530, 213-219.	8.2	31
128	Probe Into the Influence of Crosslinking on CO ₂ Permeation of Membranes. <i>Scientific Reports</i> , 2017, 7, 40082.	3.3	4
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137	Polyurethanes containing Poly(arylene ether sulfone) and Poly(ethylene oxide) segments for gas separation membranes. <i>Polymer</i> , 2017, 118, 256-267.	3.8	21
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145	Evaluating the effects of CO ₂ capture benchmarks on efficiency and costs of membrane systems for post-combustion capture: A parametric simulation study. <i>International Journal of Greenhouse Gas Control</i> , 2017, 63, 449-461.	4.6	23
146	Solvent-Templated Block Ionomers for Base- and Acid-Gas Separations: Effect of Humidity on Ammonia and Carbon Dioxide Permeation. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700854.	3.7	25
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148	Effects of low and high molecular mass PEG incorporation into different types of poly(ether-b-amide) copolymers on the permeation properties of CO ₂ and CH ₄ . <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	32
149	Improved CO ₂ /CH ₄ separation using a nanocomposite ionic liquid gel membrane. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 275-288.	4.4	44
150	Enhancement of CO ₂ capture by polyethylene glycol-based polyurethane membranes. <i>Journal of Membrane Science</i> , 2017, 542, 143-149.	8.2	46

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