

# Dukjoon Kim

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/568087/dukjoon-kim-publications-by-year.pdf>

**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

201 papers	3,992 citations	33 h-index	48 g-index
216 ext. papers	4,520 ext. citations	5.8 avg, IF	6.23 L-index

#	Paper	IF	Citations
201	A flexible, robust, and high ion-conducting solid electrolyte membranes enabled by interpenetrated network structure for all-solid-state lithium metal battery. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 68, 603-611	12	2
200	Facile Li-ion conduction and synergistic electrochemical performance via dual functionalization of flexible solid electrolyte for Li metal batteries. <i>Journal of Membrane Science</i> , <b>2022</b> , 648, 120349	9.6	1
199	High voltage stable solid-state lithium battery based on the nano-conductor imbedded flexible hybrid solid electrolyte with hyper-ion conductivity and thermal, mechanical, and adhesive stability. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135092	14.7	2
198	Surface hydrophilization toward the proton conductive porous PTFE substrate impregnating SPEEK for polymer electrolyte membranes. <i>Progress in Organic Coatings</i> , <b>2022</b> , 163, 106643	4.8	1
197	Simultaneous improvement of proton conductivity and chemical stability of Nafion membranes via embedment of surface-modified ceria nanoparticles in membrane surface. <i>Journal of Membrane Science</i> , <b>2022</b> , 642, 119990	9.6	4
196	Acceleration of selective lithium ion transport of PAES-g-2PEG self-assembled flexible solid-state electrolytes for lithium secondary batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 47, 394-407	19.4	2
195	Accelerated ion conduction by co-grafting of poly(ethylene glycol) and nitrile-terminated ionic liquid on poly(arylene ether sulfone) for solid electrolyte membranes for lithium ion battery. <i>Journal of Power Sources</i> , <b>2022</b> , 529, 231255	8.9	3
194	A Facile and Sustainable Enhancement of Anti-Oxidation Stability of Nafion Membrane. <i>Membranes</i> , <b>2022</b> , 12, 521	3.8	0
193	Enhanced Ion Cluster Size of Sulfonated Poly (Arylene Ether Sulfone) for Proton Exchange Membrane Fuel Cell Application. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
192	Porous PTFE reinforced SPEEK proton exchange membranes for enhanced mechanical, dimensional, and electrochemical stability. <i>Polymer</i> , <b>2021</b> , 218, 123506	3.9	5
191	Simultaneous establishment of high conductivity and mechanical stability via pore-filling of porous PTFE substrate with poly(ethylene glycol) and ionic liquid for lithium secondary battery. <i>Journal of Membrane Science</i> , <b>2021</b> , 624, 119029	9.6	1
190	Enhancement of electrochemical performance and anti-oxidation stability by protection of lithium metal anode with Li <sup>+</sup> conductive poly(arylene ether sulfone)-g-poly(ethylene glycol) layer for lithium metal battery. <i>Journal of Power Sources</i> , <b>2021</b> , 495, 229744	8.9	3
189	Ultrathin nickel oxide nanosheets: Highly exposed Ni <sup>3+</sup> -doped high-energy {110} facets. <i>Materials Research Bulletin</i> , <b>2021</b> , 139, 111251	5.1	1
188	Tough and Flexible, Super Ion-Conductive Electrolyte Membranes for Lithium-Based Secondary Battery Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008586	15.6	13
187	Bone targeting nano-aggregates prepared from self-assembled polyaspartamide graft copolymers for pH sensitive DOX delivery. <i>Biomaterials Science</i> , <b>2021</b> , 9, 1660-1667	7.4	2
186	Solid electrolyte membranes prepared from poly(arylene ether sulfone)-g-poly(ethylene glycol) with various functional end groups for lithium-ion battery. <i>Journal of Membrane Science</i> , <b>2021</b> , 621, 119023	9.6	7
185	A rapid hydrophilization of porous poly(tetrafluoroethylene) film via co-deposition of phenol derivatives and polyethyleneimine. <i>Progress in Organic Coatings</i> , <b>2021</b> , 157, 106077	4.8	0

184	Chemically sustainable fuel cells via layer-by-layer fabrication of sulfonated poly(arylene ether sulfone) membranes containing cerium oxide nanoparticles. <i>Journal of Membrane Science</i> , <b>2021</b> , 634, 119430	9.6	12
183	A straightforward fabrication of solid-state lithium secondary batteries based on multi-functional poly(arylene ether sulfone)-g-poly(ethylene glycol) material. <i>Journal of Power Sources</i> , <b>2021</b> , 507, 230288	8.9	1
182	Transparent poly(ether sulfone) nanocomposite film with low thermal expansion coefficient for flexible display substrates. <i>Composites Part B: Engineering</i> , <b>2021</b> , 224, 109164	10	2
181	Poly(arylene ether ketone)-based bipolar membranes for acid/alkaline water electrolysis applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5485-5496	13	4
180	Nanocomposite Films: Optically Transparent and Low-CTE Polyethersulfone-Based Nanocomposite Films for Flexible Display (Adv. Mater. Interfaces 24/2020). <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2070134	14.6	1
179	Enhancement of alkaline conductivity and chemical stability of quaternized poly(2,6-dimethyl-1,4-phenylene oxide) alkaline electrolyte membrane by mild temperature benzyl bromination.. <i>RSC Advances</i> , <b>2020</b> , 10, 36704-36712	3.7	1
178	Optically Transparent and Low-CTE Polyethersulfone-Based Nanocomposite Films for Flexible Display. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2001422	4.6	6
177	Integration of iron oxide nanoparticles and polyaspartamide biopolymer for MRI image contrast enhancement and an efficient drug-delivery system in cancer therapy. <i>Nanotechnology</i> , <b>2020</b> , 31, 335712	12.4	5
176	Nanometer-Scale Water Dynamics in Nafion Polymer Electrolyte Membranes: Influence of Molecular Hydrophobicity and Water Content Revisited. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1013-1018	6.6	1
175	Ultra-low vanadium ion permeable electrolyte membrane for vanadium redox flow battery by pore filling of PTFE substrate. <i>Energy Storage Materials</i> , <b>2020</b> , 31, 105-114	19.4	16
174	Unusual Photoactive Water Oxidation Activity of Pt/PtOx Cocatalyst Decorated Crystalline $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Nanostructures: Exposed Facets Dependent Reactivity. <i>ChemCatChem</i> , <b>2020</b> , 12, 2315-2323	5.2	3
173	Intercalated Poly (2-Acrylamido-2-methyl-1-propanesulfonic Acid) into Sulfonated Poly (1,4-Phenylene ether-ether-sulfone) Based Proton Exchange Membrane: Improved Ionic Conductivity. <i>Molecules</i> , <b>2020</b> , 26,	4.8	1
172	Encapsulation of superparamagnetic iron oxide nanoparticles with polyaspartamide biopolymer for hyperthermia therapy. <i>European Polymer Journal</i> , <b>2020</b> , 122, 109396	5.2	5
171	Anion Exchange Membranes Prepared from Quaternized Polyepichlorohydrin Cross-Linked with 1-(3-aminopropyl)imidazole Grafted Poly(arylene ether ketone) for Enhancement of Toughness and Conductivity. <i>Membranes</i> , <b>2020</b> , 10,	3.8	6
170	Thermal, mechanical, and electrochemical stability enhancement of Al <sub>2</sub> O <sub>3</sub> coated polypropylene/polyethylene/polypropylene separator via poly(vinylidene fluoride)-poly(ethoxylated pentaerythritol tetraacrylate) semi-interpenetrating network binder. <i>Journal of Membrane Science</i> , <b>2020</b> , 612, 118481	9.6	14
169	Enhancement of oxidative stability of PEM fuel cell by introduction of HO $\cdot$ radical scavenger in Nafion ionomer. <i>Journal of Membrane Science</i> , <b>2020</b> , 613, 118517	9.6	17
168	Synergistic Effect of 2-Acrylamido-2-methyl-1-propanesulfonic Acid on the Enhanced Conductivity for Fuel Cell at Low Temperature. <i>Membranes</i> , <b>2020</b> , 10,	3.8	3
167	Advantageous of Hybrid Fuel Cell Operation under Self-Humidification for Energy Efficient Bipolar Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16493-16500	8.3	20

166	Dual sulfonated poly(arylene ether ketone) membrane grafted with 15-crown-5-ether for enhanced proton conductivity and anti-oxidation stability. <i>Molecular Systems Design and Engineering</i> , <b>2019</b> , 4, 901-911	4.6	8
165	Solid Electrolyte Membrane Prepared from Poly(arylene ether sulfone)-g- Poly(ethylene glycol) for Lithium Secondary Battery. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2585-2595	6.1	16
164	C2 and N3 substituted imidazolium functionalized poly(arylene ether ketone) anion exchange membrane for water electrolysis with improved chemical stability. <i>Journal of Membrane Science</i> , <b>2019</b> , 581, 139-149	9.6	36
163	Solid electrolyte membranes prepared from poly(arylene ether ketone)-g-polyimidazolium copolymer intergrated with ionic liquid for lithium secondary battery. <i>Journal of Power Sources</i> , <b>2019</b> , 422, 57-64	8.9	12
162	Folate-PEG/Hyd-curcumin/C18-g-PSI micelles for site specific delivery of curcumin to colon cancer cells via Wnt/ $\beta$ -catenin signaling pathway. <i>Materials Science and Engineering C</i> , <b>2019</b> , 101, 464-471	8.3	21
161	Toughened polymer electrolyte membranes composed of sulfonated poly(arylene ether ketone) block copolymer and organosiloxane network for fuel cell. <i>Solid State Ionics</i> , <b>2019</b> , 335, 23-31	3.3	8
160	Pendant dual-sulfonated poly(arylene ether ketone) multi-block copolymer membranes for enhanced proton conductivity at reduced water swelling. <i>Journal of Membrane Science</i> , <b>2019</b> , 578, 103-110	9.6	14
159	Free-Standing Ion-Conductive Gels Based on Polymerizable Imidazolium Ionic Liquids. <i>Langmuir</i> , <b>2019</b> , 35, 16624-16629	4	5
158	Chemical stability enhancement of crown ether grafted sulfonated poly(arylene ether ketone) fuel cell membrane by cerium ion fixation. <i>Journal of Polymer Science Part A</i> , <b>2019</b> , 57, 101-109	2.5	14
157	Binder Effect on Fuel Cell Performance and Interfacial Stability of Membrane Electrode Assembly Fabricated with Sulfonated Poly(ether ether ketone) Membrane. <i>Macromolecular Research</i> , <b>2019</b> , 27, 175-181	1.9	7
156	pH-triggered intracellular release of doxorubicin from polyaspartamide-encapsulated mesoporous silica nanoparticles. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 166-172	2.8	6
155	Anion exchange membrane prepared from imidazolium grafted poly(arylene ether ketone) with enhanced durability for vanadium redox flow battery. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 71, 361-368	6.3	15
154	Chemically modified poly(arylene ether ketone)s with pendant imidazolium groups: Anion exchange membranes for alkaline fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 4517-4527	6.7	16
153	Hollow doughnut shaped mesoporous silica nanoparticles for reduction of the thermal expansion coefficient of poly(ether sulfone) films. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 5045-5051	3.6	2
152	Reductant-Free Synthesis of Silver Nanoparticles by Functionalized Hollow Doughnut Mesoporous Silica Nanoparticles for Preparation of Catalytic Nanoreactor. <i>ChemistrySelect</i> , <b>2018</b> , 3, 1772-1780	1.8	5
151	Cyclic ammonium grafted poly (arylene ether ketone) hydroxide ion exchange membranes for alkaline water electrolysis with high chemical stability and cell efficiency. <i>Electrochimica Acta</i> , <b>2018</b> , 271, 150-157	6.7	22
150	Synthesis of Hollow Doughnut Shape Mesoporous Silica Nanoparticle: A Case of Self-Assembly Composite Templates. <i>Langmuir</i> , <b>2018</b> , 34, 3901-3908	4	8
149	Alkaline anion exchange membrane from poly(arylene ether ketone)-g-polyimidazolium copolymer for enhanced hydroxide ion conductivity and thermal, mechanical, and hydrolytic stability. <i>Electrochimica Acta</i> , <b>2018</b> , 290, 544-555	6.7	17

148	Chemical stability enhancement of Nafion membrane by impregnation of a novel organic HOH radical scavenger, 3,4-dihydroxy-cinnamic acid. <i>Journal of Membrane Science</i> , <b>2018</b> , 566, 1-7	9.6	22
147	Antioxidant proton conductive toughening agent for the hydrocarbon based proton exchange polymer membrane for enhanced cell performance and durability in fuel cell. <i>Journal of Power Sources</i> , <b>2018</b> , 393, 11-18	8.9	14
146	Poly(arylene ether ketone) proton exchange membranes grafted with long aliphatic pendant sulfonated groups for vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2261-2270	7.0	58
145	Poly(arylene ether ketone) with pendant pyridinium groups for alkaline fuel cell membranes. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 12496-12506	6.7	28
144	Highly robust magnetically recoverable Ag/Fe <sub>2</sub> O <sub>3</sub> nanocatalyst for chemoselective hydrogenation of nitroarenes in water. <i>Applied Catalysis A: General</i> , <b>2017</b> , 538, 148-156	5.1	38
143	Pore size and concentration effect of mesoporous silica nanoparticles on the coefficient of thermal expansion and optical transparency of poly(ether sulfone) films. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1937-1944	3.6	20
142	Smart Design of Self-Assembled Mesoporous FeOOH Nanoparticles: High-Surface-Area Sorbent for Hg <sup>2+</sup> from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1272-1279	8.3	23
141	Polyaspartamide-based graft copolymers encapsulating iron oxide nanoparticles for imaging and fluorescence labelling of immune cells. <i>Biomaterials Science</i> , <b>2017</b> , 5, 305-312	7.4	14
140	Pore-filling polymer electrolyte membrane based on poly (arylene ether ketone) for enhanced dimensional stability and reduced methanol permeability. <i>Journal of Membrane Science</i> , <b>2017</b> , 543, 133-142	8.6	23
139	Bioadhesive Nanoaggregates Based on Polyaspartamide-g-C18/DOPA for Wound Healing. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2402-2409	6.9	19
138	The effect of cetyltrimethylammonium bromide on the coefficient of thermal expansion and optical transmittance of poly(ether sulfone) film. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 2536-2540	2.8	3
137	Pendant dual sulfonated poly(arylene ether ketone) proton exchange membranes for fuel cell application. <i>Journal of Power Sources</i> , <b>2016</b> , 328, 355-363	8.9	48
136	Ceria-Containing Ordered Mesoporous Silica: Synthesis, Properties, and Applications. <i>ChemCatChem</i> , <b>2016</b> , 8, 285-303	5.2	19
135	Tailor-made pore controlled poly (arylene ether ketone) membranes as a lithium-ion battery separator. <i>Journal of Power Sources</i> , <b>2016</b> , 304, 301-310	8.9	32
134	Morphology evolution of single-crystalline hematite nanocrystals: magnetically recoverable nanocatalysts for enhanced facet-driven photoredox activity. <i>Nanoscale</i> , <b>2016</b> , 8, 365-77	7.7	83
133	Porous proton exchange membranes based on sulfonated poly (arylene ether ketone)/polylactide block copolymers for enhanced proton conductivity and dimensional stability. <i>Solid State Ionics</i> , <b>2016</b> , 290, 62-70	3.3	15
132	Anion-exchange membranes based on poly(arylene ether ketone) with pendant quaternary ammonium groups for alkaline fuel cell application. <i>Journal of Membrane Science</i> , <b>2016</b> , 511, 143-150	9.6	37
131	Proton conductivity improvement of polymer electrolyte membrane using nano-scale explosion of water in the membrane. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 782, 32-35	4.1	2

130	Self-assembled nanoaggregates based on polyaspartamide graft copolymers for pH-controlled release of doxorubicin. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2978-2985	7.3	13
129	Ionic liquid impregnated lithium ion conductive solid electrolytes based on poly(acetyl ethylene glycol methacrylate-co-methyl acrylate). <i>Solid State Ionics</i> , <b>2015</b> , 279, 18-24	3.3	8
128	Selective sorption behavior of metal(II) ion-imprinted polymethacrylate microspheres synthesized via precipitation polymerization method. <i>Korean Journal of Chemical Engineering</i> , <b>2015</b> , 32, 967-973	2.8	7
127	Gold-installed biostable nanocomplexes for tumor-targeted siRNA delivery in vivo. <i>Chemical Communications</i> , <b>2015</b> , 51, 16656-9	5.8	12
126	Properties and morphology study of proton exchange membranes fabricated from the pendant-sulfonated poly(arylene ether ketone) copolymers composed of hydrophobic and hydrophilic multi-blocks for fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 16443-16456	6.7	22
125	Proton exchange membranes based on sulfonated poly(arylene ether ketone) containing triazole group for enhanced proton conductivity. <i>Journal of Membrane Science</i> , <b>2015</b> , 496, 13-20	9.6	34
124	Intracellular uptake and pH-dependent release of doxorubicin from the self-assembled micelles based on amphiphilic polyaspartamide graft copolymers. <i>Biomacromolecules</i> , <b>2015</b> , 16, 136-44	6.9	29
123	Catalytic activity of CeIVO <sub>2</sub> /Ce <sub>2</sub> III <sub>2</sub> O <sub>3</sub> -silica mesoporous composite materials for oxidation and esterification reactions. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 1116-1125	14.7	17
122	Synthesis and properties of cross-linked poly(arylene ether ketone) electrolyte membranes containing hygroscopic proton conductors. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 8160-8171	6.7	11
121	Comparison of proton conducting polymer electrolyte membranes prepared from multi-block and random copolymers based on poly(arylene ether ketone). <i>Journal of Power Sources</i> , <b>2015</b> , 281, 146-157	8.9	19
120	Controlled Synthesis of a Hexagonal-Shaped NiO Nanocatalyst with Highly Reactive Facets {1 1 0} and Its Catalytic Activity. <i>ChemCatChem</i> , <b>2015</b> , 7, 791-798	5.2	23
119	Cross-linked poly(arylene ether ketone) proton exchange membranes sulfonated on polymer backbone, pendant, and cross-linked sites for enhanced proton conductivity. <i>Solid State Ionics</i> , <b>2015</b> , 270, 66-72	3.3	17
118	Synthesis of ordered mesoporous silica/ceria-silica composites and their high catalytic performance for solvent-free oxidation of benzyl alcohol at room temperature. <i>RSC Advances</i> , <b>2014</b> , 4, 9213-9222	3.7	31
117	Mn-Doped Ordered Mesoporous Ceria-Silica Composites and Their Catalytic Properties toward Biofuel Production. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 15892-15901	3.8	23
116	Synthesis and Selective Sorption Behavior of Pt(IV) Ion-Imprinted Polymer Particles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 13340-13347	3.9	11
115	Fluorescent dye labeled iron oxide/silica core/shell nanoparticle as a multimodal imaging probe. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 3371-8	4.5	32
114	Effect of cerium/18-crown-6-ether coordination complex OH quencher on the properties of sulfonated poly(ether ether ketone) fuel cell electrolyte membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 469, 238-244	9.6	35
113	Sulfonated mesoporous benzene-silica-embedded sulfonated poly(ether ether ketone) membranes for enhanced proton conduction and anti-dehydration. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 1063-1070	6.7	26



112	Pb(II) ion-imprinted micro-porous particles for the selective separation of Pb(II) ions. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 8578-83	1.3	4
111	Zn <sup>2+</sup> -imprinted porous polymer beads: Synthesis, structure, and selective adsorption behavior for template ion. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 821-827	4.6	17
110	Synthesis and selective adsorption behavior of Pd(II)-imprinted porous polymer particles. <i>Chemical Engineering Journal</i> , <b>2013</b> , 232, 503-509	14.7	39
109	Synthesis and selective recognition property of Ni <sup>2+</sup> -imprinted microporous polymer beads. <i>Polymers for Advanced Technologies</i> , <b>2013</b> , 24, 747-751	3.2	8
108	Surfactant-assisted synthesis of mesoporous silica/ceria-silica composites with high cerium content under basic conditions. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12595	13	24
107	Cross-linked poly(arylene ether ketone) membranes sulfonated on both backbone and pendant position for high proton conduction and low water uptake. <i>Journal of Power Sources</i> , <b>2013</b> , 222, 103-111	8.9	30
106	Proton conducting electrolyte membranes based on the pendant-sulfonated poly(arylene ether ketone)/polyorganosiloxane interpenetrating polymer networks. <i>Journal of Membrane Science</i> , <b>2013</b> , 430, 37-43	9.6	9
105	Proton-conducting electrolyte membranes based on organosiloxane network/sulfonated poly(ether ether ketone) interpenetrating polymer networks embedding sulfonated mesoporous benzene-silica. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 850-858	8.9	12
104	Preparation and swelling properties of click-hydrogel from polyaspartamide derivatives using tri-arm PEG and PEG-co-poly(amino urethane) azides as crosslinking agents. <i>Polymer</i> , <b>2013</b> , 54, 1341-1349	3.9	19
103	Electro-osmotic drag effect on the methanol permeation for sulfonated poly(ether ether ketone) and nafion 117 membranes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 7529-34	1.3	6
102	Paclitaxel loaded nano-aggregates based on pH sensitive polyaspartamide amphiphilic graft copolymers. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 424, 26-32	6.5	17
101	Cross-linked aryl-sulfonated poly(arylene ether ketone) proton exchange membranes for fuel cell. <i>Electrochimica Acta</i> , <b>2012</b> , 63, 238-244	6.7	27
100	Pendant-sulfonated poly(arylene ether ketone) (PAEK) membranes cross-linked with a proton conducting reagent for fuel cells. <i>Journal of Membrane Science</i> , <b>2012</b> , 405-406, 176-184	9.6	31
99	Benzene-Silica with Hexagonal and Cubic Ordered Mesostructures Synthesized in the Presence of Block Copolymers and Weak Acid Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 16023-16029	3.8	11
98	Cross-linked poly(arylene ether ketone) electrolyte membranes with enhanced proton conduction for fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 19007-19016	6.7	14
97	Cross-linked poly(arylene ether ketone) membrane bearing pendant sulfanilic acid for high proton conductivity and low water uptake. <i>Solid State Ionics</i> , <b>2012</b> , 224, 58-63	3.3	3
96	Polysuccinimide graft copolymer nano aggregates encapsulating magnetites for imaging probe. <i>Macromolecular Research</i> , <b>2012</b> , 20, 259-265	1.9	6
95	pH-sensitive amphiphilic biodegradable graft co-polymer aggregates based on polyaspartamide for intracellular delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2012</b> , 23, 1255-69	3.5	2

94	pH-Sensitive micelles with cross-linked cores formed from polyaspartamide derivatives for drug delivery. <i>Langmuir</i> , <b>2011</b> , 27, 12090-7	4	49
93	Sulfonated PEEK/cubic (Im3m) mesoporous benzene-silica composite membranes operable at low humidity. <i>Solid State Ionics</i> , <b>2011</b> , 203, 1-8	3.3	14
92	Semi-interpenetrating polymer network electrolyte membranes composed of sulfonated poly(ether ether ketone) and organosiloxane-based hybrid network. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 10584-10590	8.9	19
91	Synthesis and self-assembly behavior of novel polyaspartamide derivatives for anti-tumor drug delivery. <i>Colloid and Polymer Science</i> , <b>2011</b> , 289, 63-71	2.4	28
90	In Situ gelling and drug release behavior from novel temperature-sensitive polyaspartamides. <i>Macromolecular Research</i> , <b>2011</b> , 19, 515-518	1.9	16
89	Synthesis and properties of all solid polymer electrolytes based on poly(vinyl acetate-co-acetyl ethylene oxide acrylate). <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 2130-2135	3.2	2
88	Effect of solvent/monomer feed ratio on the structure and adsorption properties of Cu <sup>2+</sup> -imprinted microporous polymer particles. <i>Chemical Engineering Journal</i> , <b>2011</b> , 166, 435-444	14.7	31
87	Development of a four-zone carousel process packed with metal ion-imprinted polymer for continuous separation of copper ions from manganese ions, cobalt ions, and the constituent metal ions of the buffer solution used as eluent. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 5664-74	4.5	7
86	Proton conducting 9P2O <sub>5</sub> -TiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass-filled Nafion <sup>®</sup> composite membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 366, 421-426	9.6	7
85	sPEEK/ZPMA composite proton exchange membrane for fuel cell application. <i>Journal of Membrane Science</i> , <b>2011</b> , 371, 248-253	9.6	20
84	pH sensitive swelling and releasing behavior of nano-gels based on polyaspartamide graft copolymers. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 356, 100-6	9.3	23
83	Strontium cross-linked sPEEK proton exchange membranes for fuel cell. <i>Solid State Ionics</i> , <b>2011</b> , 192, 627-631	3.3	28
82	Sulfonated poly(ether ether ketone) electrolyte membranes cross-linked with 4,4'-diaminodiphenyl ether. <i>Solid State Ionics</i> , <b>2011</b> , 187, 78-84	3.3	19
81	DESIGN AND SYNTHESIS OF ENDOSOMOLYTIC CONJUGATED POLYASPARTAMIDE FOR CYTOSOLIC DRUG DELIVERY <b>2010</b> , 191-211		
80	Effect of hydrophobic octadecyl groups on pH-sensitive aggregation behavior of imidazole-containing polyaspartamide derivatives. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 6986-91	1.3	2
79	Multifunctional periodic mesoporous organosilicas with bridging groups formed via dynamic covalent chemistry. <i>Chemical Communications</i> , <b>2010</b> , 46, 4568-70	5.8	20
78	Continuous separation of copper ions from a mixture of heavy metal ions using a three-zone carousel process packed with metal ion-imprinted polymer. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 7100-8	4.5	17
77	Batch and column separation characteristics of copper-imprinted porous polymer micro-beads synthesized by a direct imprinting method. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 173, 462-7	12.8	97



76	Effect of polymer solution concentration on the swelling and mechanical properties of glycol chitosan superporous hydrogels. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 3434-3441	2.9	19
75	Cross-linked poly(ether ether ketone) membranes with pendant sulfonic acid groups for fuel cell applications. <i>Journal of Membrane Science</i> , <b>2010</b> , 348, 319-325	9.6	38
74	Enhanced transport performance of sulfonated mesoporous benzene-silica incorporated poly(ether ether ketone) composite membranes for fuel cell application. <i>Journal of Membrane Science</i> , <b>2010</b> , 351, 58-64	9.6	31
73	SAXS cluster structure and properties of sPEEK/PEI composite membranes for DMFC applications. <i>Solid State Ionics</i> , <b>2010</b> , 180, 1690-1693	3.3	37
72	pH-dependent hemolysis of biocompatible imidazole-grafted polyaspartamide derivatives. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2157-64	10.8	33
71	All solid polymer electrolytes based on polar side group rotation for rechargeable lithium batteries. <i>Polymers for Advanced Technologies</i> , <b>2010</b> , 21, 797-801	3.2	11
70	Synthesis, structure, and selective separation behavior of copper-imprinted microporous polymethacrylate beads. <i>AIChE Journal</i> , <b>2009</b> , 55, 3248-3254	3.6	18
69	pH-dependent self-assembling behavior of imidazole-containing polyaspartamide derivatives. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 90, 478-86	5.4	8
68	Production of optically pure poly(lactic acid) from lactic acid. <i>Polymer Bulletin</i> , <b>2009</b> , 63, 637-651	2.4	14
67	Preparation of mesoporous benzene-silica nanoparticles. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 120, 252-256	5.3	20
66	SO <sub>2</sub> permeability and proton conductivity of sPEEK membranes for SO <sub>2</sub> -depolarized electrolyzer. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7919-7926	6.7	6
65	Bifunctional periodic mesoporous organosilicas with thiophene and isocyanurate bridging groups. <i>Langmuir</i> , <b>2009</b> , 25, 13258-63	4	25
64	Three-dimensional cubic (Im3m) periodic mesoporous organosilicas with benzene- and thiophene-bridging groups. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2076		42
63	Periodic Mesoporous Benzene- and Thiophene-Silicas Prepared Using Aluminum Chloride as an Acid Catalyst: Effect of Aluminum Salt/Organosilane Ratio and Stirring Time. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5111-5119	3.8	12
62	Release behavior of amoxicillin from glycol chitosan superporous hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2009</b> , 20, 853-62	3.5	13
61	Effect of morphology and pore size of sulfonated mesoporous benzene-silicas in the preparation of poly(vinyl alcohol)-based hybrid nanocomposite membranes for direct methanol fuel cell application. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 9770-8	3.4	34
60	SAXS and NMR analysis for the cast solvent effect on sPEEK membrane properties. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 10072-6	3.4	61
59	Selective Copper(II) Sorption Behavior of Surface-Imprinted Core-shell-Type Polymethacrylate Microspheres. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 5679-5685	3.9	24

58	Monodisperse Particles of Bifunctional Periodic Mesoporous Organosilica. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4897-4902	3.8	35
57	Role of Aluminum Salts in the Synthesis of Polymer-Templated Periodic Mesoporous Organosilicas. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 2468-2475	9.6	12
56	Micelle formation and sol-gel transition behavior of comb-like amphiphilic poly((PLGA-b-PEG)MA) copolymers. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 1954-1963	2.5	17
55	Metal ion-imprinted polymer microspheres derived from copper methacrylate for selective separation of heavy metal ions. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 108, 14-24	2.9	45
54	Synthesis and characterization of homogeneously sulfonated poly(ether ether ketone) membranes: Effect of casting solvent. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 110, 1763-1770	2.9	43
53	The effect of F127 addition on the properties of PEGDA/PVdF cross-linked gel polymer electrolytes. <i>Journal of Membrane Science</i> , <b>2008</b> , 312, 76-83	9.6	20
52	Zirconium meta-sulfonphenyl phosphonic acid-incorporated Nafion <sup>®</sup> membranes for reduction of methanol permeability. <i>Journal of Membrane Science</i> , <b>2008</b> , 325, 647-652	9.6	19
51	Comparison of homogeneously and heterogeneously sulfonated polyetheretherketone membranes in preparation, properties and cell performance. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 63-69	8.9	66
50	Direct synthesis of sulfonic acid-functionalized periodic mesoporous benzene-silicas with large pores. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1142-1146	3.9	12
49	Multifunctional periodic mesoporous organosilicas prepared with block copolymer: Composition effect on morphology. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 113, 530-537	5.3	12
48	In vitro Release and in vivo Anti-tumor Efficacy of Doxorubicin from Biodegradable Temperature-sensitive Star-shaped PLGA-PEG Block Copolymer Hydrogel. <i>Polymer Journal</i> , <b>2008</b> , 40, 171-176	2.7	32
47	Particle growth behavior of poly(methyl methacrylate) nanoparticles synthesized by the reversible addition fragmentation transfer living radical polymerization reaction. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 3816-3822	2.9	5
46	Crystallinity, morphology, mechanical properties and conductivity study of in situ formed PVdF/LiClO <sub>4</sub> /TiO <sub>2</sub> nanocomposite polymer electrolytes. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 3181-3189	6.7	118
45	Crystallinity, thermal properties, morphology and conductivity of quaternary plasticized PEO-based polymer electrolytes. <i>Polymer International</i> , <b>2007</b> , 56, 381-388	3.3	13
44	Synthesis of acryl phosphate antistatic agent and its effect on the antistatic, thermal and mechanical properties of PMMA. <i>Macromolecular Research</i> , <b>2007</b> , 15, 617-622	1.9	11
43	Modification of Nafion membranes by incorporation of cationic polymers for reduction of methanol permeability. <i>Korean Journal of Chemical Engineering</i> , <b>2007</b> , 24, 1101-1105	2.8	5
42	PEGDA/PVdF/F127 gel type polymer electrolyte membranes for lithium secondary batteries. <i>Journal of Power Sources</i> , <b>2007</b> , 166, 202-210	8.9	29
41	Synthesis of highly ordered mesoporous benzene-silicas using PEOBLGABEO triblock copolymers. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 437-441	1.8	

40	Preparation of Highly Ordered Mesoporous ThiopheneSilica with Spherical Macrostructure. <i>Chemistry Letters</i> , <b>2007</b> , 36, 118-119	1.7	9
39	Nonradiative Energy Transfer in Chromophore-Tagged PSBEO Diblock Copolymers. <i>Macromolecular Symposia</i> , <b>2007</b> , 249-250, 437-444	0.8	1
38	Periodic mesoporous organosilicas with multiple bridging groups and spherical morphology. <i>Langmuir</i> , <b>2007</b> , 23, 11844-9	4	45
37	Synthesis of lactide from oligomeric PLA: Effects of temperature, pressure, and catalyst. <i>Macromolecular Research</i> , <b>2006</b> , 14, 510-516	1.9	67
36	Preparation and swelling behavior of chitosan-based superporous hydrogels for gastric retention application. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 76, 144-50	5.4	68
35	Swelling and mechanical properties of glycol chitosan/poly(vinyl alcohol) IPN-type superporous hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 78, 662-7	5.4	46
34	Phase transition behavior of novel pH-sensitive polyaspartamide derivatives grafted with 1-(3-aminopropyl)imidazole. <i>Macromolecular Bioscience</i> , <b>2006</b> , 6, 758-66	5.5	21
33	Surface characterization of argon-plasma-modified perfluorosulfonic acid membranes. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 4240-6	3.4	26
32	Coloration of monodispersed polystyrene nanoparticles prepared via the RAFT reaction. <i>Polymers for Advanced Technologies</i> , <b>2006</b> , 17, 150-155	3.2	2
31	Nafion <sup>®</sup> -graft-polystyrene sulfonic acid membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , <b>2006</b> , 276, 51-58	9.6	55
30	Conductivity studies on ceramic Li <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> -filled PEO-based solid composite polymer electrolytes. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 690-701	8.9	115
29	Preparation and size control of monodispersed surface charged polystyrene nanoparticles by reversible addition fragmentation transfer reaction. <i>Colloid and Polymer Science</i> , <b>2006</b> , 284, 771-779	2.4	4
28	High-performance liquid chromatography separation characteristics of molecular-imprinted poly(methacrylic acid) microparticles prepared by suspension polymerization. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 96, 200-212	2.9	29
27	Preparation and properties of PEG hydrogel from PEG macromonomer with sulfonate end group. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 96, 56-61	2.9	15
26	Reaction kinetics for the synthesis of oligomeric poly(lactic acid). <i>Macromolecular Research</i> , <b>2005</b> , 13, 68-72	1.9	19
25	Preparation and properties of cross-linked poly(ethylene glycol)/poly[(vinylidene fluoride)-co-hexafluoropropylene] interpenetrating network-type electrolytes for secondary lithium batteries. <i>Polymer International</i> , <b>2005</b> , 54, 1153-1157	3.3	6
24	Residual Stress Behavior of Polyimide Thin Films: Effect of Precursors. <i>Journal of Chemical Engineering of Japan</i> , <b>2005</b> , 38, 615-622	0.8	2
23	Preparation and Characterization of Nafion/Poly(1-vinylimidazole) Composite Membrane for Direct Methanol Fuel Cell Application. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1366	3.9	40

22	Swelling and mechanical properties of superporous hydrogels of poly(acrylamide-co-acrylic acid)/polyethylenimine interpenetrating polymer networks. <i>Polymer</i> , <b>2004</b> , 45, 189-196	3.9	121
21	Preparation and Properties of PHEA/Chitosan Composite Hydrogel. <i>Polymer Journal</i> , <b>2004</b> , 36, 943-948	2.7	24
20	Polymer composition and acidification effects on the swelling and mechanical properties of poly(acrylamide-co-acrylic acid) superporous hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2004</b> , 15, 189-99	3.5	16
19	Physical Properties and Stress Analysis of Low Dielectric Polyimide Films Containing Adamantane Pendant Group. <i>Polymer Journal</i> , <b>2003</b> , 35, 697-703	2.7	8
18	Theoretical and experimental investigation of the swelling behavior of sodium polyacrylate superabsorbent particles. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 87, 252-257	2.9	27
17	Separation characteristics of molecular imprinted poly(methacrylic acid) for retinoid derivatives. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 1081-1087	2.9	2
16	Sulfonated polystyrene grafted polypropylene composite electrolyte membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , <b>2003</b> , 220, 75-87	9.6	80
15	Poly(ethylene glycol) electrolyte gels prepared by condensation reaction. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 86, 948-956	2.9	4
14	Mathematical characteristics of the pom-pom model. <i>Rheologica Acta</i> , <b>2002</b> , 41, 223-231	2.3	5
13	Theoretical and Experimental Analysis on the Thickness-Controlled Residual Stress during Drying of Solvent-Absorbed Polymer Films. <i>Polymer Journal</i> , <b>2001</b> , 33, 503-508	2.7	2
12	Preparation and characterization of water-swellaable natural rubbers. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 115-121	2.9	34
11	Drug-releasing kinetics of MPEG/PLLA block copolymer micelles with different PLLA block lengths. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 2599-2605	2.9	19
10	Determination of Diffusion and Mass Transfer Coefficients during Drying of Solvent-Absorbed Polymer Films. <i>Polymer Journal</i> , <b>2000</b> , 32, 415-421	2.7	4
9	Desaminated glycolysis of water-blown rigid polyurethane foams. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 77, 2646-2656	2.9	17
8	Thermal, mechanical, and diffusional properties of nylon 6/ABS polymer blends: Compatibilizer effect. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 1635-1642	2.3	52
7	Gas permeation behavior of PS/PPO blends. <i>Journal of Membrane Science</i> , <b>1997</b> , 127, 9-15	9.6	19
6	Drug releasing characteristics of thermo- and pH-sensitive interpenetrating polymer networks based on poly (N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 64, 2647-2655	2.9	72
5	Drug releasing characteristics of thermo- and pH-sensitive interpenetrating polymer networks based on poly (N-isopropylacrylamide) <b>1997</b> , 64, 2647		1

4	Concentration and temperature dependence of diffusional Deborah number during dodecane transport in crosslinked polystyrene. <i>Korean Journal of Chemical Engineering</i> , <b>1996</b> , 13, 123-128	2.8	3
3	PVT properties of dodecane/polystyrene systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1994</b> , 32, 1593-1606	2.6	4
2	Self- and mutual-diffusion coefficients in the dodecane/polystyrene system. <i>Journal of Applied Polymer Science</i> , <b>1994</b> , 51, 661-668	2.9	5
1	Viscoelastic properties of dodecane/polystyrene systems. <i>Polymer</i> , <b>1993</b> , 34, 3638-3647	3.9	6