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MEMBRANES FOR GAS SEPARATION

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#	Paper	IF	Citations
89	Introduction to membrane technology. 2005 , 1-56		4
88	Improvement of proline chiral stationary phases by varying peptide length and linker. <i>Journal of Chromatography A</i> , 2006 , 1113, 109-15	4.5	31
87	Gas transport properties of new aromatic cardo poly(aryl ether ketone)s. <i>Journal of Membrane Science</i> , 2006 , 283, 393-398	9.6	41
86	Polysaccharide derivatives as useful chiral stationary phases in high-performance liquid chromatography. <i>Pure and Applied Chemistry</i> , 2007 , 79, 1561-1573	2.1	99
85	Integrated microreaction system for optical resolution of racemic amino acids. <i>Lab on A Chip</i> , 2007 , 7, 366-72	7.2	57
84	Application of a periodic table for the genetic code to influenza A/H3N2 virus. <i>Nature Precedings</i> , 2007 ,		
83	Enantiomeric separation and determination of absolute stereochemistry of asymmetric molecules in drug discovery: building chiral technology toolboxes. <i>Chirality</i> , 2007 , 19, 658-82	2.1	85
82	Enantioseparation of phenylglycinol in chiral-modified zeolite HY: a molecular simulation study. <i>Chirality</i> , 2007 , 19, 514-7	2.1	5
81	Molecular modeling of chiral-modified zeolite HY employed in enantioselective separation. <i>Chirality</i> , 2007 , 19, 508-13	2.1	9
80	Electrochemical hydrogen pumping using a high-temperature polybenzimidazole (PBI) membrane. <i>Journal of Power Sources</i> , 2008 , 177, 478-484	8.9	65
79	Hydrogen purification using a SAPO-34 membrane. <i>Journal of Membrane Science</i> , 2008 , 307, 277-283	9.6	125
78	Membranes and membrane processes for chiral resolution. <i>Chemical Society Reviews</i> , 2008 , 37, 1243-63	58.5	220
77	Chiral Modification of Solid Surfaces: A Molecular View \square <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16196-16203	13.28	
76	Direct high-performance liquid chromatographic separation of the enantiomers of venlafaxine and 11 analogs using amylose-derived chiral stationary phases. <i>Chirality</i> , 2009 , 21, 569-77	2.1	7
75	Identification and characterization of solid-state nature of 2-chloromandelic acid. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 1835-44	3.9	17
74	The influence of temperature on the sorption and permeability of CO ₂ in poly(fluoroalkoxyphosphazene) membranes. <i>Journal of Membrane Science</i> , 2009 , 344, 199-203	9.6	9
73	Resolution of phthalans obtained by ortho-lithiation of aryloxiranes by enantioselective high-performance liquid chromatography: performances of various chiral stationary phases. <i>Journal of Chromatography A</i> , 2009 , 1216, 3048-53	4.5	9

72	Effects of sulfone/ketone in poly(phthalazinone ether sulfone ketone) on the gas permeation of their derived carbon membranes. <i>Journal of Membrane Science</i> , 2009 , 330, 319-325	9.6	32
71	Sulfated and sulfonated polysaccharide as chiral stationary phases for capillary electrochromatography and capillary electrochromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2009 , 1216, 857-72	4.5	29
70	State-of-the-art Adsorption and Membrane Separation Processes for Carbon Dioxide Production from Carbon Dioxide Emitting Industries. <i>Separation Science and Technology</i> , 2009 , 44, 1273-1421	2.5	231
69	Porous graphene as the ultimate membrane for gas separation. <i>Nano Letters</i> , 2009 , 9, 4019-24	11.5	733
68	Electrochemical Sensor for Measurement of Volatile Organic Compounds Employing Square Wave Perturbation Voltage. <i>Metrology and Measurement Systems</i> , 2010 , 17, 637-649		9
67	Pore Network Modeling of Nanoporous Ceramic Membrane for Hydrogen Separation. <i>Separation Science and Technology</i> , 2010 , 45, 2028-2038	2.5	3
66	Helium Separation Using Porous Graphene Membranes. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2284-2287	6.4	212
65	Hybrid Membrane-Cryogenic Distillation Air Separation Process for Oxygen Production. <i>Separation Science and Technology</i> , 2011 , 46, 1539-1545	2.5	11
64	Separation of Hydrogen and Nitrogen Gases with Porous Graphene Membrane. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23261-23266	3.8	298
63	Detection of chiral defects in crystalline organic solids using solid-state NMR spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 1879-91	3.9	10
62	A Prototype of Electrochemical Sensor for Measurements of Carbonyl Compounds in Air. <i>Electroanalysis</i> , 2011 , 23, 1958-1966	3	7
61	Microporous carbon membranes from sulfonated poly(phthalazinone ether sulfone ketone): Preparation, characterization, and gas permeation. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 1190-1197	1.9	6
60	Ba-SAPO-34 membrane synthesized from microwave heating and its performance for CO ₂ /CH ₄ gas separation. <i>Chemical Engineering Journal</i> , 2011 , 171, 1053-1059	14.7	71
59	Graphdiyne as Hydrogen Purification Membrane. <i>Chinese Journal of Chemical Physics</i> , 2012 , 25, 434-440	0.9	21
58	Microwave heating-synthesized zeolite membrane for CO ₂ /CH ₄ separation. <i>Desalination and Water Treatment</i> , 2012 , 47, 139-149		7
57	Effect of enantiomeric ratio and preparation method on proline crystal form. <i>CrystEngComm</i> , 2012 , 14, 2479-2488	3.3	7
56	Porous graphene: Properties, preparation, and potential applications. <i>Science Bulletin</i> , 2012 , 57, 2948-2955		77
55	Enantiomerically pure compounds related to chiral hydroxy acids derived from renewable resources. <i>RSC Advances</i> , 2012 , 2, 9257	3.7	13

54	The growth of SAPO 34 membrane layer on support surface for gas permeation application. <i>Ceramics International</i> , 2012 , 38, 333-340	5.1	10
53	Colorimetric enantioselective recognition of chiral secondary alcohols via hydrogen bonding to a chiral metallocene containing chemosensor. <i>Chemical Communications</i> , 2013 , 49, 8314-6	5.8	14
52	Helium separation via porous silicene based ultimate membrane. <i>Nanoscale</i> , 2013 , 5, 9062-6	7.7	82
51	Effects of Thioether Content on the Solubility and Thermal Properties of Aromatic Polyesters. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16577-16584	3.9	15
50	Water-solubility-driven separation of gases using graphene membrane. <i>Journal of Membrane Science</i> , 2013 , 428, 546-553	9.6	44
49	Porous silicene as a hydrogen purification membrane. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5753-7	11.0	
48	Graphene with line defect as a membrane for gas separation: Design via a first-principles modeling. <i>Surface Science</i> , 2013 , 607, 153-158	1.8	52
47	Enantioselective resolution of chiral drugs using BSA functionalized magnetic nanoparticles. <i>Separation and Purification Technology</i> , 2013 , 107, 11-18	8.3	46
46	Enantiomeric separation of original heterocyclic organophosphorus compounds in supercritical fluid chromatography. <i>Chirality</i> , 2013 , 25, 230-7	2.1	12
45	Graphene Synthesis. 2013 , 45-72		
44	Formation and characterization of perfluorocyclobutyl polymer thin films. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 3226-3236	2.9	11
43	Separation of sulfur hexafluoride (SF ₆) from ternary gas mixtures using commercial polysulfone (PSf) hollow fiber membranes. <i>Journal of Membrane Science</i> , 2014 , 452, 311-318	9.6	23
42	A closer look at the development and performance of organic/inorganic membranes using 2,4,6-tris[3(triethoxysilyl)-1-propoxy]-1,3,5-triazine (TTESPT). <i>RSC Advances</i> , 2014 , 4, 12404	3.7	11
41	Capture of bulk CO ₂ from methane with the presence of heavy hydrocarbon using membrane process. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 22, 213-222	4.2	35
40	Separation of greenhouse gases (SF ₆ , CF ₄ and CO ₂) in an industrial flue gas using pilot-scale membrane. <i>Separation and Purification Technology</i> , 2015 , 148, 15-24	8.3	12
39	Theoretical Prediction of Hydrogen Separation Performance of Two-Dimensional Carbon Network of Fused Pentagon. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28502-7	9.5	28
38	Introduction to Membrane Technology. 2015 , 1-80		11
37	MOF based MMMs with enhanced selectivity due to hindered linker distortion. <i>Journal of Membrane Science</i> , 2015 , 492, 181-186	9.6	50

36	Gas Separation Membranes. 2015 ,		97
35	Defect-Mediated Reduction in Barrier for Helium Tunneling through Functionalized Graphene Nanopores. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20940-20948	3.8	13
34	Effect of recycle ratio on the cost of natural gas processing in countercurrent hollow fiber membrane system. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 542-551	6.3	22
33	Membranes for CO ₂ Separation. 2016 , 237-292		1
32	Heptazine-based graphitic carbon nitride as an effective hydrogen purification membrane. <i>RSC Advances</i> , 2016 , 6, 52377-52383	3.7	52
31	Separation of carbon dioxide and nitrogen gases through modified boron nitride nanosheets as a membrane: insights from molecular dynamics simulations. <i>RSC Advances</i> , 2016 , 6, 94911-94920	3.7	30
30	High-Performance Materials Based on Lithium-Containing Hydrotalcite-Bayerite Composites for Biogas Upgrade. <i>Energy & Fuels</i> , 2016 , 30, 7474-7480	4.1	4
29	Theoretical study of a tunable and strain-controlled nanoporous graphenylene membrane for multifunctional gas separation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15015-15021	13	47
28	High-pressure CO ₂ /N ₂ and CO ₂ /CH ₄ separation using dense polysulfone-supported ionic liquid membranes. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 472-485	4.6	18
27	High performance MoS ₂ membranes: effects of thermally driven phase transition on CO ₂ separation efficiency. <i>Energy and Environmental Science</i> , 2016 , 9, 1224-1228	35.4	74
26	Two-Dimensional Covalent Triazine Framework Membrane for Helium Separation and Hydrogen Purification. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8694-701	9.5	96
25	Exploration of nanoporous graphene membranes for the separation of N ₂ from CO ₂ : a multi-scale computational study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8352-8	3.6	46
24	Excellent membranes for hydrogen purification: Dumbbell-shaped porous ggraphynes. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5168-5176	6.7	26
23	gPhosphorene: a new allotrope of phosphorene. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2402-2408,6		53
22	Two-dimensional porous polyphthalocyanine (PPc) as an efficient gas-separation membrane for ammonia synthesis. <i>Current Applied Physics</i> , 2017 , 17, 1765-1770	2.6	4
21	Two-dimensional graphene oxide membrane for H ₂ /CH ₄ separation: Insights from molecular dynamics simulations. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30653-30660	6.7	18
20	Mechanism and Prediction of Gas Permeation through Sub-Nanometer Graphene Pores: Comparison of Theory and Simulation. <i>ACS Nano</i> , 2017 , 11, 7974-7987	16.7	78
19	Influence of surface-treated SiO ₂ on the transport behavior of O ₂ and N ₂ through polydimethylsiloxane nanocomposite membrane. <i>Separation and Purification Technology</i> , 2017 , 175, 358-364	8.3	15

18	Reactive molecular dynamic simulations on the gas separation performance of porous graphene membrane. <i>Scientific Reports</i> , 2017 , 7, 16561	4.9	24
17	An Exploration of Induced Supramolecular Chirality Through Association of Chiral Ammonium Ions and Tartrates with the Achiral Host Cucurbit[7]uril. <i>Israel Journal of Chemistry</i> , 2018 , 58, 479-486	3.4	3
16	Water membrane for carbon dioxide separation. <i>Separation and Purification Technology</i> , 2018 , 203, 268-273	3.3	5
15	Zeolitic Imidazolate Framework-8 Membrane for H ₂ /CO ₂ Separation: Experimental and Modeling. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 318, 012002	0.4	1
14	Nanostructured photocatalysis in the visible spectrum for the decontamination of air and water. <i>International Materials Reviews</i> , 2018 , 63, 257-282	16.1	30
13	The mechanisms study of the porous graphene for the purification of the mixed gases: A multi-scale computational method. <i>Computational Materials Science</i> , 2018 , 143, 277-285	3.2	9
12	Air separation with graphene mediated by nanowindow-rim concerted motion. <i>Nature Communications</i> , 2018 , 9, 1812	17.4	42
11	Ethylene diffusion in crystals of zeolitic imidazole Framework-11 embedded in polymers to form mixed-matrix membranes. <i>Microporous and Mesoporous Materials</i> , 2019 , 274, 163-170	5.3	13
10	Ion-Exchanged Silicoaluminophosphate-34 Membrane for Efficient CO ₂ /N ₂ Separation with Low CO ₂ Concentration in the Gas Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 729-735	3.9	8
9	Enhanced quality of transfer-free graphene membrane for He/CH ₄ separation. <i>Separation and Purification Technology</i> , 2020 , 232, 115972	8.3	5
8	Graphenylene membrane: An excellent candidate for hydrogen purification and helium separation. <i>Carbon</i> , 2020 , 157, 779-787	10.4	15
7	Highly CO ₂ selective mixed matrix membranes of polysulfone based on hetaryl modified SBA-16 particles. <i>Separation and Purification Technology</i> , 2021 , 258, 117999	8.3	6
6	A Review on Glassy and Rubbery Polymeric Membranes for Natural Gas Purification. <i>ChemBioEng Reviews</i> , 2021 , 8, 90-109	5.2	3
5	Thermodynamic and environmental study on synthetic natural gas production in power to gas approaches involving biomass gasification and anaerobic digestion. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 3284-3284	6.7	2
4	Tailoring Crosslinked Polyether Networks for Separation of CO from Light Gases. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100160	4.8	2
3	Introduction. 2015 , 1-10		2
2	H-passivated nanoporous graphene membranes for CO ₂ /N ₂ separation: A reactive molecular dynamic simulation. <i>Journal of Molecular Structure</i> , 2022 , 1253, 132255	3.4	0
1	Annealing and TMOS coating on PSF/ZTC mixed matrix membrane for enhanced CO ₂ /CH ₄ and H ₂ /CH ₄ separation. <i>Royal Society Open Science</i> , 2022 , 9,	3.3	2

