

Dukjoon Kim

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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.

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	Swelling and mechanical properties of superporous hydrogels of poly(acrylamide-co-acrylic acid)/polyethylenimine interpenetrating polymer networks. <i>Polymer</i> , 2004 , 45, 189-196	3.9	121
200	Crystallinity, morphology, mechanical properties and conductivity study of in situ formed PVdF/LiClO ₄ /TiO ₂ nanocomposite polymer electrolytes. <i>Electrochimica Acta</i> , 2007 , 52, 3181-3189	6.7	118
199	Conductivity studies on ceramic Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ -filled PEO-based solid composite polymer electrolytes. <i>Journal of Power Sources</i> , 2006 , 159, 690-701	8.9	115
198	Batch and column separation characteristics of copper-imprinted porous polymer micro-beads synthesized by a direct imprinting method. <i>Journal of Hazardous Materials</i> , 2010 , 173, 462-7	12.8	97
197	Morphology evolution of single-crystalline hematite nanocrystals: magnetically recoverable nanocatalysts for enhanced facet-driven photoredox activity. <i>Nanoscale</i> , 2016 , 8, 365-77	7.7	83
196	Sulfonated polystyrene grafted polypropylene composite electrolyte membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2003 , 220, 75-87	9.6	80
195	Drug releasing characteristics of thermo- and pH-sensitive interpenetrating polymer networks based on poly (N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , 1997 , 64, 2647-2655	2.9	72
194	Preparation and swelling behavior of chitosan-based superporous hydrogels for gastric retention application. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 76, 144-50	5.4	68
193	Synthesis of lactide from oligomeric PLA: Effects of temperature, pressure, and catalyst. <i>Macromolecular Research</i> , 2006 , 14, 510-516	1.9	67
192	Comparison of homogeneously and heterogeneously sulfonated polyetheretherketone membranes in preparation, properties and cell performance. <i>Journal of Power Sources</i> , 2008 , 185, 63-69	8.9	66
191	SAXS and NMR analysis for the cast solvent effect on sPEEK membrane properties. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10072-6	3.4	61
190	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> , 2017 , 5, 2261-2270	13.0	58
189	Nafion [®] -graft-polystyrene sulfonic acid membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2006 , 276, 51-58	9.6	55
188	Thermal, mechanical, and diffusional properties of nylon 6/ABS polymer blends: Compatibilizer effect. <i>Polymer Engineering and Science</i> , 2000 , 40, 1635-1642	2.3	52
187	pH-Sensitive micelles with cross-linked cores formed from polyaspartamide derivatives for drug delivery. <i>Langmuir</i> , 2011 , 27, 12090-7	4	49
186	Pendant dual sulfonated poly(arylene ether ketone) proton exchange membranes for fuel cell application. <i>Journal of Power Sources</i> , 2016 , 328, 355-363	8.9	48
185	Swelling and mechanical properties of glycol chitosan/poly(vinyl alcohol) IPN-type superporous hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 662-7	5.4	46

184	Metal ion-imprinted polymer microspheres derived from copper methacrylate for selective separation of heavy metal ions. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 14-24	2.9	45
183	Periodic mesoporous organosilicas with multiple bridging groups and spherical morphology. <i>Langmuir</i> , 2007 , 23, 11844-9	4	45
182	Synthesis and characterization of homogeneously sulfonated poly(ether ether ketone) membranes: Effect of casting solvent. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 1763-1770	2.9	43
181	Three-dimensional cubic (Im3m) periodic mesoporous organosilicas with benzene- and thiophene-bridging groups. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2076		42
180	Preparation and Characterization of Nafion/Poly(1-vinylimidazole) Composite Membrane for Direct Methanol Fuel Cell Application. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1366	3.9	40
179	Synthesis and selective adsorption behavior of Pd(II)-imprinted porous polymer particles. <i>Chemical Engineering Journal</i> , 2013 , 232, 503-509	14.7	39
178	Highly robust magnetically recoverable Ag/Fe ₂ O ₃ nanocatalyst for chemoselective hydrogenation of nitroarenes in water. <i>Applied Catalysis A: General</i> , 2017 , 538, 148-156	5.1	38
177	Cross-linked poly(ether ether ketone) membranes with pendant sulfonic acid groups for fuel cell applications. <i>Journal of Membrane Science</i> , 2010 , 348, 319-325	9.6	38
176	SAXS cluster structure and properties of sPEEK/PEI composite membranes for DMFC applications. <i>Solid State Ionics</i> , 2010 , 180, 1690-1693	3.3	37
175	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> , 2016 , 511, 143-150	9.6	37
174	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> , 2019 , 581, 139-149	9.6	36
173	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> , 2014 , 469, 238-244	9.6	35
172	Monodisperse Particles of Bifunctional Periodic Mesoporous Organosilica. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4897-4902	3.8	35
171	Proton exchange membranes based on sulfonated poly(arylene ether ketone) containing triazole group for enhanced proton conductivity. <i>Journal of Membrane Science</i> , 2015 , 496, 13-20	9.6	34
170	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> , 2009 , 113, 9770-8	3.4	34
169	Preparation and characterization of water-swellaable natural rubbers. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 115-121	2.9	34
168	pH-dependent hemolysis of biocompatible imidazole-grafted polyaspartamide derivatives. <i>Acta Biomaterialia</i> , 2010 , 6, 2157-64	10.8	33
167	Tailor-made pore controlled poly (arylene ether ketone) membranes as a lithium-ion battery separator. <i>Journal of Power Sources</i> , 2016 , 304, 301-310	8.9	32

166	Fluorescent dye labeled iron oxide/silica core/shell nanoparticle as a multimodal imaging probe. <i>Pharmaceutical Research</i> , 2014 , 31, 3371-8	4.5	32
165	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> , 2008 , 40, 171-176	2.7	32
164	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> , 2014 , 4, 9213-9222	3.7	31
163	Pendant-sulfonated poly(arylene ether ketone) (PAEK) membranes cross-linked with a proton conducting reagent for fuel cells. <i>Journal of Membrane Science</i> , 2012 , 405-406, 176-184	9.6	31
162	Effect of solvent/monomer feed ratio on the structure and adsorption properties of Cu ²⁺ -imprinted microporous polymer particles. <i>Chemical Engineering Journal</i> , 2011 , 166, 435-444	14.7	31
161	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> , 2010 , 351, 58-64	9.6	31
160	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> , 2013 , 222, 103-111	8.9	30
159	Intracellular uptake and pH-dependent release of doxorubicin from the self-assembled micelles based on amphiphilic polyaspartamide graft copolymers. <i>Biomacromolecules</i> , 2015 , 16, 136-44	6.9	29
158	PEGDA/PVdF/F127 gel type polymer electrolyte membranes for lithium secondary batteries. <i>Journal of Power Sources</i> , 2007 , 166, 202-210	8.9	29
157	High-performance liquid chromatography separation characteristics of molecular-imprinted poly(methacrylic acid) microparticles prepared by suspension polymerization. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 200-212	2.9	29
156	Poly(arylene ether ketone) with pendant pyridinium groups for alkaline fuel cell membranes. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12496-12506	6.7	28
155	Synthesis and self-assembly behavior of novel polyaspartamide derivatives for anti-tumor drug delivery. <i>Colloid and Polymer Science</i> , 2011 , 289, 63-71	2.4	28
154	Strontium cross-linked SPEEK proton exchange membranes for fuel cell. <i>Solid State Ionics</i> , 2011 , 192, 627-631	3.3	28
153	Cross-linked aryl-sulfonated poly(arylene ether ketone) proton exchange membranes for fuel cell. <i>Electrochimica Acta</i> , 2012 , 63, 238-244	6.7	27
152	Theoretical and experimental investigation of the swelling behavior of sodium polyacrylate superabsorbent particles. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 252-257	2.9	27
151	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> , 2014 , 39, 1063-1070	6.7	26
150	Surface characterization of argon-plasma-modified perfluorosulfonic acid membranes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 4240-6	3.4	26
149	Bifunctional periodic mesoporous organosilicas with thiophene and isocyanurate bridging groups. <i>Langmuir</i> , 2009 , 25, 13258-63	4	25

148	Surfactant-assisted synthesis of mesoporous silica/ceria-silica composites with high cerium content under basic conditions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12595	13	24
147	Selective Copper(II) Sorption Behavior of Surface-Imprinted Core-Shell-Type Polymethacrylate Microspheres. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 5679-5685	3.9	24
146	Preparation and Properties of PHEA/Chitosan Composite Hydrogel. <i>Polymer Journal</i> , 2004 , 36, 943-948	2.7	24
145	Smart Design of Self-Assembled Mesoporous FeOOH Nanoparticles: High-Surface-Area Sorbent for Hg ²⁺ from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1272-1279	8.3	23
144	Mn-Doped Ordered Mesoporous Ceria-Silica Composites and Their Catalytic Properties toward Biofuel Production. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15892-15901	3.8	23
143	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> , 2017 , 543, 133-142	9.6	23
142	Controlled Synthesis of a Hexagonal-Shaped NiO Nanocatalyst with Highly Reactive Facets {1 1 0} and Its Catalytic Activity. <i>ChemCatChem</i> , 2015 , 7, 791-798	5.2	23
141	pH sensitive swelling and releasing behavior of nano-gels based on polyaspartamide graft copolymers. <i>Journal of Colloid and Interface Science</i> , 2011 , 356, 100-6	9.3	23
140	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> , 2015 , 40, 16443-16456	6.7	22
139	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> , 2018 , 271, 150-157	6.7	22
138	Chemical stability enhancement of Nafion membrane by impregnation of a novel organic EDH radical scavenger, 3,4-dihydroxy-cinnamic acid. <i>Journal of Membrane Science</i> , 2018 , 566, 1-7	9.6	22
137	Folate-PEG/Hyd-curcumin/C18-g-PSI micelles for site specific delivery of curcumin to colon cancer cells via Wnt/β-catenin signaling pathway. <i>Materials Science and Engineering C</i> , 2019 , 101, 464-471	8.3	21
136	Phase transition behavior of novel pH-sensitive polyaspartamide derivatives grafted with 1-(3-aminopropyl)imidazole. <i>Macromolecular Bioscience</i> , 2006 , 6, 758-66	5.5	21
135	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> , 2017 , 19, 1937-1944	3.6	20
134	Advantageous of Hybrid Fuel Cell Operation under Self-Humidification for Energy Efficient Bipolar Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16493-16500	8.3	20
133	Multifunctional periodic mesoporous organosilicas with bridging groups formed via dynamic covalent chemistry. <i>Chemical Communications</i> , 2010 , 46, 4568-70	5.8	20
132	Preparation of mesoporous benzene-silica nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2009 , 120, 252-256	5.3	20
131	sPEEK/ZPMA composite proton exchange membrane for fuel cell application. <i>Journal of Membrane Science</i> , 2011 , 371, 248-253	9.6	20

- 130 The effect of F127 addition on the properties of PEGDA/PVdF cross-linked gel polymer electrolytes. *Journal of Membrane Science*, **2008**, 312, 76-83 9.6 20
- 129 Ceria-Containing Ordered Mesoporous Silica: Synthesis, Properties, and Applications. *ChemCatChem*, **2016**, 8, 285-303 5.2 19
- 128 Bioadhesive Nanoaggregates Based on Polyaspartamide-g-C18/DOPA for Wound Healing. *Biomacromolecules*, **2017**, 18, 2402-2409 6.9 19
- 127 Comparison of proton conducting polymer electrolyte membranes prepared from multi-block and random copolymers based on poly(arylene ether ketone). *Journal of Power Sources*, **2015**, 281, 146-157 8.9 19
- 126 Preparation and swelling properties of click hydrogel from polyaspartamide derivatives using tri-arm PEG and PEG-co-poly(amino urethane) azides as crosslinking agents. *Polymer*, **2013**, 54, 1341-1349 3.9 19
- 125 Semi-interpenetrating polymer network electrolyte membranes composed of sulfonated poly(ether ether ketone) and organosiloxane-based hybrid network. *Journal of Power Sources*, **2011**, 196, 10584-10590 8.9 19
- 124 Sulfonated poly(ether ether ketone) electrolyte membranes cross-linked with 4,4'-diaminodiphenyl ether. *Solid State Ionics*, **2011**, 187, 78-84 3.3 19
- 123 Effect of polymer solution concentration on the swelling and mechanical properties of glycol chitosan superporous hydrogels. *Journal of Applied Polymer Science*, **2010**, 115, 3434-3441 2.9 19
- 122 Gas permeation behavior of PS/PPO blends. *Journal of Membrane Science*, **1997**, 127, 9-15 9.6 19
- 121 Zirconium meta-sulfonphenyl phosphonic acid-incorporated Nafion[®] membranes for reduction of methanol permeability. *Journal of Membrane Science*, **2008**, 325, 647-652 9.6 19
- 120 Reaction kinetics for the synthesis of oligomeric poly(lactic acid). *Macromolecular Research*, **2005**, 13, 68-72 1.9 19
- 119 Drug-releasing kinetics of MPEG/PLLA block copolymer micelles with different PLLA block lengths. *Journal of Applied Polymer Science*, **2001**, 82, 2599-2605 2.9 19
- 118 Synthesis, structure, and selective separation behavior of copper-imprinted microporous polymethacrylate beads. *AIChE Journal*, **2009**, 55, 3248-3254 3.6 18
- 117 Catalytic activity of CeIVO₂/Ce₂III₂O₃-silica mesoporous composite materials for oxidation and esterification reactions. *Chemical Engineering Journal*, **2015**, 262, 1116-1125 14.7 17
- 116 Paclitaxel loaded nano-aggregates based on pH sensitive polyaspartamide amphiphilic graft copolymers. *International Journal of Pharmaceutics*, **2012**, 424, 26-32 6.5 17
- 115 Zn²⁺-imprinted porous polymer beads: Synthesis, structure, and selective adsorption behavior for template ion. *Reactive and Functional Polymers*, **2013**, 73, 821-827 4.6 17
- 114 Cross-linked poly(arylene ether ketone) proton exchange membranes sulfonated on polymer backbone, pendant, and cross-linked sites for enhanced proton conductivity. *Solid State Ionics*, **2015**, 270, 66-72 3.3 17
- 113 Continuous separation of copper ions from a mixture of heavy metal ions using a three-zone carousel process packed with metal ion-imprinted polymer. *Journal of Chromatography A*, **2010**, 1217, 7100-8 4.5 17

112	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> , 2008 , 46, 1954-1963	2.5	17
111	Desaminated glycolysis of water-blown rigid polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2646-2656	2.9	17
110	Enhancement of oxidative stability of PEM fuel cell by introduction of HO• radical scavenger in Nafion ionomer. <i>Journal of Membrane Science</i> , 2020 , 613, 118517	9.6	17
109	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> , 2018 , 290, 544-555	6.7	17
108	Solid Electrolyte Membrane Prepared from Poly(arylene ether sulfone)-g- Poly(ethylene glycol) for Lithium Secondary Battery. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2585-2595	6.1	16
107	Ultra-low vanadium ion permeable electrolyte membrane for vanadium redox flow battery by pore filling of PTFE substrate. <i>Energy Storage Materials</i> , 2020 , 31, 105-114	19.4	16
106	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> , 2018 , 43, 4517-4527	6.7	16
105	In Situ gelling and drug release behavior from novel temperature-sensitive polyaspartamides. <i>Macromolecular Research</i> , 2011 , 19, 515-518	1.9	16
104	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> , 2004 , 15, 189-99	3.5	16
103	Preparation and properties of PEG hydrogel from PEG macromonomer with sulfonate end group. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 56-61	2.9	15
102	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> , 2016 , 290, 62-70	3.3	15
101	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> , 2019 , 71, 361-368	6.3	15
100	Polyaspartamide-based graft copolymers encapsulating iron oxide nanoparticles for imaging and fluorescence labelling of immune cells. <i>Biomaterials Science</i> , 2017 , 5, 305-312	7.4	14
99	Cross-linked poly(arylene ether ketone) electrolyte membranes with enhanced proton conduction for fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 19007-19016	6.7	14
98	Sulfonated PEEK/cubic (Im3m) mesoporous benzene-silica composite membranes operable at low humidity. <i>Solid State Ionics</i> , 2011 , 203, 1-8	3.3	14
97	Production of optically pure poly(lactic acid) from lactic acid. <i>Polymer Bulletin</i> , 2009 , 63, 637-651	2.4	14
96	Thermal, mechanical, and electrochemical stability enhancement of Al ₂ O ₃ coated polypropylene/polyethylene/polypropylene separator via poly(vinylidene fluoride)-poly(ethoxylated pentaerythritol tetraacrylate) semi-interpenetrating network binder. <i>Journal of Membrane Science</i> , 2020 , 612, 118481	9.6	14
95	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> , 2019 , 578, 103-110	9.6	14

94	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> , 2019 , 57, 101-109	2.5	14
93	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> , 2018 , 393, 11-18	8.9	14
92	Self-assembled nanoaggregates based on polyaspartamide graft copolymers for pH-controlled release of doxorubicin. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2978-2985	7.3	13
91	Release behavior of amoxicillin from glycol chitosan superporous hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 853-62	3.5	13
90	Crystallinity, thermal properties, morphology and conductivity of quaternary plasticized PEO-based polymer electrolytes. <i>Polymer International</i> , 2007 , 56, 381-388	3.3	13
89	Tough and Flexible, Super Ion-Conductive Electrolyte Membranes for Lithium-Based Secondary Battery Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2008586	15.6	13
88	Solid electrolyte membranes prepared from poly(arylene ether ketone)-g-polyimidazolium copolymer integrated with ionic liquid for lithium secondary battery. <i>Journal of Power Sources</i> , 2019 , 422, 57-64	8.9	12
87	Gold-installed biostable nanocomplexes for tumor-targeted siRNA delivery in vivo. <i>Chemical Communications</i> , 2015 , 51, 16656-9	5.8	12
86	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> , 2013 , 243, 850-858	8.9	12
85	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> , 2009 , 113, 5111-5119	3.8	12
84	Role of Aluminum Salts in the Synthesis of Polymer-Templated Periodic Mesoporous Organosilicas. <i>Chemistry of Materials</i> , 2008 , 20, 2468-2475	9.6	12
83	Direct synthesis of sulfonic acid-functionalized periodic mesoporous benzene-silicas with large pores. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1142-1146	3.9	12
82	Multifunctional periodic mesoporous organosilicas prepared with block copolymer: Composition effect on morphology. <i>Microporous and Mesoporous Materials</i> , 2008 , 113, 530-537	5.3	12
81	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> , 2021 , 634, 119430	9.6	12
80	Synthesis and Selective Sorption Behavior of Pt(IV) Ion-Imprinted Polymer Particles. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13340-13347	3.9	11
79	Synthesis and properties of cross-linked poly(arylene ether ketone) electrolyte membranes containing hygroscopic proton conductors. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 8160-8171	6.7	11
78	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> , 2012 , 116, 16023-16029	3.8	11
77	All solid polymer electrolytes based on polar side group rotation for rechargeable lithium batteries. <i>Polymers for Advanced Technologies</i> , 2010 , 21, 797-801	3.2	11

76	Synthesis of acryl phosphate antistatic agent and its effect on the antistatic, thermal and mechanical properties of PMMA. <i>Macromolecular Research</i> , 2007 , 15, 617-622	1.9	11
75	Proton conducting electrolyte membranes based on the pendant-sulfonated poly(arylene ether ketone)/polyorganosiloxane interpenetrating polymer networks. <i>Journal of Membrane Science</i> , 2013 , 430, 37-43	9.6	9
74	Preparation of Highly Ordered Mesoporous ThiopheneSilica with Spherical Macrostructure. <i>Chemistry Letters</i> , 2007 , 36, 118-119	1.7	9
73	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> , 2019 , 4, 901-911	4.6	8
72	Ionic liquid impregnated lithium ion conductive solid electrolytes based on poly(acetyl ethylene glycol methacrylate)- <i>co</i> -methyl acrylate). <i>Solid State Ionics</i> , 2015 , 279, 18-24	3.3	8
71	Synthesis of Hollow Doughnut Shape Mesoporous Silica Nanoparticle: A Case of Self-Assembly Composite Templates. <i>Langmuir</i> , 2018 , 34, 3901-3908	4	8
70	Synthesis and selective recognition property of Ni ²⁺ -imprinted microporous polymer beads. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 747-751	3.2	8
69	pH-dependent self-assembling behavior of imidazole-containing polyaspartamide derivatives. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 478-86	5.4	8
68	Physical Properties and Stress Analysis of Low Dielectric Polyimide Films Containing Adamantane Pendant Group. <i>Polymer Journal</i> , 2003 , 35, 697-703	2.7	8
67	Toughened polymer electrolyte membranes composed of sulfonated poly(arylene ether ketone) block copolymer and organosiloxane network for fuel cell. <i>Solid State Ionics</i> , 2019 , 335, 23-31	3.3	8
66	Selective sorption behavior of metal(II) ion-imprinted polymethacrylate microspheres synthesized via precipitation polymerization method. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 967-973	2.8	7
65	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> , 2011 , 1218, 5664-74	4.5	7
64	Proton conducting 9P2O5/8TiO2/85SiO2 glass-filled Nafion® composite membranes. <i>Journal of Membrane Science</i> , 2011 , 366, 421-426	9.6	7
63	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> , 2019 , 27, 175-181	1.9	7
62	Solid electrolyte membranes prepared from poly(arylene ether sulfone)- <i>g</i> -poly(ethylene glycol) with various functional end groups for lithium-ion battery. <i>Journal of Membrane Science</i> , 2021 , 621, 119023	9.6	7
61	Optically Transparent and Low-CTE Polyethersulfone-Based Nanocomposite Films for Flexible Display. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001422	4.6	6
60	Polysuccinimide graft copolymer nano aggregates encapsulating magnetites for imaging probe. <i>Macromolecular Research</i> , 2012 , 20, 259-265	1.9	6
59	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> , 2013 , 13, 7529-34	1.3	6

58	SO ₂ permeability and proton conductivity of SPEEK membranes for SO ₂ -depolarized electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7919-7926	6.7	6
57	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> , 2005 , 54, 1153-1157	3.3	6
56	Viscoelastic properties of dodecane/polystyrene systems. <i>Polymer</i> , 1993 , 34, 3638-3647	3.9	6
55	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> , 2020 , 10,	3.8	6
54	pH-triggered intracellular release of doxorubicin from polyaspartamide-encapsulated mesoporous silica nanoparticles. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 166-172	2.8	6
53	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> , 2020 , 31, 335712 ^{3,4}		5
52	Reductant-Free Synthesis of Silver Nanoparticles by Functionalized Hollow Doughnut Mesoporous Silica Nanoparticles for Preparation of Catalytic Nanoreactor. <i>ChemistrySelect</i> , 2018 , 3, 1772-1780	1.8	5
51	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> , 2007 , 106, 3816-3822	2.9	5
50	Modification of Nafion membranes by incorporation of cationic polymers for reduction of methanol permeability. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 1101-1105	2.8	5
49	Mathematical characteristics of the pom-pom model. <i>Rheologica Acta</i> , 2002 , 41, 223-231	2.3	5
48	Self- and mutual-diffusion coefficients in the dodecane/polystyrene system. <i>Journal of Applied Polymer Science</i> , 1994 , 51, 661-668	2.9	5
47	Encapsulation of superparamagnetic iron oxide nanoparticles with polyaspartamide biopolymer for hyperthermia therapy. <i>European Polymer Journal</i> , 2020 , 122, 109396	5.2	5
46	Porous PTFE reinforced SPEEK proton exchange membranes for enhanced mechanical, dimensional, and electrochemical stability. <i>Polymer</i> , 2021 , 218, 123506	3.9	5
45	Free-Standing Ion-Conductive Gels Based on Polymerizable Imidazolium Ionic Liquids. <i>Langmuir</i> , 2019 , 35, 16624-16629	4	5
44	Pb(II) ion-imprinted micro-porous particles for the selective separation of Pb(II) ions. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 8578-83	1.3	4
43	Preparation and size control of monodispersed surface charged polystyrene nanoparticles by reversible addition fragmentation transfer reaction. <i>Colloid and Polymer Science</i> , 2006 , 284, 771-779	2.4	4
42	Poly(ethylene glycol) electrolyte gels prepared by condensation reaction. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 948-956	2.9	4
41	Determination of Diffusion and Mass Transfer Coefficients during Drying of Solvent-Absorbed Polymer Films. <i>Polymer Journal</i> , 2000 , 32, 415-421	2.7	4

40	PVT properties of dodecane/polystyrene systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994 , 32, 1593-1606	2.6	4
39	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> , 2022 , 642, 119990	9.6	4
38	Poly(arylene ether ketone)-based bipolar membranes for acid/alkaline water electrolysis applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5485-5496	13	4
37	Unusual Photoactive Water Oxidation Activity of Pt/PtOx Cocatalyst Decorated Crystalline Fe ₂ O ₃ Nanostructures: Exposed Facets Dependent Reactivity. <i>ChemCatChem</i> , 2020 , 12, 2315-2323	5.2	3
36	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> , 2017 , 34, 2536-2540	2.8	3
35	Cross-linked poly(arylene ether ketone) membrane bearing pendant sulfanilic acid for high proton conductivity and low water uptake. <i>Solid State Ionics</i> , 2012 , 224, 58-63	3.3	3
34	Concentration and temperature dependence of diffusional Deborah number during dodecane transport in crosslinked polystyrene. <i>Korean Journal of Chemical Engineering</i> , 1996 , 13, 123-128	2.8	3
33	Synergistic Effect of 2-Acrylamido-2-methyl-1-propanesulfonic Acid on the Enhanced Conductivity for Fuel Cell at Low Temperature. <i>Membranes</i> , 2020 , 10,	3.8	3
32	Enhancement of electrochemical performance and anti-oxidation stability by protection of lithium metal anode with Li ⁺ conductive poly(arylene ether sulfone)-g-poly(ethylene glycol) layer for lithium metal battery. <i>Journal of Power Sources</i> , 2021 , 495, 229744	8.9	3
31	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> , 2022 , 529, 231255	8.9	3
30	Hollow doughnut shaped mesoporous silica nanoparticles for reduction of the thermal expansion coefficient of poly(ether sulfone) films. <i>New Journal of Chemistry</i> , 2018 , 42, 5045-5051	3.6	2
29	Synthesis and properties of all solid polymer electrolytes based on poly(vinyl acetate-co-acetyl ethylene oxide acrylate). <i>Polymers for Advanced Technologies</i> , 2011 , 22, 2130-2135	3.2	2
28	Effect of hydrophobic octadecyl groups on pH-sensitive aggregation behavior of imidazole-containing polyaspartamide derivatives. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6986-91	1.3	2
27	pH-sensitive amphiphilic biodegradable graft co-polymer aggregates based on polyaspartamide for intracellular delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 1255-69	3.5	2
26	Coloration of monodispersed polystyrene nanoparticles prepared via the RAFT reaction. <i>Polymers for Advanced Technologies</i> , 2006 , 17, 150-155	3.2	2
25	Separation characteristics of molecular imprinted poly(methacrylic acid) for retinoid derivatives. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 1081-1087	2.9	2
24	Residual Stress Behavior of Polyimide Thin Films: Effect of Precursors. <i>Journal of Chemical Engineering of Japan</i> , 2005 , 38, 615-622	0.8	2
23	Theoretical and Experimental Analysis on the Thickness-Controlled Residual Stress during Drying of Solvent-Absorbed Polymer Films. <i>Polymer Journal</i> , 2001 , 33, 503-508	2.7	2

22	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> , 2022 , 68, 603-611	12	2
21	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> , 2022 , 435, 135092	14.7	2
20	Proton conductivity improvement of polymer electrolyte membrane using nano-scale explosion of water in the membrane. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 782, 32-35	4.1	2
19	Bone targeting nano-aggregates prepared from self-assembled polyaspartamide graft copolymers for pH sensitive DOX delivery. <i>Biomaterials Science</i> , 2021 , 9, 1660-1667	7.4	2
18	Transparent poly(ether sulfone) nanocomposite film with low thermal expansion coefficient for flexible display substrates. <i>Composites Part B: Engineering</i> , 2021 , 224, 109164	10	2
17	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> , 2022 , 47, 394-407	19.4	2
16	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> , 2020 , 10, 36704-36712	3.7	1
15	Nanometer-Scale Water Dynamics in Nafion Polymer Electrolyte Membranes: Influence of Molecular Hydrophobicity and Water Content Revisited. <i>ACS Macro Letters</i> , 2020 , 9, 1013-1018	6.6	1
14	Nonradiative Energy Transfer in Chromophore-Tagged PSBEO Diblock Copolymers. <i>Macromolecular Symposia</i> , 2007 , 249-250, 437-444	0.8	1
13	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> , 2022 , 648, 120349	9.6	1
12	Surface hydrophilization toward the proton conductive porous PTFE substrate impregnating SPEEK for polymer electrolyte membranes. <i>Progress in Organic Coatings</i> , 2022 , 163, 106643	4.8	1
11	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> , 2020 , 26,	4.8	1
10	Enhanced Ion Cluster Size of Sulfonated Poly (Arylene Ether Sulfone) for Proton Exchange Membrane Fuel Cell Application. <i>Polymers</i> , 2021 , 13,	4.5	1
9	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> , 2021 , 624, 119029	9.6	1
8	Ultrathin nickel oxide nanosheets: Highly exposed Ni ³⁺ -doped high-energy {110} facets. <i>Materials Research Bulletin</i> , 2021 , 139, 111251	5.1	1
7	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> , 2021 , 507, 230288	8.9	1
6	Drug releasing characteristics of thermo- and pH-sensitive interpenetrating polymer networks based on poly (N-isopropylacrylamide) 1997 , 64, 2647		1
5	A rapid hydrophilization of porous poly(tetrafluoroethylene) film via co-deposition of phenol derivatives and polyethyleneimine. <i>Progress in Organic Coatings</i> , 2021 , 157, 106077	4.8	0

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| 4 | A Facile and Sustainable Enhancement of Anti-Oxidation Stability of Nafion Membrane. <i>Membranes</i> , 2022 , 12, 521 | 3.8 | o |
| 3 | Nanocomposite Films: Optically Transparent and Low-CTE Polyethersulfone-Based Nanocomposite Films for Flexible Display (Adv. Mater. Interfaces 24/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070134 | 4.6 | |
| 2 | DESIGN AND SYNTHESIS OF ENDOSOMOLYTIC CONJUGATED POLYASPARTAMIDE FOR CYTOSOLIC DRUG DELIVERY 2010 , 191-211 | | |
| 1 | Synthesis of highly ordered mesoporous benzene-silicas using PEOBLAGABEO triblock copolymers. <i>Studies in Surface Science and Catalysis</i> , 2007 , 437-441 | 1.8 | |