

# Young Moo Lee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

485  
papers

29,269  
citations

93  
h-index

146  
g-index

501  
ext. papers

32,109  
ext. citations

7.8  
avg, IF

7.47  
L-index

#	Paper	IF	Citations
485	Anion-conducting polyelectrolytes for energy devices. <i>Trends in Chemistry</i> , <b>2022</b> ,	14.8	3
484	Strategies for Improving Anion Exchange Membrane Fuel Cell Performance by Optimizing Electrode Conditions. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 014515	3.9	0
483	Elucidating the role of alkyl chain in poly(aryl piperidinium) copolymers for anion exchange membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2022</b> , 647, 120341	9.6	0
482	Effect of structural isomerism on physical and gas transport properties of Tröger's Base-based polyimides. <i>Polymer</i> , <b>2022</b> , 239, 124412	3.9	3
481	Reinforced poly(fluorenyl-co-terphenyl piperidinium) anion exchange membranes for fuel cells. <i>Journal of Membrane Science</i> , <b>2022</b> , 644, 120160	9.6	1
480	Design strategy of poly(vinylidene fluoride) membranes for water treatment. <i>Progress in Polymer Science</i> , <b>2022</b> , 128, 101535	29.6	9
479	Robust PVDF/PSF hollow-fiber membranes modified with inorganic TiO <sub>2</sub> particles for enhanced oil-water separation. <i>Journal of Membrane Science</i> , <b>2022</b> , 652, 120470	9.6	1
478	Impact of side-chains in poly(dibenzyl-co-terphenyl piperidinium) copolymers for anion exchange membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2021</b> , 644, 120109	9.6	5
477	Fabrication and modification of PVDF/PSF hollow-fiber membranes for ginseng extract and saline water separations via direct contact membrane distillation. <i>Journal of Membrane Science</i> , <b>2021</b> , 120101	9.6	8
476	Recent advances in polymer membranes employing non-toxic solvents and materials. <i>Green Chemistry</i> , <b>2021</b> , 23, 9815-9843	10	14
475	Rücktitelbild: Poly(Alkyl-Terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkaline-Membrane Fuel-Cell Performance of 2.58 W cm <sup>2</sup> (Angew. Chem. 14/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8060-8060	3.6	
474	Poly(fluorenyl aryl piperidinium) membranes and ionomers for anion exchange membrane fuel cells. <i>Nature Communications</i> , <b>2021</b> , 12, 2367	17.4	59
473	Thermally rearranged semi-interpenetrating polymer network (TR-SIPN) membranes for gas and olefin/paraffin separation. <i>Journal of Membrane Science</i> , <b>2021</b> , 625, 119157	9.6	13
472	Insight into the Alkaline Stability of N-Heterocyclic Ammonium Groups for Anion-Exchange Polyelectrolytes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19272-19280	16.4	17
471	Insight into the Alkaline Stability of N-Heterocyclic Ammonium Groups for Anion-Exchange Polyelectrolytes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19421-19429	3.6	3
470	Microfiber aligned hollow fiber membranes from immiscible polymer solutions by phase inversion. <i>Journal of Membrane Science</i> , <b>2021</b> , 617, 118654	9.6	13
469	Poly(Alkyl-Terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkaline-Membrane Fuel-Cell Performance of 2.58 W cm. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7710-7718	16.4	58

468	Molecular sieving using metal-polymer coordination membranes in organic media. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14400-14410	13	6
467	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</i> , <b>2021</b> , 133, 7789-7797	3.6	14
466	Anion exchange polyelectrolytes for membranes and ionomers. <i>Progress in Polymer Science</i> , <b>2021</b> , 113, 101345	29.6	84
465	Microporous polymers with cascaded cavities for controlled transport of small gas molecules. <i>Science Advances</i> , <b>2021</b> , 7, eabi9062	14.3	7
464	Membrane distillation & pressure retarded osmosis hybrid system using thermally rearranged nanofibrous membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 638, 119735	9.6	2
463	In-situ grown inorganic layer coated PVDF/PSF composite hollow fiber membranes with enhanced separation performance. <i>Journal of Membrane Science</i> , <b>2021</b> , 637, 119632	9.6	8
462	High-performance poly(fluorenyl aryl piperidinium)-based anion exchange membrane fuel cells with realistic hydrogen supply. <i>Journal of Power Sources</i> , <b>2021</b> , 512, 230474	8.9	2
461	Chemically & physically stable crosslinked poly(aryl-co-aryl piperidinium)s for anion exchange membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2021</b> , 638, 119685	9.6	12
460	Effects of bulky 2,2'-substituents in dianhydrides on the microstructures and gas transport properties of thermally rearranged polybenzoxazoles. <i>Journal of Membrane Science</i> , <b>2021</b> , 639, 119777	9.6	1
459	Branched Poly(Aryl Piperidinium) Membranes for Anion-Exchange Membrane Fuel Cells.. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , e202114892	16.4	3
458	Effect of N-cyclic cationic groups in poly(phenylene oxide)-based catalyst ionomer membranes for anion exchange membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2020</b> , 608, 118183	9.6	17
457	Tröger's Base (TB)-containing polyimide membranes derived from bio-based dianhydrides for gas separations. <i>Journal of Membrane Science</i> , <b>2020</b> , 610, 118255	9.6	18
456	Alicyclic segments upgrade hydrogen separation performance of intrinsically microporous polyimide membranes. <i>Journal of Membrane Science</i> , <b>2020</b> , 611, 118363	9.6	16
455	Recent progress in microporous polymers from thermally rearranged polymers and polymers of intrinsic microporosity for membrane gas separation: Pushing performance limits and revisiting trade-off lines. <i>Journal of Polymer Science</i> , <b>2020</b> , 58, 2450-2466	2.4	24
454	Electrical Tunable PVDF/Graphene Membrane for Controlled Molecule Separation. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5750-5758	9.6	17
453	N3-butyl imidazolium-based anion exchange membranes blended with Poly(vinyl alcohol) for alkaline water electrolysis. <i>Journal of Membrane Science</i> , <b>2020</b> , 611, 118355	9.6	24
452	Thermally rearranged polymer membranes containing highly rigid biphenyl ortho-hydroxyl diamine for hydrogen separation. <i>Journal of Membrane Science</i> , <b>2020</b> , 604, 118053	9.6	21
451	A highly robust and water permeable thin film composite membranes for pressure retarded osmosis generating 26 W m <sup>2</sup> at 21 bar. <i>Desalination</i> , <b>2020</b> , 483, 114409	10.3	17

450	Effects of sulfonate incorporation and structural isomerism on physical and gas transport properties of soluble sulfonated polyimides. <i>Polymer</i> , <b>2020</b> , 191, 122263	3.9	11
449	Lithium recovery from artificial brine using energy-efficient membrane distillation and nanofiltration. <i>Journal of Membrane Science</i> , <b>2020</b> , 598, 117683	9.6	32
448	Thermally rearranged polybenzoxazole copolymers incorporating Tröger's base for high flux gas separation membranes. <i>Journal of Membrane Science</i> , <b>2020</b> , 612, 118437	9.6	20
447	Highly permeable polyimides incorporating Tröger's base (TB) units for gas separation membranes. <i>Journal of Membrane Science</i> , <b>2020</b> , 615, 118533	9.6	10
446	Energy and time efficient infrared (IR) irradiation treatment for preparing thermally rearranged (TR) and carbon molecular sieve (CMS) membranes for gas separation. <i>Journal of Membrane Science</i> , <b>2020</b> , 613, 118477	9.6	8
445	Low energy intensity production of fuel-grade bio-butanol enabled by membrane-based extraction. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4862-4871	35.4	6
444	Blood Oxygenation Using Fluoropolymer-Based Artificial Lung Membranes. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 6424-6434	5.5	9
443	Dimensionally-controlled densification in crosslinked thermally rearranged (XTR) hollow fiber membranes for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , <b>2020</b> , 595, 117535	9.6	15
442	Piezoelectric PVDF membranes for use in anaerobic membrane bioreactor (AnMBR) and their antifouling performance. <i>Journal of Membrane Science</i> , <b>2020</b> , 603, 118037	9.6	17
441	Thin film composite on fluorinated thermally rearranged polymer nanofibrous membrane achieves power density of 87 W/m <sup>2</sup> in pressure retarded osmosis, improving economics of osmotic heat engine. <i>Journal of Membrane Science</i> , <b>2020</b> , 607, 118120	9.6	16
440	Highly permeable Thermally Rearranged Mixed Matrix Membranes (TR-MMM). <i>Journal of Membrane Science</i> , <b>2019</b> , 585, 260-270	9.6	30
439	UV-crosslinked poly(PEGMA-co-MMA-co-BPMA) membranes: Synthesis, characterization, and CO <sub>2</sub> /N <sub>2</sub> and CO <sub>2</sub> /CO separation. <i>Journal of Membrane Science</i> , <b>2019</b> , 587, 117167	9.6	15
438	Selective ion transport for a vanadium redox flow battery (VRFB) in nano-crack regulated proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2019</b> , 583, 16-22	9.6	30
437	Mixed matrix membranes with a thermally rearranged polymer and ZIF-8 for hydrogen separation. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 381-390	9.6	44
436	Mutual influence of mixed-gas permeation in thermally rearranged poly(benzoxazole-co-imide) polymer membranes. <i>Journal of Membrane Science</i> , <b>2019</b> , 580, 202-213	9.6	17
435	In situ formation of zeolitic-imidazolate framework thin films and composites using modified polymer substrates. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9680-9689	13	28
434	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17674-17689	3.6	32
433	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17512-17527	16.4	111

432	Synthesis of Ultrathin Zeolitic Imidazolate Framework ZIF-8 Membranes on Polymer Hollow Fibers Using a Polymer Modification Strategy for Propylene/Propane Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 14947-14953	3.9	15
431	Polyimides containing aliphatic/alicyclic segments in the main chains. <i>Progress in Polymer Science</i> , <b>2019</b> , 92, 35-88	29.6	123
430	A novel green solvent alternative for polymeric membrane preparation via nonsolvent-induced phase separation (NIPS). <i>Journal of Membrane Science</i> , <b>2019</b> , 574, 44-54	9.6	121
429	Densification-induced hollow fiber membranes using crosslinked thermally rearranged (XTR) polymer for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , <b>2019</b> , 573, 393-402	9.6	24
428	Bio-Inspired Robust Membranes Nanoengineered from Interpenetrating Polymer Networks of Polybenzimidazole/Polydopamine. <i>ACS Nano</i> , <b>2019</b> , 13, 125-133	16.7	78
427	Highly permeable thermally rearranged polymer composite membranes with a graphene oxide scaffold for gas separation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7668-7674	13	54
426	Thermally rearranged polybenzoxazoles made from poly(ortho-hydroxyamide)s. Characterization and evaluation as gas separation membranes. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 127, 38-47	4.6	20
425	Thermally Rearranged Polybenzoxazoles Containing Bulky Adamantyl Groups from Ortho-Substituted Precursor Copolyimides. <i>Macromolecules</i> , <b>2018</b> , 51, 1605-1619	5.5	25
424	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> , <b>2018</b> , 550, 322-331	9.6	78
423	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> , <b>2018</b> , 559, 117-126	9.6	58
422	Ultrathin zeolitic-imidazolate framework ZIF-8 membranes on polymeric hollow fibers for propylene/propane separation. <i>Journal of Membrane Science</i> , <b>2018</b> , 559, 28-34	9.6	71
421	A compact and scalable fabrication method for robust thin film composite membranes. <i>Green Chemistry</i> , <b>2018</b> , 20, 1887-1898	10	23
420	Novel semi-alicyclic polyimide membranes: Synthesis, characterization, and gas separation properties. <i>Polymer</i> , <b>2018</b> , 151, 325-333	3.9	24
419	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> , <b>2018</b> , 549, 260-266	9.6	60
418	Enhanced, hydrophobic, fluorine-containing, thermally rearranged (TR) nanofiber membranes for desalination via membrane distillation. <i>Journal of Membrane Science</i> , <b>2018</b> , 550, 545-553	9.6	38
417	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16056-16061	16.4	24
416	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16288-16293	3.6	24
415	Application of spirobiindane-based microporous poly(ether sulfone)s as polymeric binder on solid alkaline exchange membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2018</b> , 568, 67-75	9.6	21

4 <sup>14</sup>	Sorption and Diffusion of CO <sub>2</sub> /N <sub>2</sub> in gas mixture in thermally-rearranged polymeric membranes: A molecular investigation. <i>Journal of Membrane Science</i> , <b>2017</b> , 528, 135-146	9.6	36
4 <sup>13</sup>	Effect of cationic groups in poly(arylene ether sulfone) membranes on reverse electrodialysis performance. <i>Chemical Communications</i> , <b>2017</b> , 53, 2323-2326	5.8	32
4 <sup>12</sup>	Hydrocarbon-Based Polymer Electrolyte Membranes: Importance of Morphology on Ion Transport and Membrane Stability. <i>Chemical Reviews</i> , <b>2017</b> , 117, 4759-4805	68.1	525
4 <sup>11</sup>	Isomeric influences of naphthalene based sulfonated poly(arylene ether sulfone) membranes for energy generation using reverse electrodialysis and polymer electrolyte membrane fuel cell. <i>Journal of Membrane Science</i> , <b>2017</b> , 535, 35-44	9.6	19
4 <sup>10</sup>	Highly conductive and durable poly(arylene ether sulfone) anion exchange membrane with end-group cross-linking. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 275-285	35.4	196
4 <sup>09</sup>	Wet CO <sub>2</sub> /N <sub>2</sub> permeation through a crosslinked thermally rearranged poly(benzoxazole- co -imide) (XTR-PBOI) hollow fiber membrane module for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , <b>2017</b> , 539, 412-420	9.6	36
4 <sup>08</sup>	Thermally rearranged mixed matrix membranes for CO <sub>2</sub> separation: An aging study. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 61, 16-26	4.2	37
4 <sup>07</sup>	Exploring and Exploiting the Effect of Solvent Treatment in Membrane Separations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 11279-11289	9.5	51
4 <sup>06</sup>	Permeation and separation of SO <sub>2</sub> , H <sub>2</sub> S and CO <sub>2</sub> through thermally rearranged (TR) polymeric membranes. <i>Separation and Purification Technology</i> , <b>2017</b> , 179, 449-454	8.3	24
4 <sup>05</sup>	1.8 Thermally Rearranged Polymeric Membranes: Materials and Applications <b>2017</b> , 190-215		1
4 <sup>04</sup>	1.15 Effect of Solvents on Membrane Fabrication via Thermally Induced Phase Separation (TIPS): Thermodynamic and Kinetic Perspectives <b>2017</b> , 386-417		9
4 <sup>03</sup>	Sorption, diffusion, and permeability of humid gases and aging of thermally rearranged (TR) polymer membranes from a novel ortho-hydroxypolyimide. <i>Journal of Membrane Science</i> , <b>2017</b> , 542, 439-455	9.6	13
4 <sup>02</sup>	Membrane separation process for CO <sub>2</sub> capture from mixed gases using TR and XTR hollow fiber membranes: Process modeling and experiments. <i>Journal of Membrane Science</i> , <b>2017</b> , 541, 224-234	9.6	28
4 <sup>01</sup>	Open-source predictive simulators for scale-up of direct contact membrane distillation modules for seawater desalination. <i>Desalination</i> , <b>2017</b> , 402, 72-87	10.3	28
4 <sup>00</sup>	Microporous polymeric membranes inspired by adsorbent for gas separation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13294-13319	13	61
399	Membrane operations for produced water treatment. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 14317-14335		50
398	Thermally rearranged (TR) bismaleimide-based network polymers for gas separation membranes. <i>Chemical Communications</i> , <b>2016</b> , 52, 13556-13559	5.8	46
397	Side-chain engineering of ladder-structured polysilsesquioxane membranes for gas separations. <i>Journal of Membrane Science</i> , <b>2016</b> , 516, 202-214	9.6	32

396	Thermally rearranged polymer membranes for desalination. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 878-884	35.4	45
395	Effect of end-group cross-linking on transport properties of sulfonated poly(phenylene sulfide nitrile)s for proton exchange membranes. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 834-843	8.9	33
394	Soluble, microporous, Tröger's Base copolyimides with tunable membrane performance for gas separation. <i>Chemical Communications</i> , <b>2016</b> , 52, 3817-20	5.8	66
393	Microporous PVDF membranes via thermally induced phase separation (TIPS) and stretching methods. <i>Journal of Membrane Science</i> , <b>2016</b> , 509, 94-104	9.6	99
392	Electrochemical performance of a thermally rearranged polybenzoxazole nanocomposite membrane as a separator for lithium-ion batteries at elevated temperature. <i>Journal of Power Sources</i> , <b>2016</b> , 305, 259-266	8.9	19
391	High-strength, soluble polyimide membranes incorporating Tröger's Base for gas separation. <i>Journal of Membrane Science</i> , <b>2016</b> , 504, 55-65	9.6	103
390	The high electrochemical performance of $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ supported by graphene and carbon-nanofibers for advanced Li-ion batteries. <i>Materials Research Bulletin</i> , <b>2016</b> , 73, 211-218	5.1	12
389	Thermally rearranged poly(benzoxazole-co-imide) hollow fiber membranes for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , <b>2016</b> , 498, 125-134	9.6	40
388	Thermally induced phase separation and electrospinning methods for emerging membrane applications: A review. <i>AIChE Journal</i> , <b>2016</b> , 62, 461-490	3.6	191
387	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> , <b>2016</b> , 514, 250-263	9.6	230
386	Ternary mixed-gas separation for flue gas CO <sub>2</sub> capture using high performance thermally rearranged (TR) hollow fiber membranes. <i>Journal of Membrane Science</i> , <b>2016</b> , 510, 472-480	9.6	34
385	Nanocrack-regulated self-humidifying membranes. <i>Nature</i> , <b>2016</b> , 532, 480-3	50.4	281
384	In situ restoring of aged thermally rearranged gas separation membranes. <i>Journal of Membrane Science</i> , <b>2016</b> , 520, 671-678	9.6	17
383	Separation of CO <sub>2</sub> from humidified ternary gas mixtures using thermally rearranged polymeric membranes. <i>Journal of Membrane Science</i> , <b>2015</b> , 492, 257-262	9.6	46
382	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. <i>Macromolecules</i> , <b>2015</b> , 48, 5286-5299	5.5	63
381	The effect of SiO <sub>2</sub> nanoparticles in $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ /graphene as a cathode material for Li-ion batteries. <i>Materials Letters</i> , <b>2015</b> , 160, 206-209	3.3	8
380	Soluble sulfonated polybenzothiazoles containing naphthalene for use as proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2015</b> , 490, 346-353	9.6	19
379	Crystalline polymorphism in poly(vinylidene fluoride) membranes. <i>Progress in Polymer Science</i> , <b>2015</b> , 51, 94-126	29.6	195

378	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes Prepared from ortho-Hydroxycopolyimides Containing Pendant Carboxyl Groups and Gas Separation Properties. <i>Macromolecules</i> , <b>2015</b> , 48, 2603-2613	5.5	72
377	Thermally Rearranged Poly(benzoxazole-co-imide) Membranes with Superior Mechanical Strength for Gas Separation Obtained by Tuning Chain Rigidity. <i>Macromolecules</i> , <b>2015</b> , 48, 2194-2202	5.5	87
376	Anisotropic radio-chemically pore-filled anion exchange membranes for solid alkaline fuel cell (SAFC). <i>Journal of Membrane Science</i> , <b>2015</b> , 495, 206-215	9.6	20
375	New aromatic polyamides and polyimides having an adamantane bulky group. <i>Materials Today Communications</i> , <b>2015</b> , 5, 23-31	2.5	29
374	The electrochemical performance of transition metal and graphene added Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode material for Li-ion Batteries. <i>Materials Letters</i> , <b>2015</b> , 160, 194-199	3.3	4
373	Rational molecular design of PEOlated ladder-structured polysilsesquioxane membranes for high performance CO <sub>2</sub> removal. <i>Chemical Communications</i> , <b>2015</b> , 51, 15308-11	5.8	30
372	Thermally rearranged polybenzoxazoles and poly(benzoxazole-co-imide)s from ortho-hydroxyamine monomers for high performance gas separation membranes. <i>Journal of Membrane Science</i> , <b>2015</b> , 493, 329-339	9.6	31
371	Sustainable wastewater treatment and recycling in membrane manufacturing. <i>Green Chemistry</i> , <b>2015</b> , 17, 5196-5205	10	178
370	Simulation and feasibility study of using thermally rearranged polymeric hollow fiber membranes for various industrial gas separation applications. <i>Journal of Membrane Science</i> , <b>2015</b> , 496, 229-241	9.6	18
369	Highly lithium-ion conductive battery separators from thermally rearranged polybenzoxazole. <i>Chemical Communications</i> , <b>2015</b> , 51, 2068-71	5.8	27
368	The effect of titanium in Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /graphene composites as cathode material for high capacity Li-ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 4872-4879	3.7	21
367	Rigid and microporous polymers for gas separation membranes. <i>Progress in Polymer Science</i> , <b>2015</b> , 43, 1-32	29.6	304
366	Tailoring novel fibrillar morphologies in poly(vinylidene fluoride) membranes using a low toxic triethylene glycol diacetate (TEGDA) diluent. <i>Journal of Membrane Science</i> , <b>2015</b> , 473, 128-136	9.6	53
365	Gas sorption and transport in thermally rearranged polybenzoxazole membranes derived from polyhydroxylamides. <i>Journal of Membrane Science</i> , <b>2015</b> , 474, 122-131	9.6	33
364	Fabrication of thermally rearranged (TR) polybenzoxazole hollow fiber membranes with superior CO <sub>2</sub> /N <sub>2</sub> separation performance. <i>Journal of Membrane Science</i> , <b>2015</b> , 490, 129-138	9.6	46
363	Gas separation membranes made through thermal rearrangement of ortho-methoxypolyimides. <i>RSC Advances</i> , <b>2015</b> , 5, 102261-102276	3.7	17
362	Effect of methanol treatment on gas sorption and transport behavior of intrinsically microporous polyimide membranes incorporating Tröger's base. <i>Journal of Membrane Science</i> , <b>2015</b> , 480, 104-114	9.6	59
361	The electrochemical performance of Ni-added Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /graphene composites as cathode material for Li-ion batteries. <i>Materials Letters</i> , <b>2015</b> , 145, 83-86	3.3	7



360	Microporous poly(vinylidene fluoride) hollow fiber membranes fabricated with PolarClean as water-soluble green diluent and additives. <i>Journal of Membrane Science</i> , <b>2015</b> , 479, 204-212	9.6	80
359	Facile synthesis of monodisperse poly(MAA/EGDMA)/Fe <sub>3</sub> O <sub>4</sub> hydrogel microspheres with hollow structures for drug delivery systems: the hollow structure formation mechanism and effects of various metal ions on structural changes. <i>RSC Advances</i> , <b>2015</b> , 5, 10081-10088	3.7	19
358	Dually cross-linked polymer electrolyte membranes for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 282, 211-222	8.9	34
357	Modeling of Multicomponent Mixture Separation Processes Using Hollowfiber Membrane. <i>Korean Chemical Engineering Research</i> , <b>2015</b> , 53, 22-30		
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355	Intrinsically Microporous Soluble Polyimides Incorporating Triethyl Base for Membrane Gas Separation. <i>Macromolecules</i> , <b>2014</b> , 47, 3254-3262	5.5	185
354	Engineering evaluation of CO <sub>2</sub> separation by membrane gas separation systems. <i>Journal of Membrane Science</i> , <b>2014</b> , 454, 305-315	9.6	59
353	Effect of Isomerism on Molecular Packing and Gas Transport Properties of Poly(benzoxazole-co-imide)s. <i>Macromolecules</i> , <b>2014</b> , 47, 7947-7957	5.5	63
352	A simulation study on OH-containing polyimide (HPI) and thermally rearranged polybenzoxazoles (TR-PBO): relationship between gas transport properties and free volume morphology. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 2746-57	3.4	48
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350	Durable Sulfonated Poly(benzothiazole-co-benzimidazole) Proton Exchange Membranes. <i>Macromolecules</i> , <b>2014</b> , 47, 6355-6364	5.5	36
349	EB-crosslinked SPEEK electrolyte membrane with 1,4-butanediol divinyl ether/triallyl isocyanurate for fuel cell application. <i>Journal of Membrane Science</i> , <b>2014</b> , 469, 209-215	9.6	18
348	PVDF hollow fiber membranes prepared from green diluent via thermally induced phase separation: Effect of PVDF molecular weight. <i>Journal of Membrane Science</i> , <b>2014</b> , 471, 237-246	9.6	71
347	Molecular modeling of poly(benzoxazole-co-imide) membranes: A structure characterization and performance investigation. <i>Journal of Membrane Science</i> , <b>2014</b> , 454, 1-11	9.6	42
346	Gas sorption, diffusion, and permeation in thermally rearranged poly(benzoxazole-co-imide) membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 453, 556-565	9.6	36
345	Highly proton-conductive thermally rearranged polybenzoxazole for medium-temperature and low-humidity polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 247, 286-293	8.9	11
344	Ultra-thin Al <sub>2</sub> O <sub>3</sub> coating on the acid-treated 0.3Li <sub>2</sub> MnO <sub>3</sub> ·0.7LiMn <sub>0.60</sub> Ni <sub>0.25</sub> Co <sub>0.15</sub> O <sub>2</sub> electrode for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 608, 110-117	5.7	30
343	Thermally rearranged polybenzoxazoles membranes with biphenyl moieties: Monomer isomeric effect. <i>Journal of Membrane Science</i> , <b>2014</b> , 450, 369-379	9.6	64

342	Structural influence of hydrophobic diamine in sulfonated poly(sulfide sulfone imide) copolymers on medium temperature PEM fuel cell. <i>Polymer</i> , <b>2014</b> , 55, 1317-1326	3.9	28
341	Synthesis and electrochemical performance of high-capacity 0.34Li <sub>2</sub> MnO <sub>3</sub> □ <sub>0.66</sub> LiMn <sub>0.63</sub> Ni <sub>0.24</sub> Co <sub>0.13</sub> O <sub>2</sub> cathode materials using a Couette-Taylor reactor. <i>Materials Research Bulletin</i> , <b>2014</b> , 58, 223-228	5.1	6
340	Swelling agent adopted decal transfer method for membrane electrode assembly fabrication. <i>Journal of Power Sources</i> , <b>2014</b> , 258, 272-280	8.9	9
339	Recent progress in fluoropolymers for membranes. <i>Progress in Polymer Science</i> , <b>2014</b> , 39, 164-198	29.6	313
338	Proton conducting, composite sulfonated polymer membrane for medium temperature and low relative humidity fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 262, 162-168	8.9	12
337	The Electrochemical Performance of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /Graphene Nano-powder Composites as Cathode Material for Li-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , <b>2014</b> , 5, 109-114	3.2	3
336	The Electrochemical Performance of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /Graphene Nano-powder Composites as Cathode Material for Li-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , <b>2014</b> , 5, 109-114	3.2	
335	Durable Sulfonated Poly(arylene sulfide sulfone nitrile)s Containing Naphthalene Units for Direct Methanol Fuel Cells (DMFCs). <i>Macromolecules</i> , <b>2013</b> , 46, 3452-3460	5.5	92
334	One-pot template-free synthesis of monodisperse hollow hydrogel microspheres and their resulting properties. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 1243-8	4.8	9
333	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes for Gas Separation. <i>Macromolecules</i> , <b>2013</b> , 46, 8179-8189	5.5	92
332	Sulfonated Poly(arylene sulfide sulfone nitrile) Multiblock Copolymers with Ordered Morphology for Proton Exchange Membranes. <i>Macromolecules</i> , <b>2013</b> , 46, 7797-7804	5.5	62
331	Architecturing Nanospace via Thermal Rearrangement for Highly Efficient Gas Separations. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 24654-24661	3.8	12
330	Mechanically robust thermally rearranged (TR) polymer membranes with spirobisindane for gas separation. <i>Journal of Membrane Science</i> , <b>2013</b> , 434, 137-147	9.6	143
329	High performance polymer membranes for CO <sub>2</sub> separation. <i>Current Opinion in Chemical Engineering</i> , <b>2013</b> , 2, 238-244	5.4	66
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94	Pervaporation of ethylene glycol/water mixtures. <i>Journal of Membrane Science</i> , <b>1999</b> , 153, 155-162	9.6	45
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74	Graft copolymerization of mixtures of acrylic acid and acrylamide onto polypropylene film <b>1999</b> , 72, 251		1
73	Synthesis and characteristics of interpenetrating polymer network hydrogel composed of chitosan and poly(acrylic acid) <b>1999</b> , 73, 113		7



72	Drug release behavior of electrical responsive poly(vinyl alcohol)/poly(acrylic acid) IPN hydrogels under an electric stimulus <b>1999</b> , 74, 1752		3
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70	Studies on gelatin-containing artificial skin: II. Preparation and characterization of cross-linked gelatin-hyaluronate sponge <b>1999</b> , 48, 631		11
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