

Ho Bum Park

List of Publications by Year in descending order

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Maximizing the right stuff: The trade-off between membrane permeability and selectivity. <i>Science</i> , 2017, 356, .	12.6	1,864
2	Selective Gas Transport Through Few-Layered Graphene and Graphene Oxide Membranes. <i>Science</i> , 2013, 342, 91-95.	12.6	1,289
3	Polymers with Cavities Tuned for Fast Selective Transport of Small Molecules and Ions. <i>Science</i> , 2007, 318, 254-258.	12.6	919
4	Polymer nanosieve membranes for CO ₂ -capture Applications. <i>Nature Materials</i> , 2011, 10, 372-375.	27.5	732
5	Water permeability and water/salt selectivity tradeoff in polymers for desalination. <i>Journal of Membrane Science</i> , 2011, 369, 130-138.	8.2	641
6	Advances in high permeability polymeric membrane materials for CO ₂ separations. <i>Energy and Environmental Science</i> , 2012, 5, 7306-7322.	30.8	451
7	Preparation and characterization of crosslinked PVA/SiO ₂ hybrid membranes containing sulfonic acid groups for direct methanol fuel cell applications. <i>Journal of Membrane Science</i> , 2004, 240, 37-48.	8.2	402
8	Crosslinked poly(vinyl alcohol) membranes containing sulfonic acid group: proton and methanol transport through membranes. <i>Journal of Membrane Science</i> , 2004, 238, 143-151.	8.2	383
9	Graphene and graphene oxide and their uses in barrier polymers. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	361
10	Influence of polydopamine deposition conditions on pure water flux and foulant adhesion resistance of reverse osmosis, ultrafiltration, and microfiltration membranes. <i>Polymer</i> , 2010, 51, 3472-3485.	3.8	338
11	Thermally rearranged (TR) polymer membranes for CO ₂ separation. <i>Journal of Membrane Science</i> , 2010, 359, 11-24.	8.2	330
12	A bioinspired fouling-resistant surface modification for water purification membranes. <i>Journal of Membrane Science</i> , 2012, 413-414, 82-90.	8.2	295
13	Importance of Proton Conductivity Measurement in Polymer Electrolyte Membrane for Fuel Cell Application. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7617-7626.	3.7	228
14	Highly Chlorine-Tolerant Polymers for Desalination. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6019-6024.	13.8	220
15	Proton conductivity and methanol transport behavior of cross-linked PVA/PAA/silica hybrid membranes. <i>Solid State Ionics</i> , 2005, 176, 117-126.	2.7	219
16	Oxygen Concentration Control of Dopamine-Induced High Uniformity Surface Coating Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 233-238.	8.0	206
17	Effect of hydrogen peroxide on properties of graphene oxide in Hummers method. <i>Carbon</i> , 2019, 141, 515-522.	10.3	184
18	Water Sorption, Proton Conduction, and Methanol Permeation Properties of Sulfonated Polyimide Membranes Cross-Linked with N,N-Bis(2-hydroxyethyl)-2-aminoethanesulfonic Acid (BES). <i>Macromolecules</i> , 2006, 39, 755-764.	4.8	155

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19	Thermally rearranged (TR) poly(benzoxazole-co-pyrrolone) membranes tuned for high gas permeability and selectivity. <i>Journal of Membrane Science</i> , 2010, 349, 358-368.	8.2	149
20	ZIF-8 particle size effects on reverse osmosis performance of polyamide thin-film nanocomposite membranes: Importance of particle deposition. <i>Journal of Membrane Science</i> , 2019, 570-571, 23-33.	8.2	146
21	High Performance Polyimide with High Internal Free Volume Elements. <i>Macromolecular Rapid Communications</i> , 2011, 32, 579-586.	3.9	136
22	Relationship between chemical structure of aromatic polyimides and gas permeation properties of their carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , 2004, 229, 117-127.	8.2	131
23	Highly gas permeable and microporous polybenzimidazole membrane by thermal rearrangement. <i>Journal of Membrane Science</i> , 2010, 357, 143-151.	8.2	130
24	Tunable semi-permeability of graphene-based membranes by adjusting reduction degree of laminar graphene oxide layer. <i>Journal of Membrane Science</i> , 2018, 547, 73-79.	8.2	128
25	Highly permeable and selective poly(benzoxazole-co-imide) membranes for gas separation. <i>Journal of Membrane Science</i> , 2010, 350, 301-309.	8.2	124
26	Gas separation properties of polysiloxane/polyether mixed soft segment urethane urea membranes. <i>Journal of Membrane Science</i> , 2002, 204, 257-269.	8.2	123
27	Carbon molecular sieve membranes derived from thermally labile polymer containing blend polymers and their gas separation properties. <i>Journal of Membrane Science</i> , 2004, 243, 9-17.	8.2	123
28	Experimental Evidence of Rapid Water Transport through Carbon Nanotubes Embedded in Polymeric Desalination Membranes. <i>Small</i> , 2014, 10, 2653-2660.	10.0	123
29	Synthesis and crosslinking of partially disulfonated poly(arylene ether sulfone) random copolymers as candidates for chlorine resistant reverse osmosis membranes. <i>Polymer</i> , 2008, 49, 2243-2252.	3.8	120
30	Gas separation properties of carbon molecular sieve membranes derived from polyimide/polyvinylpyrrolidone blends: effect of the molecular weight of polyvinylpyrrolidone. <i>Journal of Membrane Science</i> , 2005, 251, 159-167.	8.2	119
31	Effect of crosslinked chain length in sulfonated polyimide membranes on water sorption, proton conduction, and methanol permeation properties. <i>Journal of Membrane Science</i> , 2006, 285, 432-443.	8.2	114
32	Fundamental salt and water transport properties in directly copolymerized disulfonated poly(arylene ether sulfone) membranes. <i>Journal of Membrane Science</i> , 2007, 303, 258-266.	8.2	112
33	High-performance polymers for membrane CO ₂ /N ₂ separation. <i>Chemistry - A European Journal</i> , 2016, 22, 15980-15990.	3.3	112
34	High-performance CO ₂ -philic graphene oxide membranes under wet-conditions. <i>Chemical Communications</i> , 2014, 50, 13563-13566.	4.1	105
35	Sulfonated poly(arylene ether sulfone)-silica nanocomposite membrane for direct methanol fuel cell (DMFC). <i>Journal of Membrane Science</i> , 2007, 303, 258-266.	8.2	102
36	Graphene-based membranes: status and prospects. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150024.	3.4	100

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37	Preparation and characterization of carbon molecular sieve membranes derived from BTDA and ODA polyimide and their gas separation properties. <i>Journal of Membrane Science</i> , 2005, 255, 265-273.	8.2	97
38	Imide-siloxane block copolymer/silica hybrid membranes: preparation, characterization and gas separation properties. <i>Journal of Membrane Science</i> , 2003, 220, 59-73.	8.2	96
39	Graphene and graphene oxide membranes for gas separation applications. <i>Current Opinion in Chemical Engineering</i> , 2017, 16, 39-47.	7.8	93
40	Water and ion sorption, diffusion, and transport in graphene oxide membranes revisited. <i>Journal of Membrane Science</i> , 2017, 544, 425-435.	8.2	93
41	Water uptake, transport and structure characterization in poly(ethylene glycol) diacrylate hydrogels. <i>Journal of Membrane Science</i> , 2010, 347, 197-208.	8.2	88
42	Synthesis of a new type of surface modifying macromolecules (nSMM) and characterization and testing of nSMM blended membranes for membrane distillation. <i>Journal of Membrane Science</i> , 2006, 277, 177-185.	8.2	86
43	Synthesis and characterization of sulfonated poly(arylene ether sulfone) copolymers containing carboxyl groups for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2006, 278, 428-436.	8.2	85
44	Carbon Defect Characterization of Nitrogen-Doped Reduced Graphene Oxide Electrocatalysts for the Two-Electron Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2019, 31, 3967-3973.	6.7	85
45	Effect of PEG-MEA and graphene oxide additives on the performance of Pebax®1657 mixed matrix membranes for CO ₂ separation. <i>Journal of Membrane Science</i> , 2019, 572, 300-308.	8.2	84
46	Highly porous carbon nanotube/polysulfone nanocomposite supports for high-flux polyamide reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2017, 539, 441-450.	8.2	81
47	Fabrication and Characterization of Nanoporous Carbon/Silica Membranes. <i>Advanced Materials</i> , 2005, 17, 477-483.	21.0	79
48	Phase Separation and Water Channel Formation in Sulfonated Block Copolyimide. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12036-12045.	2.6	77
49	The gas separation properties of carbon molecular sieve membranes derived from polyimides having carboxylic acid groups. <i>Journal of Membrane Science</i> , 2004, 235, 139-146.	8.2	76
50	Polyamide thin-film composite membranes based on carboxylated polysulfone microporous support membranes for forward osmosis. <i>Journal of Membrane Science</i> , 2013, 445, 220-227.	8.2	76
51	Annealing effect of sulfonated polysulfone ionomer membranes on proton conductivity and methanol transport. <i>Journal of Membrane Science</i> , 2005, 247, 103-110.	8.2	70
52	Defect Engineering in Metal-Organic Frameworks Towards Advanced Mixed Matrix Membranes for Efficient Propylene/Propane Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13081-13088.	13.8	70
53	Pyrolytic carbon-silica membrane: a promising membrane material for improved gas separation. <i>Journal of Membrane Science</i> , 2003, 213, 263-272.	8.2	69
54	Fouling-tolerant polysulfone-poly(ethylene oxide) random copolymer ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2011, 379, 296-306.	8.2	68

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55	Novel Pyrolytic Carbon Membranes Containing Silica: Preparation and Characterization. Chemistry of Materials, 2002, 14, 3034-3046.	6.7	65
56	Gas diffusivity, solubility and permeability in polysulfone-poly(ethylene oxide) random copolymer membranes. Journal of Membrane Science, 2011, 372, 116-124.	8.2	65
57	Electrochemical performance of microbial fuel cells based on disulfonated poly(arylene ether) Tj ETQq1 1 0.784314_rgBT /Overlock 10	7.8	63
58	Highly Polar but Amorphous Polymers with Robust Membrane CO ₂ /N ₂ Separation Performance. Joule, 2019, 3, 1881-1894.	24.0	60
59	Fouling-Tolerant Nanofibrous Polymer Membranes for Water Treatment. ACS Applied Materials & Interfaces, 2014, 6, 14600-14607.	8.0	59
60	Preparation and characterization of PVDF/silica hybrid membranes containing sulfonic acid groups. Journal of Applied Polymer Science, 2004, 93, 209-218.	2.6	57
61	High-Performance Polyamide Thin-Film Nanocomposite Membranes Containing ZIF-8/CNT Hybrid Nanofillers for Reverse Osmosis Desalination. Industrial & Engineering Chemistry Research, 2020, 59, 5324-5332.	3.7	55
62	Two-dimensional materials: an emerging platform for gas separation membranes. Current Opinion in Chemical Engineering, 2018, 20, 28-38.	7.8	53
63	Carbon molecular sieve membranes derived from metal-substituted sulfonated polyimide and their gas separation properties. Journal of Membrane Science, 2003, 226, 145-158.	8.2	52
64	Pyrolytic carbon membranes containing silica derived from poly(imide siloxane): the effect of siloxane chain length on gas transport behavior and a study on the separation of mixed gases. Journal of Membrane Science, 2004, 235, 87-98.	8.2	52
65	Development of novel surface modified phase inversion membranes having hydrophobic surface-modifying macromolecule (nSMM) for vacuum membrane distillation. Desalination, 2010, 261, 300-312.	8.2	52
66	Separation and Purification of Lactic Acid from Fermentation Broth Using Membrane-Integrated Separation Processes. Industrial & Engineering Chemistry Research, 2017, 56, 8301-8310.	3.7	51
67	Separation of toluene/nitrogen through segmented polyurethane and polyurethane urea membranes with different soft segments. Journal of Membrane Science, 2002, 197, 283-296.	8.2	50
68	Biomimetic Selective Ion Transport through Graphene Oxide Membranes Functionalized with Ion Recognizing Peptides. Chemistry of Materials, 2015, 27, 1255-1261.	6.7	49
69	Water-stable crosslinked sulfonated polyimide-silica nanocomposite containing interpenetrating polymer network. Journal of Power Sources, 2006, 163, 339-348.	7.8	47
70	Ultrathin gutter layer for high-performance thin-film composite membranes for CO ₂ separation. Journal of Membrane Science, 2018, 566, 336-345.	8.2	47
71	Disclosing the Role of Defect-Engineered Metal-Organic Frameworks in Mixed Matrix Membranes for Efficient CO ₂ Separation: A Joint Experimental-Computational Exploration. Advanced Functional Materials, 2021, 31, 2103973.	14.9	47
72	Integrated Membrane Processes for Separation and Purification of Organic Acid from a Biomass Fermentation Process. Industrial & Engineering Chemistry Research, 2012, 51, 10207-10219.	3.7	46

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73	Preparation of organic-inorganic nanocomposite membrane using a reactive polymeric dispersant and compatibilizer: Proton and methanol transport with respect to nano-phase separated structure. <i>Journal of Membrane Science</i> , 2006, 283, 172-181.	8.2	44
74	Highly soluble polyetheramine-functionalized graphene oxide and reduced graphene oxide both in aqueous and non-aqueous solvents. <i>Carbon</i> , 2014, 75, 149-160.	10.3	40
75	Understanding of the Graphene Oxide/Metal-Organic Framework Interface at the Atomistic Scale. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33619-33629.	8.0	40
76	Morphology of a Poly(imide siloxane) Segmented Copolymer/Silica Hybrid Composite. <i>Macromolecular Rapid Communications</i> , 2002, 23, 544.	3.9	38
77	Effect of a UV/Ozone Treatment on Siloxane-Containing Copolyimides: Surface Modification and Gas Transport Characteristics. <i>Chemistry of Materials</i> , 2003, 15, 2346-2353.	6.7	38
78	Advances in membrane materials: desalination membranes based on directly copolymerized disulfonated poly(arylene ether sulfone) random copolymers. <i>Water Science and Technology</i> , 2010, 61, 619-624.	2.5	38
79	Alkyl imidazolium-functionalized cardo-based poly(ether ketone)s as novel polymer membranes for O ₂ /N ₂ and CO ₂ /N ₂ separations. <i>Polymer</i> , 2013, 54, 3534-3541.	3.8	37
80	Metal-organic frameworks grown on a porous planar template with an exceptionally high surface area: promising nanofiller platforms for CO ₂ separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22500-22505.	10.3	37
81	2D nanoporous materials: membrane platform for gas and liquid separations. <i>2D Materials</i> , 2019, 6, 042002.	4.4	37
82	Nafion® nanocomposite membranes: Effect of fluorosurfactants on hydrophobic silica nanoparticle dispersion and direct methanol fuel cell performance. <i>Journal of Power Sources</i> , 2009, 194, 646-654.	7.8	35
83	PEG/PPG-PDMS-Based Cross-Linked Copolymer Membranes Prepared by ROMP and In Situ Membrane Casting for CO ₂ Separation: An Approach to Endow Rubbery Materials with Properties of Rigid Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27286-27299.	8.0	34
84	Preparation of high-performance polymer electrolyte nanocomposites through nanoscale silica particle dispersion. <i>Journal of Power Sources</i> , 2010, 195, 1325-1332.	7.8	33
85	Strategic dispersion of carbon black and its application to ink-jet-printed lithium cobalt oxide electrodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 6449-6455.	7.8	33
86	Percolational Effect of Siloxane Content in Poly(amideimide siloxane) on the Gas Permeation Behavior. <i>Macromolecules</i> , 1999, 32, 2394-2396.	4.8	30
87	Gas-transport properties through cation-exchanged sulfonated polysulfone membranes. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2611-2617.	2.6	30
88	Preparation and characterization of sulfonated poly(phthalazinone ether sulfone ketone) (SPPESK)/silica hybrid membranes for direct methanol fuel cell applications. <i>Macromolecular Research</i> , 2004, 12, 413-421.	2.4	30
89	Graphene Oxide Sieving Membrane for Improved Cycle Life in High-Efficiency Redox-Mediated Li-O ₂ batteries. <i>Small</i> , 2018, 14, e1801456.	10.0	30
90	Thermally annealed polyimide-based mixed matrix membrane containing ZIF-67 decorated porous graphene oxide nanosheets with enhanced propylene/propane selectivity. <i>Journal of Membrane Science</i> , 2020, 603, 118019.	8.2	30

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91	Percolation behavior of gas permeability in rigid-flexible block copolymer membranes. <i>Journal of Membrane Science</i> , 2000, 177, 143-152.	8.2	29
92	Facile Preparation of Polyamide Thin-Film Nanocomposite Membranes Using Spray-Assisted Nanofiller Predeposition. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4248-4256.	3.7	29
93	Surfactant-assisted polymer electrolyte nanocomposite membranes for fuel cells. <i>Journal of Membrane Science</i> , 2009, 344, 288-296.	8.2	27
94	An imidazolium-based ionene blended with crosslinked PEO as a novel polymer membrane for selective CO ₂ separation. <i>Macromolecular Research</i> , 2014, 22, 907-916.	2.4	26
95	Synthesis and characterization of polyamideimide-branched siloxane and its gas-separation. <i>Journal of Applied Polymer Science</i> , 1999, 74, 965-973.	2.6	25
96	Influence of water content on alkali metal chloride transport in cross-linked Poly(ethylene glycol) Diacrylate.1. Ion sorption. <i>Polymer</i> , 2019, 178, 121554.	3.8	25
97	Novel piperazinium-mediated crosslinked polyimide membranes for high performance CO ₂ separation. <i>Journal of Membrane Science</i> , 2015, 487, 90-98.	8.2	24
98	Metal-assisted mechanochemical reduction of graphene oxide. <i>Carbon</i> , 2016, 110, 79-86.	10.3	24
99	Novel sulfonated poly(arylene ether ketone) containing benzoxazole membranes for proton exchange membrane fuel cell. <i>Macromolecular Research</i> , 2006, 14, 438-442.	2.4	23
100	Pebax® 2533/Graphene Oxide Nanocomposite Membranes for Carbon Capture. <i>Membranes</i> , 2020, 10, 188.	3.0	23
101	Elucidating the Role of Embedded Metal-Organic Frameworks in Water and Ion Transport Properties in Polymer Nanocomposite Membranes. <i>Chemistry of Materials</i> , 2020, 32, 10165-10175.	6.7	23
102	Aging effect of poly(vinyl alcohol) membranes crosslinked with poly(acrylic acid-co-maleic acid). <i>Macromolecular Research</i> , 2005, 13, 135-140.	2.4	22
103	Synthesis of sulfonated poly(imidoaryl ether sulfone) membranes for polymer electrolyte membrane fuel cells. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5620-5631.	2.3	22
104	Sub-5 nm Graphene Oxide Nanofilm with Exceptionally High H ⁺ /V Selectivity for Vanadium Redox Flow Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 4590-4596.	5.1	22
105	Influence of water content on alkali metal chloride transport in cross-linked Poly(ethylene glycol) diacrylate.2. Ion diffusion. <i>Polymer</i> , 2020, 192, 122316.	3.8	21
106	Understanding Gas Transport Behavior through Few-Layer Graphene Oxide Membranes Controlled by Tortuosity and Interlayer Spacing. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7725-7731.	4.6	20
107	Sacrificial graphene oxide interlayer for highly permeable ceramic thin film composite membranes. <i>Journal of Membrane Science</i> , 2021, 618, 118442.	8.2	20
108	Defect Engineering in Metal-Organic Frameworks Towards Advanced Mixed Matrix Membranes for Efficient Propylene/Propane Separation. <i>Angewandte Chemie</i> , 2021, 133, 13191-13198.	2.0	20

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109	In Situ Derived Hybrid Carbon Molecular Sieve Membranes with Tailored Ultramicroporosity for Efficient Gas Separation. <i>Small</i> , 2021, 17, e2104698.	10.0	19
110	Pyrolytic carbon membranes containing silica: morphological approach on gas transport behavior. <i>Journal of Molecular Structure</i> , 2005, 739, 179-190.	3.6	18
111	Preparation and characterization of novel acetylated cellulose ether (ACE) membranes for desalination applications. <i>Journal of Membrane Science</i> , 2013, 428, 533-545.	8.2	18
112	Defect-free surface modification methods for solubility-tunable carbon nanotubes. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 307-317.	9.4	18
113	Graphene-based membranes – a new opportunity for CO ₂ separation. <i>Carbon Management</i> , 2014, 5, 251-253.	2.4	16
114	Facile suppression of intensified plasticization in glassy polymer thin films towards scalable composite membranes for propylene/propane separation. <i>Journal of Membrane Science</i> , 2022, 645, 120215.	8.2	16
115	Preparation of ion exchange membranes for fuel cell based on crosslinked poly(vinyl alcohol) with poly(acrylic acid-co-maleic acid). <i>Macromolecular Research</i> , 2005, 13, 314-320.	2.4	15
116	Graphene oxide nanosheet-embedded crosslinked poly(ethylene oxide) hydrogel. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45417.	2.6	15
117	Rational Design of Ultrathin Gas Barrier Layer via Reconstruction of Hexagonal Boron Nitride Nanoflakes to Enhance the Chemical Stability of Proton Exchange Membrane Fuel Cells. <i>Small</i> , 2019, 15, e1903705.	10.0	15
118	Characterization and gas transport properties of UV-irradiated polydimethylsiloxane (PDMS)-containing polyimide copolymer membranes. <i>Polymer</i> , 2020, 210, 122966.	3.8	15
119	Defect control for large-scale thin-film composite membrane and its bench-scale demonstration. <i>Journal of Membrane Science</i> , 2018, 566, 374-382.	8.2	14
120	Surface Modification of Matrimid® 5218 Polyimide Membrane with Fluorine-Containing Diamines for Efficient Gas Separation. <i>Membranes</i> , 2022, 12, 256.	3.0	11
121	Unprecedentedly Low CO ₂ Transport through Vertically Aligned, Conical Silicon Nanotube Membranes. <i>Nano Letters</i> , 2020, 20, 4754-4760.	9.1	9
122	Synthesis and characterization of metal-containing sulfonated polyimide membranes and their gas separation properties. <i>Desalination</i> , 2002, 145, 389-392.	8.2	8
123	Gas sorption and diffusion in poly(dimethylsiloxane) (PDMS)/graphene oxide (GO) nanocomposite membranes. <i>Polymer</i> , 2021, 212, 123185.	3.8	8
124	Exceptionally Reinforced Polymer Nanocomposites via Incorporated Surface Porosity on Graphene Oxide Sheets. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700039.	3.6	7
125	Macroscopic properties of single-crystalline and polycrystalline graphene on soft substrate for transparent electrode applications. <i>Carbon</i> , 2021, 178, 181-189.	10.3	7
126	Atomic-Layer-Deposited SiO _x /SnO _x Nanolaminate Structure for Moisture and Hydrogen Gas Diffusion Barriers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39584-39594.	8.0	7

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127	Multilayered Graphene-Coated Metal Current Collectors with High Electrical Conductivity and Corrosion Resistivity for Flow-Electrode Capacitive Mixing. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7625-7634.	6.7	7
128	Effect of Deacetylation Degree in Chitosan Composite Membranes on Pervaporation Performance. <i>Separation Science and Technology</i> , 1998, 33, 1255-1269.	2.5	6
129	Enhancement of memory windows in Pt/Ta ₂ O ₅ /Ta bipolar resistive switches via a graphene oxide insertion layer. <i>Thin Solid Films</i> , 2015, 587, 57-60.	1.8	6
130	Origin of CO ₂ -philic Sorption by Graphene Oxide Layered Nanosheets and Their Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2356-2362.	4.6	6
131	Synthesis and characterization of a benzoyl modified Pebax materials for gas separation applications. <i>Polymer</i> , 2021, 228, 123944.	3.8	6
132	Molecular thermodynamics approach on phase equilibria of dendritic polymer systems. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 375-386.	2.7	4
133	Highly chlorine and oily fouling tolerant membrane surface modifications by <i>in situ</i> polymerization of dopamine and poly (ethylene glycol) diacrylate for water treatment. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	4
134	The pretreatment of granular activated carbon using sodium persulfate and hydrogen peroxide under basic conditions: Properties, metal impregnation, and As(V) adsorption. <i>Materials Chemistry and Physics</i> , 2018, 218, 317-325.	4.0	4
135	Unraveling the Enhancement of the Interfacial Compatibility between Metal-Organic Framework and Functionalized Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4984-4993.	3.1	4
136	Detailed Characterization of an Annealed Reduced Graphene Oxide Catalyst for Selective Peroxide Formation Activity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46439-46445.	8.0	4
137	Gas Diffusion through Nanoporous Channels of Graphene Oxide and Reduced Graphene Oxide Membranes. <i>ACS Applied Nano Materials</i> , 2022, 5, 7029-7035.	5.0	3
138	Gas Separation Properties of Triptycene-Based Polyimide Membranes. <i>ACS Symposium Series</i> , 2011, , 107-128.	0.5	2
139	Reductive dechlorination of DNAPL mixtures with Fe(II/III)-L and Fe(II)-C: Evaluation using a kinetic model for the competitions. <i>Science of the Total Environment</i> , 2018, 624, 872-877.	8.0	2
140	Novel Carbon-Silica Membranes for Improved Gas Separation. <i>ACS Symposium Series</i> , 2004, , 190-202.	0.5	1
141	Polymer Designs with High Gas Permeable Characteristics for Small Gas Separations. <i>Membrane</i> , 2006, 31, 161-164.	0.0	1
142	1.14 Graphene Membranes. , 2017, , 358-385.		1
143	THE STRUCTURAL EFFECT ON PROTON CONDUCTIVITY AND METHANOL PERMEABILITY OF SULFONATED POLYIMIDE MEMBRANE AS POTENTIAL PEM. , 2004, , .		0
144	THERMO-CONTROLLED HIGH PERFORMANCE GAS SEPARATION MEMBRANE MATERIAL: NOVEL ORGANIC MOLECULAR SIEVE MEMBRANE. , 2004, , .		0

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145	Toward Sustainable Chemical Processing With Graphene-Based Materials. , 2020, , 195-229.		0
146	CARBON-SILICA MEMBRANES FOR IMPROVED GAS SEPARATION. , 2004, , .		0