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	Impact of side-chains in poly(dibenzyl-co-terphenyl piperidinium) copolymers for anion exchange membrane fuel cells. Journal of Membrane Science, 2022, 644, 120109.	8.2	44
2	Fabrication and modification of PVDF/PSF hollow-fiber membranes for ginseng extract and saline water separations via direct contact membrane distillation. Journal of Membrane Science, 2022, 644, 120101.	8.2	30
3	Effect of structural isomerism on physical and gas transport properties of TrÃ¶ger's Base-based polyimides. Polymer, 2022, 239, 124412.	3.8	12
4	Reinforced poly(fluorenyl-co-terphenyl piperidinium) anion exchange membranes for fuel cells. Journal of Membrane Science, 2022, 644, 120160.	8.2	23
5	Anion-conducting polyelectrolytes for energy devices. Trends in Chemistry, 2022, 4, 236-249.	8.5	34
6	Di-piperidinium-crosslinked poly(fluorenyl-co-terphenyl piperidinium)s for high-performance alkaline exchange membrane fuel cells. Journal of Materials Chemistry A, 2022, 10, 3678-3687.	10.3	45
7	Strategies for Improving Anion Exchange Membrane Fuel Cell Performance by Optimizing Electrode Conditions. Journal of the Electrochemical Society, 2022, 169, 014515.	2.9	7
8	Robust and durable poly(aryl-co-aryl piperidinium) reinforced membranes for alkaline membrane fuel cells. Journal of Materials Chemistry A, 2022, 10, 6587-6595.	10.3	27
9	Elucidating the role of alkyl chain in poly(aryl piperidinium) copolymers for anion exchange membrane fuel cells. Journal of Membrane Science, 2022, 647, 120341.	8.2	45
10	Design strategy of poly(vinylidene fluoride) membranes for water treatment. Progress in Polymer Science, 2022, 128, 101535.	24.7	73
11	Robust PVDF/PSF hollow-fiber membranes modified with inorganic TiO2 particles for enhanced oil-water separation. Journal of Membrane Science, 2022, 652, 120470.	8.2	27
12	Branched Poly(Aryl Piperidinium) Membranes for Anionâ€Exchange Membrane Fuel Cells. Angewandte Chemie, 2022, 134, .	2.0	3
13	Branched Poly(Aryl Piperidinium) Membranes for Anionâ€Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2022, 61, e202114892.	13.8	77
14	Multi-lab study on the pure-gas permeation of commercial polysulfone (PSf) membranes: Measurement standards and best practices. Journal of Membrane Science, 2022, 659, 120746.	8.2	15
15	Microfiber aligned hollow fiber membranes from immiscible polymer solutions by phase inversion. Journal of Membrane Science, 2021, 617, 118654.	8.2	19
16	Poly(Alkylâ€Terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkalineâ€Membrane Fuelâ€Cell Performance of 2.58â€…Wâ€‰cm^{â^'2}. Angewandte Chemie - International Edition, 2021, 60, 7710-7718.	13.8	185
17	Molecular sieving using metalâ€“polymer coordination membranes in organic media. Journal of Materials Chemistry A, 2021, 9, 14400-14410.	10.3	29
18	Poly(Alkylâ€Terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkalineâ€Membrane Fuelâ€Cell Performance of 2.58â€…Wâ€‰cm^{â^'2}. Angewandte Chemie, 2021, 133, 7789-7797.	2.0	29

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19	Anion exchange polyelectrolytes for membranes and ionomers. Progress in Polymer Science, 2021, 113, 101345.	24.7	264
20	RÃ¼cktitelbild: Poly(Alkylâ€Terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkalineâ€Membrane Fuelâ€Cell Performance of 2.58â€…Wâ€‰cm^{â^'2} (Angew. Chem. 14/2021). Angewandte Chemie, 2021, 133, 8060-8060.	2.0	0
21	Poly(fluorenyl aryl piperidinium) membranes and ionomers for anion exchange membrane fuel cells. Nature Communications, 2021, 12, 2367.	12.8	193
22	Thermally rearranged semi-interpenetrating polymer network (TR-SIPN) membranes for gas and olefin/paraffin separation. Journal of Membrane Science, 2021, 625, 119157.	8.2	21
23	Insight into the Alkaline Stability of Nâ€Heterocyclic Ammonium Groups for Anionâ€Exchange Polyelectrolytes. Angewandte Chemie - International Edition, 2021, 60, 19272-19280.	13.8	85
24	Insight into the Alkaline Stability of Nâ€Heterocyclic Ammonium Groups for Anionâ€Exchange Polyelectrolytes. Angewandte Chemie, 2021, 133, 19421-19429.	2.0	15
25	Highly Permeable Mixed Matrix Membranes of Thermally Rearranged Polymers and Porous Polymer Networks for Gas Separations. ACS Applied Polymer Materials, 2021, 3, 5224-5235.	4.4	14
26	Microporous polymers with cascaded cavities for controlled transport of small gas molecules. Science Advances, 2021, 7, eabi9062.	10.3	16
27	Membrane distillation & pressure retarded osmosis hybrid system using thermally rearranged nanofibrous membranes. Journal of Membrane Science, 2021, 638, 119735.	8.2	5
28	In-situ grown inorganic layer coated PVDF/PSF composite hollow fiber membranes with enhanced separation performance. Journal of Membrane Science, 2021, 637, 119632.	8.2	19
29	High-performance poly(fluorenyl aryl piperidinium)-based anion exchange membrane fuel cells with realistic hydrogen supply. Journal of Power Sources, 2021, 512, 230474.	7.8	12
30	Chemically & physically stable crosslinked poly(aryl-co-aryl piperidinium)s for anion exchange membrane fuel cells. Journal of Membrane Science, 2021, 638, 119685.	8.2	57
31	Effects of bulky 2,2â€²-substituents in dianhydrides on the microstructures and gas transport properties of thermally rearranged polybenzoxazoles. Journal of Membrane Science, 2021, 639, 119777.	8.2	6
32	High-performance anion exchange membrane water electrolyzers with a current density of 7.68 A cm^{â^'2} and a durability of 1000 hours. Energy and Environmental Science, 2021, 14, 6338-6348.	30.8	160
33	(Invited) Poly(aryl-co-aryl piperidinium) Copolymers for High-Performance Anion Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1200-1200.	0.0	0
34	Recent advances in polymer membranes employing non-toxic solvents and materials. Green Chemistry, 2021, 23, 9815-9843.	9.0	71
35	Dimensionally-controlled densification in crosslinked thermally rearranged (XTR) hollow fiber membranes for CO2 capture. Journal of Membrane Science, 2020, 595, 117535.	8.2	22
36	Lithium recovery from artificial brine using energy-efficient membrane distillation and nanofiltration. Journal of Membrane Science, 2020, 598, 117683.	8.2	83

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37	Thermally rearranged polybenzoxazole copolymers incorporating TrÃ¶ger's base for high flux gas separation membranes. Journal of Membrane Science, 2020, 612, 118437.	8.2	42
38	Highly permeable polyimides incorporating TrÃ¶ger's base (TB) units for gas separation membranes. Journal of Membrane Science, 2020, 615, 118533.	8.2	31
39	Energy and time efficient infrared (IR) irradiation treatment for preparing thermally rearranged (TR) and carbon molecular sieve (CMS) membranes for gas separation. Journal of Membrane Science, 2020, 613, 118477.	8.2	17
40	Low energy intensity production of fuel-grade bio-butanol enabled by membrane-based extraction. Energy and Environmental Science, 2020, 13, 4862-4871.	30.8	18
41	Blood Oxygenation Using Fluoropolymer-Based Artificial Lung Membranes. ACS Biomaterials Science and Engineering, 2020, 6, 6424-6434.	5.2	31
42	Effect of N-cyclic cationic groups in poly(phenylene oxide)-based catalyst ionomer membranes for anion exchange membrane fuel cells. Journal of Membrane Science, 2020, 608, 118183.	8.2	32
43	TrÃ¶ger's Base (TB)-containing polyimide membranes derived from bio-based dianhydrides for gas separations. Journal of Membrane Science, 2020, 610, 118255.	8.2	31
44	Alicyclic segments upgrade hydrogen separation performance of intrinsically microporous polyimide membranes. Journal of Membrane Science, 2020, 611, 118363.	8.2	32
45	Recent progress in microporous polymers from thermally rearranged polymers and polymers of intrinsic microporosity for membrane gas separation: Pushing performance limits and revisiting tradeâ€off lines. Journal of Polymer Science, 2020, 58, 2450-2466.	3.8	68
46	Electrical Tunable PVDF/Graphene Membrane for Controlled Molecule Separation. Chemistry of Materials, 2020, 32, 5750-5758.	6.7	39
47	N3-butyl imidazolium-based anion exchange membranes blended with Poly(vinyl alcohol) for alkaline water electrolysis. Journal of Membrane Science, 2020, 611, 118355.	8.2	54
48	Thermally rearranged polymer membranes containing highly rigid biphenyl ortho-hydroxyl diamine for hydrogen separation. Journal of Membrane Science, 2020, 604, 118053.	8.2	33
49	A highly robust and water permeable thin film composite membranes for pressure retarded osmosis generating 26ÂWÂ·mâ^'2 at 21Âbar. Desalination, 2020, 483, 114409.	8.2	24
50	Effects of sulfonate incorporation and structural isomerism on physical and gas transport properties of soluble sulfonated polyimides. Polymer, 2020, 191, 122263.	3.8	19
51	Piezoelectric PVDF membranes for use in anaerobic membrane bioreactor (AnMBR) and their antifouling performance. Journal of Membrane Science, 2020, 603, 118037.	8.2	35
52	Thin film composite on fluorinated thermally rearranged polymer nanofibrous membrane achieves power density of 87ÂWÂmâ^'2 in pressure retarded osmosis, improving economics of osmotic heat engine. Journal of Membrane Science, 2020, 607, 118120.	8.2	20
53	Synthesis of Ultrathin Zeolitic Imidazolate Framework ZIF-8 Membranes on Polymer Hollow Fibers Using a Polymer Modification Strategy for Propylene/Propane Separation. Industrial & Engineering Chemistry Research, 2019, 58, 14947-14953.	3.7	22
54	Highly permeable Thermally Rearranged Mixed Matrix Membranes (TR-MMM). Journal of Membrane Science, 2019, 585, 260-270.	8.2	47

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55	UV-crosslinked poly(PEGMA-co-MMA-co-BPMA) membranes: Synthesis, characterization, and CO2/N2 and CO2/CO separation. Journal of Membrane Science, 2019, 587, 117167.	8.2	21
56	Selective ion transport for a vanadium redox flow battery (VRFB) in nano-crack regulated proton exchange membranes. Journal of Membrane Science, 2019, 583, 16-22.	8.2	46
57	Mixed matrix membranes with a thermally rearranged polymer and ZIF-8 for hydrogen separation. Journal of Membrane Science, 2019, 582, 381-390.	8.2	65
58	Mutual influence of mixed-gas permeation in thermally rearranged poly(benzoxazole-co-imide) polymer membranes. Journal of Membrane Science, 2019, 580, 202-213.	8.2	25
59	In situ formation of zeolitic-imidazolate framework thin films and composites using modified polymer substrates. Journal of Materials Chemistry A, 2019, 7, 9680-9689.	10.3	40
60	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. Angewandte Chemie, 2019, 131, 17674-17689.	2.0	68
61	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. Angewandte Chemie - International Edition, 2019, 58, 17512-17527.	13.8	186
62	Polyimides containing aliphatic/alicyclic segments in the main chains. Progress in Polymer Science, 2019, 92, 35-88.	24.7	230
63	A novel green solvent alternative for polymeric membrane preparation via nonsolvent-induced phase separation (NIPS). Journal of Membrane Science, 2019, 574, 44-54.	8.2	205
64	Densification-induced hollow fiber membranes using crosslinked thermally rearranged (XTR) polymer for CO2 capture. Journal of Membrane Science, 2019, 573, 393-402.	8.2	33
65	Bio-Inspired Robust Membranes Nanoengineered from Interpenetrating Polymer Networks of Polybenzimidazole/Polydopamine. ACS Nano, 2019, 13, 125-133.	14.6	112
66	Highly permeable thermally rearranged polymer composite membranes with a graphene oxide scaffold for gas separation. Journal of Materials Chemistry A, 2018, 6, 7668-7674.	10.3	71
67	Thermally rearranged polybenzoxazoles made from poly(ortho-hydroxyamide)s. Characterization and evaluation as gas separation membranes. Reactive and Functional Polymers, 2018, 127, 38-47.	4.1	29
68	Thermally Rearranged Polybenzoxazoles Containing Bulky Adamantyl Groups from Ortho-Substituted Precursor Copolyimides. Macromolecules, 2018, 51, 1605-1619.	4.8	36
69	A robust thin film composite membrane incorporating thermally rearranged polymer support for organic solvent nanofiltration and pressure retarded osmosis. Journal of Membrane Science, 2018, 550, 322-331.	8.2	100
70	Tailoring nonsolvent-thermally induced phase separation (N-TIPS) effect using triple spinneret to fabricate high performance PVDF hollow fiber membranes. Journal of Membrane Science, 2018, 559, 117-126.	8.2	87
71	Ultrathin zeolitic-imidazolate framework ZIF-8 membranes on polymeric hollow fibers for propylene/propane separation. Journal of Membrane Science, 2018, 559, 28-34.	8.2	94
72	A compact and scalable fabrication method for robust thin film composite membranes. Green Chemistry, 2018, 20, 1887-1898.	9.0	31

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73	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. Journal of Membrane Science, 2018, 549, 260-266.	8.2	82
74	Enhanced, hydrophobic, fluorine-containing, thermally rearranged (TR) nanofiber membranes for desalination via membrane distillation. Journal of Membrane Science, 2018, 550, 545-553.	8.2	45
75	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. Angewandte Chemie - International Edition, 2018, 57, 16056-16061.	13.8	39
76	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. Angewandte Chemie, 2018, 130, 16288-16293.	2.0	30
77	Application of spirobiindane-based microporous poly(ether sulfone)s as polymeric binder on solid alkaline exchange membrane fuel cells. Journal of Membrane Science, 2018, 568, 67-75.	8.2	34
78	Novel semi-alicyclic polyimide membranes: Synthesis, characterization, and gas separation properties. Polymer, 2018, 151, 325-333.	3.8	35
79	Sorption and Diffusion of CO2/N2 in gas mixture in thermally-rearranged polymeric membranes: A molecular investigation. Journal of Membrane Science, 2017, 528, 135-146.	8.2	52
80	Effect of cationic groups in poly(arylene ether sulfone) membranes on reverse electrodialysis performance. Chemical Communications, 2017, 53, 2323-2326.	4.1	40
81	Hydrocarbon-Based Polymer Electrolyte Membranes: Importance of Morphology on Ion Transport and Membrane Stability. Chemical Reviews, 2017, 117, 4759-4805.	47.7	732
82	Isomeric influences of naphthalene based sulfonated poly(arylene ether sulfone) membranes for energy generation using reverse electrodialysis and polymer electrolyte membrane fuel cell. Journal of Membrane Science, 2017, 535, 35-44.	8.2	24
83	Highly conductive and durable poly(arylene ether sulfone) anion exchange membrane with end-group cross-linking. Energy and Environmental Science, 2017, 10, 275-285.	30.8	255
84	Wet CO 2 /N 2 permeation through a crosslinked thermally rearranged poly(benzoxazole- co -imide) (XTR-PBOI) hollow fiber membrane module for CO 2 capture. Journal of Membrane Science, 2017, 539, 412-420.	8.2	38
85	Thermally rearranged mixed matrix membranes for CO2 separation: An aging study. International Journal of Greenhouse Gas Control, 2017, 61, 16-26.	4.6	45
86	Exploring and Exploiting the Effect of Solvent Treatment in Membrane Separations. ACS Applied Materials & Interfaces, 2017, 9, 11279-11289.	8.0	66
87	Permeation and separation of SO2, H2S and CO2 through thermally rearranged (TR) polymeric membranes. Separation and Purification Technology, 2017, 179, 449-454.	7.9	31
88	Sorption, diffusion, and permeability of humid gases and aging of thermally rearranged (TR) polymer membranes from a novel ortho-hydroxypolyimide. Journal of Membrane Science, 2017, 542, 439-455.	8.2	22
89	Membrane separation process for CO2 capture from mixed gases using TR and XTR hollow fiber membranes: Process modeling and experiments. Journal of Membrane Science, 2017, 541, 224-234.	8.2	39
90	Open-source predictive simulators for scale-up of direct contact membrane distillation modules for seawater desalination. Desalination, 2017, 402, 72-87.	8.2	35

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91	1.8 Thermally Rearranged Polymeric Membranes: Materials and Applications. , 2017, , 190-215.		2
92	1.15 Effect of Solvents on Membrane Fabrication via Thermally Induced Phase Separation (TIPS): Thermodynamic and Kinetic Perspectives. , 2017, , 386-417.		11
93	Microporous polymeric membranes inspired by adsorbent for gas separation. Journal of Materials Chemistry A, 2017, 5, 13294-13319.	10.3	71
94	Property Changes of Anion Exchange Pore-filling Membranes According to Porous Substrates. Membrane Journal, 2017, 27, 344-349.	0.4	1
95	Thermally induced phase separation and electrospinning methods for emerging membrane applications: A review. AICHE Journal, 2016, 62, 461-490.	3.6	271
96	Understanding the non-solvent induced phase separation (NIPS) effect during the fabrication of microporous PVDF membranes via thermally induced phase separation (TIPS). Journal of Membrane Science, 2016, 514, 250-263.	8.2	351
97	Ternary mixed-gas separation for flue gas CO2 capture using high performance thermally rearranged (TR) hollow fiber membranes. Journal of Membrane Science, 2016, 510, 472-480.	8.2	42
98	Nanocrack-regulated self-humidifying membranes. Nature, 2016, 532, 480-483.	27.8	362
99	In situ restoring of aged thermally rearranged gas separation membranes. Journal of Membrane Science, 2016, 520, 671-678.	8.2	24
100	Fuel cells: Operating flexibly. Nature Energy, 2016, 1, .	39.5	35
101	Thermally rearranged (TR) bismaleimide-based network polymers for gas separation membranes. Chemical Communications, 2016, 52, 13556-13559.	4.1	55
102	Side-chain engineering of ladder-structured polysilsesquioxane membranes for gas separations. Journal of Membrane Science, 2016, 516, 202-214.	8.2	40
103	Thermally rearranged polymer membranes for desalination. Energy and Environmental Science, 2016, 9, 878-884.	30.8	53
104	Effect of end-group cross-linking on transport properties of sulfonated poly(phenylene sulfide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	7.8	35
105	Soluble, microporous, TrÃ¶ger's Base copolyimides with tunable membrane performance for gas separation. Chemical Communications, 2016, 52, 3817-3820.	4.1	75
106	Microporous PVDF membranes via thermally induced phase separation (TIPS) and stretching methods. Journal of Membrane Science, 2016, 509, 94-104.	8.2	132
107	Electrochemical performance of a thermally rearranged polybenzoxazole nanocomposite membrane as a separator for lithium-ion batteries at elevated temperature. Journal of Power Sources, 2016, 305, 259-266.	7.8	24
108	High-strength, soluble polyimide membranes incorporating TrÃ¶gerâ€™s Base for gas separation. Journal of Membrane Science, 2016, 504, 55-65.	8.2	127

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109	The high electrochemical performance of Li 3 V 2 (PO 4) 3 supported by graphene and carbon-nanofibers for advanced Li-ion batteries. Materials Research Bulletin, 2016, 73, 211-218.	5.2	15
110	Thermally rearranged poly(benzoxazole -co- imide) hollow fiber membranes for CO 2 capture. Journal of Membrane Science, 2016, 498, 125-134.	8.2	45
111	Membrane operations for produced water treatment. Desalination and Water Treatment, 2016, 57, 14317-14335.	1.0	24
112	Fabrication of thermally rearranged (TR) polybenzoxazole hollow fiber membranes with superior CO2/N2 separation performance. Journal of Membrane Science, 2015, 490, 129-138.	8.2	56
113	Gas separation membranes made through thermal rearrangement of ortho-methoxypolyimides. RSC Advances, 2015, 5, 102261-102276.	3.6	21
114	Effect of methanol treatment on gas sorption and transport behavior of intrinsically microporous polyimide membranes incorporating TrÃ¶ger×³s base. Journal of Membrane Science, 2015, 480, 104-114.	8.2	67
115	The electrochemical performance of Ni-added Li3V2(PO4)3/graphene composites as cathode material for Li-ion batteries. Materials Letters, 2015, 145, 83-86.	2.6	8
116	Microporous poly(vinylidene fluoride) hollow fiber membranes fabricated with PolarClean as water-soluble green diluent and additives. Journal of Membrane Science, 2015, 479, 204-212.	8.2	112
117	Facile synthesis of monodisperse poly(MAA/EGDMA)/Fe₃O₄ hydrogel microspheres with hollow structures for drug delivery systems: the hollow structure formation mechanism and effects of various metal ions on structural changes. RSC Advances, 2015, 5, 10081-10088.	3.6	21
118	Dually cross-linked polymer electrolyte membranes for direct methanol fuel cells. Journal of Power Sources, 2015, 282, 211-222.	7.8	36
119	Separation of CO2 from humidified ternary gas mixtures using thermally rearranged polymeric membranes. Journal of Membrane Science, 2015, 492, 257-262.	8.2	54
120	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. Macromolecules, 2015, 48, 5286-5299.	4.8	78
121	The effect of SiO2 nanoparticles in Li3V2(PO4)3/graphene as a cathode material for Li-ion batteries. Materials Letters, 2015, 160, 206-209.	2.6	9
122	Soluble sulfonated polybenzothiazoles containing naphthalene for use as proton exchange membranes. Journal of Membrane Science, 2015, 490, 346-353.	8.2	27
123	Crystalline polymorphism in poly(vinylidenefluoride) membranes. Progress in Polymer Science, 2015, 51, 94-126.	24.7	305
124	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes Prepared from ortho-Hydroxycopolyimides Containing Pendant Carboxyl Groups and Gas Separation Properties. Macromolecules, 2015, 48, 2603-2613.	4.8	90
125	Thermally Rearranged Poly(benzoxazole-co-imide) Membranes with Superior Mechanical Strength for Gas Separation Obtained by Tuning Chain Rigidity. Macromolecules, 2015, 48, 2194-2202.	4.8	98
126	Anisotropic radio-chemically pore-filled anion exchange membranes for solid alkaline fuel cell (SAFC). Journal of Membrane Science, 2015, 495, 206-215.	8.2	26

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127	New aromatic polyamides and polyimides having an adamantane bulky group. Materials Today Communications, 2015, 5, 23-31.	1.9	36
128	The electrochemical performance of transition metal and graphene added Li3V2(PO4)3 cathode material for Li-ion Batteries. Materials Letters, 2015, 160, 194-199.	2.6	6
129	Rational molecular design of PEOlated ladder-structured polysilsesquioxane membranes for high performance CO₂ removal. Chemical Communications, 2015, 51, 15308-15311.	4.1	34
130	Thermally rearranged polybenzoxazoles and poly(benzoxazole-co-imide)s from ortho-hydroxyamine monomers for high performance gas separation membranes. Journal of Membrane Science, 2015, 493, 329-339.	8.2	35
131	Sustainable wastewater treatment and recycling in membrane manufacturing. Green Chemistry, 2015, 17, 5196-5205.	9.0	229
132	Simulation and feasibility study of using thermally rearranged polymeric hollow fiber membranes for various industrial gas separation applications. Journal of Membrane Science, 2015, 496, 229-241.	8.2	19
133	Highly lithium-ion conductive battery separators from thermally rearranged polybenzoxazole. Chemical Communications, 2015, 51, 2068-2071.	4.1	31
134	The effect of titanium in Li₃V₂(PO₄)₃/graphene composites as cathode material for high capacity Li-ion batteries. RSC Advances, 2015, 5, 4872-4879.	3.6	22
135	Rigid and microporous polymers for gas separation membranes. Progress in Polymer Science, 2015, 43, 1-32.	24.7	377
136	Tailoring novel fibrillar morphologies in poly(vinylidene fluoride) membranes using a low toxic triethylene glycol diacetate (TEGDA) diluent. Journal of Membrane Science, 2015, 473, 128-136.	8.2	64
137	Gas sorption and transport in thermally rearranged polybenzoxazole membranes derived from polyhydroxylamides. Journal of Membrane Science, 2015, 474, 122-131.	8.2	38
138	Modeling of Multicomponent Mixture Separation Processes Using Hollowfiber Membrane. Korean Chemical Engineering Research, 2015, 53, 22-30.	0.2	0
139	Structural influence of hydrophobic diamine in sulfonated poly(sulfide sulfone imide) copolymers on medium temperature PEM fuel cell. Polymer, 2014, 55, 1317-1326.	3.8	34
140	Synthesis and electrochemical performance of high-capacity 0.34Li2MnO3Â·0.66LiMn0.63Ni0.24Co0.13O2 cathode materials using a Couetteâ€“Taylor reactor. Materials Research Bulletin, 2014, 58, 223-228.	5.2	6
141	Swelling agent adopted decal transfer method for membrane electrode assembly fabrication. Journal of Power Sources, 2014, 258, 272-280.	7.8	11
142	Recent progress in fluoropolymers for membranes. Progress in Polymer Science, 2014, 39, 164-198.	24.7	402
143	Proton conducting, composite sulfonated polymer membrane for medium temperature and low relative humidity fuel cells. Journal of Power Sources, 2014, 262, 162-168.	7.8	15
144	Effect of crosslinking on the durability and electrochemical performance of sulfonated aromatic polymer membranes at elevated temperatures. International Journal of Hydrogen Energy, 2014, 39, 4459-4467.	7.1	20

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145	Intrinsically Microporous Soluble Polyimides Incorporating TrÃ¶gerâ€™s Base for Membrane Gas Separation. Macromolecules, 2014, 47, 3254-3262.	4.8	219
146	Engineering evaluation of CO2 separation by membrane gas separation systems. Journal of Membrane Science, 2014, 454, 305-315.	8.2	81
147	Effect of Isomerism on Molecular Packing and Gas Transport Properties of Poly(benzoxazole-co-imide)s. Macromolecules, 2014, 47, 7947-7957.	4.8	76
148	A Simulation Study on OH-Containing Polyimide (HPI) and Thermally Rearranged Polybenzoxazoles (TR-PBO): Relationship between Gas Transport Properties and Free Volume Morphology. Journal of Physical Chemistry B, 2014, 118, 2746-2757.	2.6	63
149	Enhanced electrochemical performance of Li3V2(PO4)3/Agâ€“graphene composites as cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 7873.	10.3	28
150	Durable Sulfonated Poly(benzothiazole-co-benzimidazole) Proton Exchange Membranes. Macromolecules, 2014, 47, 6355-6364.	4.8	49
151	EB-crosslinked SPEEK electrolyte membrane with 1,4-butanediol divinyl ether/triallyl isocyanurate for fuel cell application. Journal of Membrane Science, 2014, 469, 209-215.	8.2	21
152	PVDF hollow fiber membranes prepared from green diluent via thermally induced phase separation: Effect of PVDF molecular weight. Journal of Membrane Science, 2014, 471, 237-246.	8.2	97
153	Molecular modeling of poly(benzoxazole-co-imide) membranes: A structure characterization and performance investigation. Journal of Membrane Science, 2014, 454, 1-11.	8.2	55
154	Gas sorption, diffusion, and permeation in thermally rearranged poly(benzoxazole-co-imide) membranes. Journal of Membrane Science, 2014, 453, 556-565.	8.2	44
155	Highly proton-conductive thermally rearranged polybenzoxazole for medium-temperature and low-humidity polymer electrolyte fuel cells. Journal of Power Sources, 2014, 247, 286-293.	7.8	13
156	Ultra-thin Al2O3 coating on the acid-treated 0.3Li2MnO3â‹…0.7LiMn0.60Ni0.25Co0.15O2 electrode for Li-ion batteries. Journal of Alloys and Compounds, 2014, 608, 110-117.	5.5	32
157	Thermally rearranged polybenzoxazoles membranes with biphenyl moieties: Monomer isomeric effect. Journal of Membrane Science, 2014, 450, 369-379.	8.2	80
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