

Young Moo Lee

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485
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501
ext. papers

32,109
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
485	Polymers with cavities tuned for fast selective transport of small molecules and ions. <i>Science</i> , 2007 , 318, 254-8	33.3	791
484	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	29.6	530
483	Hydrocarbon-Based Polymer Electrolyte Membranes: Importance of Morphology on Ion Transport and Membrane Stability. <i>Chemical Reviews</i> , 2017 , 117, 4759-4805	68.1	525
482	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	9.6	355
481	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	9.6	343
480	Gas permeation properties of poly(amide-6-b-ethylene oxide)/silica hybrid membranes. <i>Journal of Membrane Science</i> , 2001 , 193, 209-225	9.6	336
479	Study on gelatin-containing artificial skin: I. Preparation and characteristics of novel gelatin-alginate sponge. <i>Biomaterials</i> , 1999 , 20, 409-17	15.6	336
478	Recent progress in fluoropolymers for membranes. <i>Progress in Polymer Science</i> , 2014 , 39, 164-198	29.6	313
477	Rigid and microporous polymers for gas separation membranes. <i>Progress in Polymer Science</i> , 2015 , 43, 1-32	29.6	304
476	Metal-organic framework membranes fabricated via reactive seeding. <i>Chemical Communications</i> , 2011 , 47, 737-9	5.8	304
475	Collagen scaffolds derived from a marine source and their biocompatibility. <i>Biomaterials</i> , 2006 , 27, 2951-516	15.6	300
474	Thermally rearranged (TR) polymer membranes for CO ₂ separation. <i>Journal of Membrane Science</i> , 2010 , 359, 11-24	9.6	298
473	Methoxy poly(ethylene glycol) and epsilon-caprolactone amphiphilic block copolymeric micelle containing indomethacin. II. Micelle formation and drug release behaviours. <i>Journal of Controlled Release</i> , 1998 , 51, 13-22	11.7	285
472	Nanocrack-regulated self-humidifying membranes. <i>Nature</i> , 2016 , 532, 480-3	50.4	281
471	Gas permeation of poly(amide-6-b-ethylene oxide) copolymer. <i>Journal of Membrane Science</i> , 2001 , 190, 179-193	9.6	266
470	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	3.9	250
469	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, 1053-61	15.6	248

468	Synthesis and characteristics of interpenetrating polymer network hydrogel composed of chitosan and poly(acrylic acid) 1999 , 73, 113-120		234
467	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	9.6	230
466	Methoxy poly(ethylene glycol)/epsilon-caprolactone amphiphilic block copolymeric micelle containing indomethacin. I. Preparation and characterization. <i>Journal of Controlled Release</i> , 1998 , 51, 1-11	11.7	224
465	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, 158-68	11.7	216
464	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, 1697-704	15.6	208
463	Clonazepam release from core-shell type nanoparticles in vitro. <i>Journal of Controlled Release</i> , 1998 , 51, 169-78	11.7	203
462	Thermally Rearranged (TR) Polybenzoxazole: Effects of Diverse Imidization Routes on Physical Properties and Gas Transport Behaviors. <i>Macromolecules</i> , 2010 , 43, 7657-7667	5.5	199
461	In vivo biocompatibility and degradation behavior of elastic poly(L-lactide-co-epsilon-caprolactone) scaffolds. <i>Biomaterials</i> , 2004 , 25, 5939-46	15.6	199
460	Importance of Proton Conductivity Measurement in Polymer Electrolyte Membrane for Fuel Cell Application. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7617-7626	3.9	197
459	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	35.4	196
458	Rapid temperature/pH response of porous alginate-g-poly(N-isopropylacrylamide) hydrogels. <i>Polymer</i> , 2002 , 43, 7549-7558	3.9	196
457	Crystalline polymorphism in poly(vinylidene fluoride) membranes. <i>Progress in Polymer Science</i> , 2015 , 51, 94-126	29.6	195
456	Proton conductivity and methanol transport behavior of cross-linked PVA/PAA/silica hybrid membranes. <i>Solid State Ionics</i> , 2005 , 176, 117-126	3.3	194
455	Thermally induced phase separation and electrospinning methods for emerging membrane applications: A review. <i>AIChE Journal</i> , 2016 , 62, 461-490	3.6	191
454	Materials science. Polymer rigidity improves microporous membranes. <i>Science</i> , 2013 , 339, 284-5	33.3	188
453	Fluorene-Based Poly(arylene ether sulfone)s Containing Clustered Flexible Pendant Sulfonic Acids as Proton Exchange Membranes. <i>Macromolecules</i> , 2011 , 44, 7296-7306	5.5	187
452	Intrinsically Microporous Soluble Polyimides Incorporating Tröger's Base for Membrane Gas Separation. <i>Macromolecules</i> , 2014 , 47, 3254-3262	5.5	185
451	Tissue-engineered vascular grafts composed of marine collagen and PLGA fibers using pulsatile perfusion bioreactors. <i>Biomaterials</i> , 2007 , 28, 1115-22	15.6	185

450	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	2.9	183
449	Sustainable wastewater treatment and recycling in membrane manufacturing. <i>Green Chemistry</i> , 2015 , 17, 5196-5205	10	178
448	Mechano-active tissue engineering of vascular smooth muscle using pulsatile perfusion bioreactors and elastic PLCL scaffolds. <i>Biomaterials</i> , 2005 , 26, 1405-11	15.6	176
447	Interpenetrating polymer network hydrogels based on poly(ethylene glycol) macromer and chitosan. <i>Carbohydrate Polymers</i> , 2000 , 41, 197-205	10.3	175
446	pH/temperature-responsive semi-IPN hydrogels composed of alginate and poly(N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1128-1139	2.9	169
445	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, 631-9		169
444	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	3.9	166
443	Study of gelatin-containing artificial skin V: fabrication of gelatin scaffolds using a salt-leaching method. <i>Biomaterials</i> , 2005 , 26, 1961-8	15.6	165
442	Poly(vinylidene fluoride) membrane preparation with an environmental diluent via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2013 , 444, 223-236	9.6	157
441	Pervaporation and properties of chitosan-poly(acrylic acid) complex membranes. <i>Journal of Membrane Science</i> , 1997 , 135, 161-171	9.6	157
440	A Thermosensitive Poly(organophosphazene) Gel. <i>Macromolecules</i> , 2002 , 35, 3876-3879	5.5	157
439	Preparation and surface characterization of functional group-grafted and heparin-immobilized polyurethanes by plasma glow discharge. <i>Biomaterials</i> , 1996 , 17, 841-7	15.6	155
438	Development of electroactive and elastic nanofibers that contain polyaniline and poly(L-lactide-co-epsilon-caprolactone) for the control of cell adhesion. <i>Macromolecular Bioscience</i> , 2008 , 8, 627-37	5.5	154
437	Surface modification of polypropylene membranes by E-ray induced graft copolymerization and their solute permeation characteristics. <i>Journal of Membrane Science</i> , 2001 , 190, 215-226	9.6	153
436	Phenyltrimethylammonium Functionalized Polysulfone Anion Exchange Membranes□	5.5	152
435	Synthesis and Characterization of Poly(L-lactide)□Poly(E-caprolactone) Multiblock Copolymers. <i>Macromolecules</i> , 2003 , 36, 5585-5592	5.5	151
434	Dual thermo- and pH-sensitive poly(N-isopropylacrylamide-co-acrylic acid) hydrogels with rapid response behaviors. <i>Polymer</i> , 2007 , 48, 1718-1728	3.9	150
433	Preparation of amphiphilic chitosan and their antimicrobial activities. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 1713-1719	2.9	150

432	Properties and swelling characteristics of cross-linked poly(vinyl alcohol)/chitosan blend membrane. <i>Journal of Applied Polymer Science</i> , 1992 , 45, 1711-1717	2.9	148
431	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	5.5	144
430	Manufacture of elastic biodegradable PLCL scaffolds for mechano-active vascular tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 645-60	3.5	144
429	Mechanically robust thermally rearranged (TR) polymer membranes with spirobisindane for gas separation. <i>Journal of Membrane Science</i> , 2013 , 434, 137-147	9.6	143
428	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, 1303-9	6.9	142
427	Enhancement of proton transport by nanochannels in comb-shaped copoly(arylene ether sulfone)s. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9158-61	16.4	140
426	Poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide)/poly(epsilon-caprolactone) (PCL) amphiphilic block copolymeric nanospheres. II. Thermo-responsive drug release behaviors. <i>Journal of Controlled Release</i> , 2000 , 65, 345-58	11.7	140
425	Thermally Rearranged (TR) Poly(etherBenzoxazole) Membranes for Gas Separation. <i>Macromolecules</i> , 2011 , 44, 1156-1165	5.5	132
424	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	9.6	132
423	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	2.9	129
422	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, 228-35	9.3	128
421	Bio-artificial skin composed of gelatin and (1-->3), (1-->6)-beta-glucan. <i>Biomaterials</i> , 2003 , 24, 2503-11	15.6	126
420	Polyimides containing aliphatic/alicyclic segments in the main chains. <i>Progress in Polymer Science</i> , 2019 , 92, 35-88	29.6	123
419	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, 147-53	12.3	122
418	A new class of highly-conducting polymer electrolyte membranes: Aromatic ABA triblock copolymers. <i>Energy and Environmental Science</i> , 2012 , 5, 5346-5355	35.4	121
417	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	9.6	121
416	Response of MG63 osteoblast-like cells onto polycarbonate membrane surfaces with different micropore sizes. <i>Biomaterials</i> , 2004 , 25, 4699-707	15.6	118
415	Highly gas permeable and microporous polybenzimidazole membrane by thermal rearrangement. <i>Journal of Membrane Science</i> , 2010 , 357, 143-151	9.6	117

414	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	2.9	115
413	Tuning microcavities in thermally rearranged polymer membranes for CO ₂ capture. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4365-73	3.6	114
412	Highly permeable and selective poly(benzoxazole-co-imide) membranes for gas separation. <i>Journal of Membrane Science</i> , 2010 , 350, 301-309	9.6	112
411	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17512-17527	16.4	111
410	In vitro osteogenic differentiation of human mesenchymal stem cells and in vivo bone formation in composite nanofiber meshes. <i>Tissue Engineering - Part A</i> , 2008 , 14, 2105-19	3.9	110
409	Thermally rearranged (TR) polybenzoxazole hollow fiber membranes for CO ₂ capture. <i>Journal of Membrane Science</i> , 2012 , 403-404, 169-178	9.6	109
408	Gas separation properties of polysiloxane/polyether mixed soft segment urethane urea membranes. <i>Journal of Membrane Science</i> , 2002 , 204, 257-269	9.6	108
407	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	9.6	106
406	Preparation and characteristics of chitin and poly(vinyl alcohol) blend. <i>Polymer</i> , 1996 , 37, 5897-5905	3.9	105
405	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	4.5	104
404	High-strength, soluble polyimide membranes incorporating Tröger's Base for gas separation. <i>Journal of Membrane Science</i> , 2016 , 504, 55-65	9.6	103
403	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	9.6	100
402	Microporous PVDF membranes via thermally induced phase separation (TIPS) and stretching methods. <i>Journal of Membrane Science</i> , 2016 , 509, 94-104	9.6	99
401	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	9.6	98
400	Polymer Electrolyte Membranes Derived from New Sulfone Monomers with Pendent Sulfonic Acid Groups. <i>Macromolecules</i> , 2010 , 43, 9810-9820	5.5	97
399	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	9.6	97
398	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	2.9	97
397	In vitro blood compatibility of functional group-grafted and heparin-immobilized polyurethanes prepared by plasma glow discharge. <i>Biomaterials</i> , 1997 , 18, 1099-107	15.6	95

396	Nanofibrous poly(lactic acid)/hydroxyapatite composite scaffolds for guided tissue regeneration. <i>Macromolecular Bioscience</i> , 2008 , 8, 328-38	5.5	94
395	Toxic characteristics of methoxy poly(ethylene glycol)/poly(epsilon-caprolactone) nanospheres; in vitro and in vivo studies in the normal mice. <i>Biomaterials</i> , 2003 , 24, 55-63	15.6	94
394	Preparation and characterization of biodegradable nanospheres composed of methoxy poly(ethylene glycol) and DL-lactide block copolymer as novel drug carriers. <i>Journal of Controlled Release</i> , 1998 , 56, 197-208	11.7	93
393	Sulfonated poly(arylene ether sulfone)/silica nanocomposite membrane for direct methanol fuel cell (DMFC). <i>Journal of Membrane Science</i> , 2007 , 303, 258-266	9.6	93
392	Durable Sulfonated Poly(arylene sulfide sulfone nitrile)s Containing Naphthalene Units for Direct Methanol Fuel Cells (DMFCs). <i>Macromolecules</i> , 2013 , 46, 3452-3460	5.5	92
391	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes for Gas Separation. <i>Macromolecules</i> , 2013 , 46, 8179-8189	5.5	92
390	Pervaporation of ionically surface crosslinked chitosan composite membranes for water-alcohol mixtures. <i>Journal of Membrane Science</i> , 1997 , 133, 103-110	9.6	92
389	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	2.9	90
388	Densely Sulfophenylated Segmented Copoly(arylene ether sulfone) Proton Exchange Membranes. <i>Macromolecules</i> , 2011 , 44, 4901-4910	5.5	89
387	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	5.5	87
386	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 ^{1.9}		87
385	Poly(arylene ether sulfone) proton exchange membranes with flexible acid side chains. <i>Journal of Membrane Science</i> , 2012 , 405-406, 68-78	9.6	86
384	Preparation and characteristics of hybrid scaffolds composed of beta-chitin and collagen. <i>Biomaterials</i> , 2004 , 25, 2309-17	15.6	86
383	Poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide) (Pluronic)/poly(epsilon-caprolactone) (PCL) amphiphilic block copolymeric nanospheres. I. Preparation and characterization. <i>Journal of Controlled Release</i> , 1999 , 62, 381-92	11.7	86
382	Imide-siloxane block copolymer/silica hybrid membranes: preparation, characterization and gas separation properties. <i>Journal of Membrane Science</i> , 2003 , 220, 59-73	9.6	85
381	Synthesis and properties of diethylaminoethyl chitosan. <i>Polymer</i> , 1993 , 34, 1952-1957	3.9	85
380	Anion exchange polyelectrolytes for membranes and ionomers. <i>Progress in Polymer Science</i> , 2021 , 113, 101345	29.6	84
379	Preparation and characterization of carbon molecular sieve membranes derived from BTDA/DPA polyimide and their gas separation properties. <i>Journal of Membrane Science</i> , 2005 , 255, 265-273	9.6	83

378	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	9.6	82
377	Synthesis and properties of semi-interpenetrating polymer networks composed of chitin and poly(ethylene glycol) macromer. <i>Polymer</i> , 1995 , 36, 4497-4501	3.9	82
376	Polybenzimidazole membranes modified with polyelectrolyte-functionalized multiwalled carbon nanotubes for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7480		81
375	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	9.6	80
374	Morphological transformation during cross-linking of a highly sulfonated poly(phenylene sulfide nitrile) random copolymer. <i>Energy and Environmental Science</i> , 2012 , 5, 9795	35.4	80
373	Optimal catalyst layer structure of polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9876-9885	6.7	79
372	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	9.6	79
371	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	9.6	78
370	Bio-Inspired Robust Membranes Nanoengineered from Interpenetrating Polymer Networks of Polybenzimidazole/Polydopamine. <i>ACS Nano</i> , 2019 , 13, 125-133	16.7	78
369	Indomethacin release behaviors from pH and thermoresponsive poly(vinyl alcohol) and poly(acrylic acid) IPN hydrogels for site-specific drug delivery. <i>Journal of Applied Polymer Science</i> , 1997 , 65, 685-693	2.9	75
368	Gas permeation properties of hydroxyl-group containing polyimide membranes. <i>Macromolecular Research</i> , 2008 , 16, 555-560	1.9	75
367	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	9.6	75
366	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes Prepared from ortho-Hydroxycopolyimides Containing Pendant Carboxyl Groups and Gas Separation Properties. <i>Macromolecules</i> , 2015 , 48, 2603-2613	5.5	72
365	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	9.6	71
364	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	9.6	71
363	Phase separation and water channel formation in sulfonated block copolyimide. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12036-45	3.4	71
362	Chiral separation of phenylalanine in ultrafiltration through DNA-immobilized chitosan membranes. <i>Journal of Membrane Science</i> , 2006 , 280, 116-123	9.6	71
361	Fabrication and Characterization of Nanoporous Carbon/Silica Membranes. <i>Advanced Materials</i> , 2005 , 17, 477-483	24	71

360	Preparation of pH/temperature responsive polymer membrane by plasma polymerization and its riboflavin permeation. <i>Polymer</i> , 1997 , 38, 1227-1232	3.9	70
359	The relationship between the chemical structure and thermal conversion temperatures of thermally rearranged (TR) polymers. <i>Polymer</i> , 2012 , 53, 2783-2791	3.9	68
358	Polyethylene-based radiation grafted anion-exchange membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2013 , 441, 148-157	9.6	68
357	Synthesis of highly fluorinated poly(arylene ether)s copolymers for proton exchange membrane materials?. <i>Journal of Membrane Science</i> , 2006 , 281, 111-120	9.6	68
356	Preparation, characterization and properties of β -chitin and N-acetylated β -chitin 1996 , 34, 2367-2374		68
355	Thermal characteristics of chitin and hydroxypropyl chitin. <i>Polymer</i> , 1994 , 35, 3212-3216	3.9	68
354	Electrospun gelatin/poly(L-lactide-co-epsilon-caprolactone) nanofibers for mechanically functional tissue-engineering scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 339-57	3.5	67
353	Soluble, microporous, Tröger's Base copolyimides with tunable membrane performance for gas separation. <i>Chemical Communications</i> , 2016 , 52, 3817-20	5.8	66
352	High performance polymer membranes for CO ₂ separation. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 238-244	5.4	66
351	Design and operation considerations for wastewater treatment using a flat submerged membrane bioreactor. <i>Process Biochemistry</i> , 2002 , 38, 279-285	4.8	66
350	Electrical/pH-sensitive swelling behavior of polyelectrolyte hydrogels prepared with hyaluronic acid/ β -poly(vinyl alcohol) interpenetrating polymer networks. <i>Reactive and Functional Polymers</i> , 2003 , 55, 291-298	4.6	66
349	Amphiphilic diblock copolymeric nanospheres composed of methoxy poly(ethylene glycol) and glycolide: properties, cytotoxicity and drug release behaviour. <i>Biomaterials</i> , 1999 , 20, 1033-42	15.6	66
348	Permeation of solutes through interpenetrating polymer network hydrogels composed of poly(vinyl alcohol) and poly(acrylic acid). <i>Journal of Applied Polymer Science</i> , 1998 , 69, 479-486	2.9	65
347	Annealing effect of sulfonated polysulfone ionomer membranes on proton conductivity and methanol transport. <i>Journal of Membrane Science</i> , 2005 , 247, 103-110	9.6	65
346	Pervaporation separation of water/isopropanol mixture using carboxymethylated poly(vinyl alcohol) composite membranes. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 241-249	2.9	65
345	Thermally rearranged polybenzoxazoles membranes with biphenyl moieties: Monomer isomeric effect. <i>Journal of Membrane Science</i> , 2014 , 450, 369-379	9.6	64
344	A novel thermoresponsive hydrogel with ion-recognition property through supramolecular host-guest complexation. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1112-8	3.4	64
343	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. <i>Macromolecules</i> , 2015 , 48, 5286-5299	5.5	63

342	Effect of Isomerism on Molecular Packing and Gas Transport Properties of Poly(benzoxazole-co-imide)s. <i>Macromolecules</i> , 2014 , 47, 7947-7957	5.5	63
341	Sulfonated Poly(arylene sulfide sulfone nitrile) Multiblock Copolymers with Ordered Morphology for Proton Exchange Membranes. <i>Macromolecules</i> , 2013 , 46, 7797-7804	5.5	62
340	Proton-conducting membranes from poly(ether sulfone)s grafted with sulfoalkylamine. <i>Journal of Membrane Science</i> , 2013 , 427, 443-450	9.6	62
339	Pervaporation of water/isopropanol mixtures through polyaniline membranes doped with poly(acrylic acid). <i>Journal of Membrane Science</i> , 1999 , 159, 41-46	9.6	62
338	Preparation of surface-modified stimuli-responsive polymeric membranes by plasma and ultraviolet grafting methods and their riboflavin permeation. <i>Polymer</i> , 1995 , 36, 81-85	3.9	62
337	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	9.6	61
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