

# Young Moo Lee

## List of Publications by Year in descending order

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495  
papers

35,776  
citations

1994

101  
h-index

5829

161  
g-index

504  
all docs

504  
docs citations

504  
times ranked

23379  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymers with Cavities Tuned for Fast Selective Transport of Small Molecules and Ions. <i>Science</i> , 2007, 318, 254-258.	12.6	919
2	Hydrocarbon-Based Polymer Electrolyte Membranes: Importance of Morphology on Ion Transport and Membrane Stability. <i>Chemical Reviews</i> , 2017, 117, 4759-4805.	47.7	732
3	Sulfonated hydrocarbon membranes for medium-temperature and low-humidity proton exchange membrane fuel cells (PEMFCs). <i>Progress in Polymer Science</i> , 2011, 36, 1443-1498.	24.7	597
4	Preparation and characterization of crosslinked PVA/SiO <sub>2</sub> 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
5	Recent progress in fluoropolymers for membranes. <i>Progress in Polymer Science</i> , 2014, 39, 164-198.	24.7	402
6	Gas permeation properties of poly(amide-6-b-ethylene oxide)–silica hybrid membranes. <i>Journal of Membrane Science</i> , 2001, 193, 209-225.	8.2	385
7	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
8	Rigid and microporous polymers for gas separation membranes. <i>Progress in Polymer Science</i> , 2015, 43, 1-32.	24.7	377
9	Study on gelatin-containing artificial skin: I. Preparation and characteristics of novel gelatin-alginate sponge. <i>Biomaterials</i> , 1999, 20, 409-417.	11.4	365
10	Nanocrack-regulated self-humidifying membranes. <i>Nature</i> , 2016, 532, 480-483.	27.8	362
11	Understanding the non-solvent induced phase separation (NIPS) effect during the fabrication of microporous PVDF membranes via thermally induced phase separation (TIPS). <i>Journal of Membrane Science</i> , 2016, 514, 250-263.	8.2	351
12	Metal–organic framework membranes fabricated via reactive seeding. <i>Chemical Communications</i> , 2011, 47, 737-739.	4.1	350
13	Collagen scaffolds derived from a marine source and their biocompatibility. <i>Biomaterials</i> , 2006, 27, 2951-2961.	11.4	349
14	Thermally rearranged (TR) polymer membranes for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2010, 359, 11-24.	8.2	330
15	Gas permeation of poly(amide-6-b-ethylene oxide) copolymer. <i>Journal of Membrane Science</i> , 2001, 190, 179-193.	8.2	320
16	Methoxy poly(ethylene glycol) and $\epsilon$ -caprolactone amphiphilic block copolymeric micelle containing indomethacin. <i>Journal of Controlled Release</i> , 1998, 51, 13-22.	9.9	309
17	Crystalline polymorphism in poly(vinylidene fluoride) membranes. <i>Progress in Polymer Science</i> , 2015, 51, 94-126.	24.7	305
18	Thermally induced phase separation and electrospinning methods for emerging membrane applications: A review. <i>AIChE Journal</i> , 2016, 62, 461-490.	3.6	271

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19	pH/temperature-responsive behaviors of semi-IPN and comb-type graft hydrogels composed of alginate and poly(N-isopropylacrylamide). <i>Polymer</i> , 2001, 42, 6851-6857.	3.8	266
20	Anion exchange polyelectrolytes for membranes and ionomers. <i>Progress in Polymer Science</i> , 2021, 113, 101345.	24.7	264
21	Preparation and characterization of methoxy poly(ethylene glycol)/poly( $\epsilon$ -caprolactone) amphiphilic block copolymeric nanospheres for tumor-specific folate-mediated targeting of anticancer drugs. <i>Biomaterials</i> , 2005, 26, 1053-1061.	11.4	263
22	Synthesis and characteristics of interpenetrating polymer network hydrogel composed of chitosan and poly(acrylic acid). <i>Journal of Applied Polymer Science</i> , 1999, 73, 113-120.	2.6	259
23	Highly conductive and durable poly(arylene ether sulfone) anion exchange membrane with end-group cross-linking. <i>Energy and Environmental Science</i> , 2017, 10, 275-285.	30.8	255
24	Methoxy poly(ethylene glycol)/ $\epsilon$ -caprolactone amphiphilic block copolymeric micelle containing indomethacin. <i>Journal of Controlled Release</i> , 1998, 51, 1-11.	9.9	248
25	Folate-conjugated methoxy poly(ethylene glycol)/poly( $\epsilon$ -caprolactone) amphiphilic block copolymeric micelles for tumor-targeted drug delivery. <i>Journal of Controlled Release</i> , 2005, 109, 158-168.	9.9	234
26	In vivo biocompatibility and degradation behavior of elastic poly(L-lactide-co- $\epsilon$ -caprolactone) scaffolds. <i>Biomaterials</i> , 2004, 25, 5939-5946.	11.4	230
27	Polyimides containing aliphatic/alicyclic segments in the main chains. <i>Progress in Polymer Science</i> , 2019, 92, 35-88.	24.7	230
28	Sustainable wastewater treatment and recycling in membrane manufacturing. <i>Green Chemistry</i> , 2015, 17, 5196-5205.	9.0	229
29	Importance of Proton Conductivity Measurement in Polymer Electrolyte Membrane for Fuel Cell Application. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 7617-7626.	3.7	228
30	Thermally Rearranged (TR) Polybenzoxazole: Effects of Diverse Imidization Routes on Physical Properties and Gas Transport Behaviors. <i>Macromolecules</i> , 2010, 43, 7657-7667.	4.8	226
31	Polymer Rigidity Improves Microporous Membranes. <i>Science</i> , 2013, 339, 284-285.	12.6	223
32	Clonazepam release from core-shell type nanoparticles in vitro. <i>Journal of Controlled Release</i> , 1998, 51, 169-178.	9.9	219
33	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
34	Intrinsically Microporous Soluble Polyimides Incorporating Tröger's Base for Membrane Gas Separation. <i>Macromolecules</i> , 2014, 47, 3254-3262.	4.8	219
35	Taxol-loaded block copolymer nanospheres composed of methoxy poly(ethylene glycol) and poly( $\epsilon$ -caprolactone) as novel anticancer drug carriers. <i>Biomaterials</i> , 2001, 22, 1697-1704.	11.4	217
36	Tissue-engineered vascular grafts composed of marine collagen and PLGA fibers using pulsatile perfusion bioreactors. <i>Biomaterials</i> , 2007, 28, 1115-1122.	11.4	211

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37	Fluorene-Based Poly(arylene ether sulfone)s Containing Clustered Flexible Pendant Sulfonic Acids as Proton Exchange Membranes. <i>Macromolecules</i> , 2011, 44, 7296-7306.	4.8	211
38	Rapid temperature/pH response of porous alginate-g-poly(N-isopropylacrylamide) hydrogels. <i>Polymer</i> , 2002, 43, 7549-7558.	3.8	209
39	Poly(vinylidene fluoride) membrane preparation with an environmental diluent via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2013, 444, 223-236.	8.2	205
40	A novel green solvent alternative for polymeric membrane preparation via nonsolvent-induced phase separation (NIPS). <i>Journal of Membrane Science</i> , 2019, 574, 44-54.	8.2	205
41	Mechano-active tissue engineering of vascular smooth muscle using pulsatile perfusion bioreactors and elastic PLCL scaffolds. <i>Biomaterials</i> , 2005, 26, 1405-1411.	11.4	203
42	Thermo- and pH-responsive behaviors of graft copolymer and blend based on chitosan and N-isopropylacrylamide. <i>Journal of Applied Polymer Science</i> , 2000, 78, 1381-1391.	2.6	201
43	Study of gelatin-containing artificial skin V: fabrication of gelatin scaffolds using a salt-leaching method. <i>Biomaterials</i> , 2005, 26, 1961-1968.	11.4	196
44	Poly(fluorenyl aryl piperidinium) membranes and ionomers for anion exchange membrane fuel cells. <i>Nature Communications</i> , 2021, 12, 2367.	12.8	193
45	Studies on gelatin-containing artificial skin: II. Preparation and characterization of cross-linked gelatin-hyaluronate sponge. <i>Journal of Biomedical Materials Research Part B</i> , 1999, 48, 631-639.	3.1	188
46	Interpenetrating polymer network hydrogels based on poly(ethylene glycol) macromer and chitosan. <i>Carbohydrate Polymers</i> , 2000, 41, 197-205.	10.2	188
47	pH/temperature-responsive semi-IPN hydrogels composed of alginate and poly(N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , 2002, 83, 1128-1139.	2.6	187
48	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17512-17527.	13.8	186
49	Poly(Alkyl-Terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkaline Membrane Fuel Cell Performance of 2.58 W cm <sup>-2</sup> . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7710-7718.	13.8	185
50	Properties and swelling characteristics of cross-linked poly(vinyl alcohol)/chitosan blend membrane. <i>Journal of Applied Polymer Science</i> , 1992, 45, 1711-1717.	2.6	178
51	Development of Electroactive and Elastic Nanofibers that contain Polyaniline and Poly(L-lactide-co-ε-caprolactone) for the Control of Cell Adhesion. <i>Macromolecular Bioscience</i> , 2008, 8, 627-637.	4.1	176
52	Pervaporation and properties of chitosan-poly(acrylic acid) complex membranes. <i>Journal of Membrane Science</i> , 1997, 135, 161-171.	8.2	174
53	Effect of polyelectrolyte on the lower critical solution temperature of poly(N-isopropyl acrylamide) in the poly(NIPAAm-co-acrylic acid) hydrogel. <i>Polymer</i> , 2000, 41, 5713-5719.	3.8	174
54	Mechanically robust thermally rearranged (TR) polymer membranes with spirobisindane for gas separation. <i>Journal of Membrane Science</i> , 2013, 434, 137-147.	8.2	171

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55	Preparation and surface characterization of functional group-grafted and heparin-immobilized polyurethanes by plasma glow discharge. <i>Biomaterials</i> , 1996, 17, 841-847.	11.4	170
56	Preparation of amphiphilic chitosan and their antimicrobial activities. <i>Journal of Applied Polymer Science</i> , 1999, 72, 1713-1719.	2.6	167
57	Phenyltrimethylammonium Functionalized Polysulfone Anion Exchange Membranes. <i>Macromolecules</i> , 2012, 45, 2411-2419.	4.8	167
58	Surface modification of polypropylene membranes by $\gamma$ -ray induced graft copolymerization and their solute permeation characteristics. <i>Journal of Membrane Science</i> , 2001, 190, 215-226.	8.2	163
59	A Thermosensitive Poly(organophosphazene) Gel. <i>Macromolecules</i> , 2002, 35, 3876-3879.	4.8	163
60	Dual thermo- and pH-sensitive poly(N-isopropylacrylamide-co-acrylic acid) hydrogels with rapid response behaviors. <i>Polymer</i> , 2007, 48, 1718-1728.	3.8	162
61	Manufacture of elastic biodegradable PLCL scaffolds for mechano-active vascular tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004, 15, 645-660.	3.5	161
62	Morphology of Elastic Poly(L-lactide-co- $\epsilon$ -caprolactone) Copolymers and in Vitro and in Vivo Degradation Behavior of Their Scaffolds. <i>Biomacromolecules</i> , 2004, 5, 1303-1309.	5.4	161
63	Synthesis and Characterization of Poly(L-lactide)- $\epsilon$ -Poly( $\epsilon$ -caprolactone) Multiblock Copolymers. <i>Macromolecules</i> , 2003, 36, 5585-5592.	4.8	160
64	High-performance anion exchange membrane water electrolyzers with a current density of 7.68 A cm <sup>2</sup> and a durability of 1000 hours. <i>Energy and Environmental Science</i> , 2021, 14, 6338-6348.	30.8	160
65	Enhancement of Proton Transport by Nanochannels in Comb-Shape Copoly(arylene ether sulfone)s. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9158-9161.	13.8	157
66	Poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide)/poly( $\epsilon$ -caprolactone) (PCL) amphiphilic block copolymeric nanospheres. <i>Journal of Controlled Release</i> , 2000, 65, 345-358.	9.9	156
67	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
68	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
69	Properties of electroresponsive poly(vinyl alcohol)/poly(acrylic acid) IPN hydrogels under an electric stimulus. <i>Journal of Applied Polymer Science</i> , 1999, 73, 1675-1683.	2.6	147
70	Thermally Rearranged (TR) Poly(ether- $\epsilon$ -benzoxazole) Membranes for Gas Separation. <i>Macromolecules</i> , 2011, 44, 1156-1165.	4.8	145
71	Response of MG63 osteoblast-like cells onto polycarbonate membrane surfaces with different micropore sizes. <i>Biomaterials</i> , 2004, 25, 4699-4707.	11.4	144
72	The effect of surface wettability on induction and growth of neurites from the PC-12 cell on a polymer surface. <i>Journal of Colloid and Interface Science</i> , 2003, 259, 228-235.	9.4	141

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73	Bio-artificial skin composed of gelatin and (1 $\alpha$ '3), (1 $\alpha$ '6)- $\beta$ -D-glucan. <i>Biomaterials</i> , 2003, 24, 2503-2511.	11.4	139
74	Transplantation of mesenchymal stem cells within a poly(lactide-co- $\epsilon$ -caprolactone) scaffold improves cardiac function in a rat myocardial infarction model. <i>European Journal of Heart Failure</i> , 2009, 11, 147-153.	7.1	135
75	Microporous PVDF membranes via thermally induced phase separation (TIPS) and stretching methods. <i>Journal of Membrane Science</i> , 2016, 509, 94-104.	8.2	132
76	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
77	A new class of highly-conducting polymer electrolyte membranes: Aromatic ABA triblock copolymers. <i>Energy and Environmental Science</i> , 2012, 5, 5346-5355.	30.8	131
78	Highly gas permeable and microporous polybenzimidazole membrane by thermal rearrangement. <i>Journal of Membrane Science</i> , 2010, 357, 143-151.	8.2	130
79	High-strength, soluble polyimide membranes incorporating Tröger's Base for gas separation. <i>Journal of Membrane Science</i> , 2016, 504, 55-65.	8.2	127
80	Drug release behavior of electrical responsive poly(vinyl alcohol)/poly(acrylic acid) IPN hydrogels under an electric stimulus. <i>Journal of Applied Polymer Science</i> , 1999, 74, 1752-1761.	2.6	126
81	Tuning microcavities in thermally rearranged polymer membranes for CO <sub>2</sub> capture. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4365.	2.8	126
82	<i>In Vitro</i> Osteogenic Differentiation of Human Mesenchymal Stem Cells and <i>In Vivo</i> Bone Formation in Composite Nanofiber Meshes. <i>Tissue Engineering - Part A</i> , 2008, 14, 2105-2119.	3.1	125
83	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
84	Thermally rearranged (TR) polybenzoxazole hollow fiber membranes for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , 2012, 403-404, 169-178.	8.2	124
85	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
86	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
87	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
88	Preparation and characteristics of $\beta$ -D-chitin and poly(vinyl alcohol) blend. <i>Polymer</i> , 1996, 37, 5897-5905.	3.8	115
89	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
90	Studies on gelatin-based sponges. Part III: a comparative study of cross-linked gelatin/alginate, gelatin/hyaluronate and chitosan/hyaluronate sponges and their application as a wound dressing in full-thickness skin defect of rat. <i>Journal of Materials Science: Materials in Medicine</i> , 2001, 12, 67-73.	3.6	112

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91	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes for Gas Separation. <i>Macromolecules</i> , 2013, 46, 8179-8189.	4.8	112
92	Microporous poly(vinylidene fluoride) hollow fiber membranes fabricated with PolarClean as water-soluble green diluent and additives. <i>Journal of Membrane Science</i> , 2015, 479, 204-212.	8.2	112
93	Bio-Inspired Robust Membranes Nanoengineered from Interpenetrating Polymer Networks of Polybenzimidazole/Polydopamine. <i>ACS Nano</i> , 2019, 13, 125-133.	14.6	112
94	Synthesis and swelling characteristics of pH and thermoresponsive interpenetrating polymer network hydrogel composed of poly(vinyl alcohol) and poly(acrylic acid). <i>Journal of Applied Polymer Science</i> , 1996, 62, 301-311.	2.6	109
95	Nanofibrous Poly(lactic acid)/Hydroxyapatite Composite Scaffolds for Guided Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2008, 8, 328-338.	4.1	109
96	In vitro blood compatibility of functional group-grafted and heparin-immobilized polyurethanes prepared by plasma glow discharge. <i>Biomaterials</i> , 1997, 18, 1099-1107.	11.4	107
97	Durable Sulfonated Poly(arylene sulfide sulfone nitrile)s Containing Naphthalene Units for Direct Methanol Fuel Cells (DMFCs). <i>Macromolecules</i> , 2013, 46, 3452-3460.	4.8	106
98	Preparation and characterization of biodegradable nanospheres composed of methoxy poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 197-208.	9.9	105
99	Toxic characteristics of methoxy poly(ethylene glycol)/poly( $\mu$ -caprolactone) nanospheres; in vitro and in vivo studies in the normal mice. <i>Biomaterials</i> , 2003, 24, 55-63.	11.4	102
100	Temperature/pH-sensitive comb-type graft hydrogels composed of chitosan and poly(N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , 2004, 92, 2612-2620.	2.6	102
101	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
102	Polymer Electrolyte Membranes Derived from New Sulfone Monomers with Pendent Sulfonic Acid Groups. <i>Macromolecules</i> , 2010, 43, 9810-9820.	4.8	102
103	Pervaporation of ionically surface crosslinked chitosan composite membranes for water-alcohol mixtures. <i>Journal of Membrane Science</i> , 1997, 133, 103-110.	8.2	101
104	A robust thin film composite membrane incorporating thermally rearranged polymer support for organic solvent nanofiltration and pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2018, 550, 322-331.	8.2	100
105	Optimal catalyst layer structure of polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9876-9885.	7.1	98
106	Thermally Rearranged Poly(benzoxazole-co-imide) Membranes with Superior Mechanical Strength for Gas Separation Obtained by Tuning Chain Rigidity. <i>Macromolecules</i> , 2015, 48, 2194-2202.	4.8	98
107	Preparation and characterization of carbon molecular sieve membranes derived from BTDA-ODA polyimide and their gas separation properties. <i>Journal of Membrane Science</i> , 2005, 255, 265-273.	8.2	97
108	Preparation of thermo-responsive and injectable hydrogels based on hyaluronic acid and poly(N-isopropylacrylamide) and their drug release behaviors. <i>Macromolecular Research</i> , 2006, 14, 87-93.	2.4	97

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109	PVDF hollow fiber membranes prepared from green diluent via thermally induced phase separation: Effect of PVDF molecular weight. <i>Journal of Membrane Science</i> , 2014, 471, 237-246.	8.2	97
110	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
111	Synthesis and properties of diethylaminoethyl chitosan. <i>Polymer</i> , 1993, 34, 1952-1957.	3.8	94
112	Poly(ethylene oxide)- <i>b</i> -poly(propylene oxide)- <i>b</i> -poly(ethylene oxide) (Pluronic)/poly( $\epsilon$ -caprolactone) (PCL) amphiphilic block copolymeric nanospheres. <i>Journal of Controlled Release</i> , 1999, 62, 381-392.	9.9	94
113	Densely Sulfophenylated Segmented Copoly(arylene ether sulfone) Proton Exchange Membranes. <i>Macromolecules</i> , 2011, 44, 4901-4910.	4.8	94
114	Poly(arylene ether sulfone) proton exchange membranes with flexible acid side chains. <i>Journal of Membrane Science</i> , 2012, 405-406, 68-78.	8.2	94
115	Ultrathin zeolitic-imidazolate framework ZIF-8 membranes on polymeric hollow fibers for propylene/propane separation. <i>Journal of Membrane Science</i> , 2018, 559, 28-34.	8.2	94
116	Polybenzimidazole membranes modified with polyelectrolyte-functionalized multiwalled carbon nanotubes for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 7480.	6.7	93
117	Preparation and characteristics of hybrid scaffolds composed of $\beta$ -chitin and collagen. <i>Biomaterials</i> , 2004, 25, 2309-2317.	11.4	91
118	Polyethylene-based radiation grafted anion-exchange membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2013, 441, 148-157.	8.2	91
119	Synthesis and properties of semi-interpenetrating polymer networks composed of $\beta$ -chitin and poly(ethylene glycol) macromer. <i>Polymer</i> , 1995, 36, 4497-4501.	3.8	90
120	Morphological transformation during cross-linking of a highly sulfonated poly(phenylene sulfide) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 3	30.8	90
121	Cross-Linked Thermally Rearranged Poly(benzoxazole- <i>co</i> - <i>imide</i> ) Membranes Prepared from <i>ortho</i> -Hydroxycopolyimides Containing Pendant Carboxyl Groups and Gas Separation Properties. <i>Macromolecules</i> , 2015, 48, 2603-2613.	4.8	90
122	Pervaporation separation of methanol/methyl t-butyl ether through chitosan composite membrane modified with surfactants. <i>Journal of Membrane Science</i> , 1999, 157, 63-71.	8.2	87
123	Tailoring nonsolvent-thermally induced phase separation (N-TIPS) effect using triple spinneret to fabricate high performance PVDF hollow fiber membranes. <i>Journal of Membrane Science</i> , 2018, 559, 117-126.	8.2	87
124	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
125	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
126	Insight into the Alkaline Stability of Na <sup>+</sup> -Heterocyclic Ammonium Groups for Anion-Exchange Polyelectrolytes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19272-19280.	13.8	85



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127	High performance polymer membranes for CO <sub>2</sub> separation. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 238-244.	7.8	84
128	Gas permeation properties of hydroxyl-group containing polyimide membranes. <i>Macromolecular Research</i> , 2008, 16, 555-560.	2.4	83
129	Lithium recovery from artificial brine using energy-efficient membrane distillation and nanofiltration. <i>Journal of Membrane Science</i> , 2020, 598, 117683.	8.2	83
130	Indomethacin release behaviors from pH and thermoresponsive poly(vinyl alcohol) and poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	82
131	Electrical/pH-sensitive swelling behavior of polyelectrolyte hydrogels prepared with hyaluronic acid and poly(vinyl alcohol) interpenetrating polymer networks. <i>Reactive and Functional Polymers</i> , 2003, 55, 291-298.	4.1	82
132	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. <i>Journal of Membrane Science</i> , 2018, 549, 260-266.	8.2	82
133	Engineering evaluation of CO <sub>2</sub> separation by membrane gas separation systems. <i>Journal of Membrane Science</i> , 2014, 454, 305-315.	8.2	81
134	Thermally rearranged polybenzoxazoles membranes with biphenyl moieties: Monomer isomeric effect. <i>Journal of Membrane Science</i> , 2014, 450, 369-379.	8.2	80
135	Fabrication and Characterization of Nanoporous Carbon/Silica Membranes. <i>Advanced Materials</i> , 2005, 17, 477-483.	21.0	79
136	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. <i>Macromolecules</i> , 2015, 48, 5286-5299.	4.8	78
137	Preparation, characterization and properties of $\beta$ -chitin and N-acetylated $\beta$ -chitin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 2367-2374.	2.1	77
138	Design and operation considerations for wastewater treatment using a flat submerged membrane bioreactor. <i>Process Biochemistry</i> , 2002, 38, 279-285.	3.7	77
139	Phase Separation and Water Channel Formation in Sulfonated Block Copolyimide. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12036-12045.	2.6	77
140	The relationship between the chemical structure and thermal conversion temperatures of thermally rearranged (TR) polymers. <i>Polymer</i> , 2012, 53, 2783-2791.	3.8	77
141	Branched Poly(Aryl Piperidinium) Membranes for Anion Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114892.	13.8	77
142	Effect of Moisture on the Thermal Protective Performance of Heat-Resistant Fabrics. <i>Journal of Fire Sciences</i> , 1986, 4, 315-331.	2.0	76
143	Thermal characteristics of chitin and hydroxypropyl chitin. <i>Polymer</i> , 1994, 35, 3212-3216.	3.8	76
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291	Thermally rearranged polymer membranes containing highly rigid biphenyl ortho-hydroxyl diamine for hydrogen separation. <i>Journal of Membrane Science</i> , 2020, 604, 118053.	8.2	33
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