Jong-Chan Lee

List of Publications by Year in Descending Order

156 papers	4,802 citations	40 h-index	61 g-index
163 ext. papers	5,482 ext. citations	6.1 avg, IF	5.84 L-index

#	Paper	IF	Citations
156	Synthesis of polybenzimidazoles having improved processability by introducing two and three ether groups in a repeating unit. *European Polymer Journal*, **2022**, 162, 110900	5.2	1
155	Thermally cross-linked sulfonated poly(ether ether ketone) membranes containing a basic polymer-grafted graphene oxide for vanadium redox flow battery application. *Journal of Energy Storage*, **2022**, 45, 103784	7.8	0
154	Solid polymer electrolytes based on polysiloxane with anion-trapping boron moieties for all-solid-state lithium metal batteries. *Polymer*, **2022**, 240, 124517	3.9	0
153	Perfluorocyclobutyl-containing multiblock copolymers to induce enhanced hydrophilic/hydrophobic phase separation and high proton conductivity at low humidity. *Journal of Membrane Science*, **2022**, 641, 119892	9.6	2
152	Lithium dendrite suppression by single-ion conducting gel polymer electrolyte cross-linked with graphene oxide. *Journal of Power Sources*, **2022**, 534, 231424	8.9	0
151	Solid electrolyte membranes based on polybenzimidazole containing graphitic carbon nitride moiety (PBICN) for high-temperature fuel cell applications. *Polymer*, **2021**, 235, 124247	3.9	1
150	Improving Physical Properties of Polypropylene Nanocomposites by a Natural Resource-Based Bottom-up Graphene Oxide Filler. *Macromolecular Research*, **2021**, 29, 487-493	1.9	1
149	Polybenzimidazole composite membranes containing imidazole functionalized graphene oxide showing high proton conductivity and improved physicochemical properties. *International Journal of Hydrogen Energy*, **2021**, 46, 12254-12262	6.7	15
148	High-performance proton-exchange membrane water electrolysis using a sulfonated poly(arylene ether sulfone) membrane and ionomer. *Journal of Membrane Science*, **2021**, 620, 118871	9.6	22
147	Superamphiphilic zwitterionic block copolymer surfactant-assisted fabrication of polyamide thin-film composite membrane with highly enhanced desalination performance. *Journal of Membrane Science*, **2021**, 618, 118677	9.6	9
146	Cationic polymer-grafted graphene oxide/CNT cathode-coating material for lithium-sulfur batteries.. *RSC Advances*, **2021**, 11, 25305-25313	3.7	2
145	Preparation of bottom-up graphene oxide using citric acid and tannic acid, and its application as a filler for polypropylene nanocomposites.. *RSC Advances*, **2021**, 11, 7663-7671	3.7	3
144	Poly(vinylidene fluoride)-based film with strong antimicrobial activity. *Applied Surface Science*, **2021** , 562, 150181	6.7	2
143	End-group cross-linked membranes based on highly sulfonated poly(arylene ether sulfone) with vinyl functionalized graphene oxide as a cross-linker and a filler for proton exchange membrane fuel cell application. *Journal of Polymer Science*, **2020**, 58, 3456-3466	2.4	2
142	Sustainable Lignin-Derived Cross-Linked Graft Polymers as Electrolyte and Binder Materials for Lithium Metal Batteries. *ChemSusChem*, **2020**, 13, 2642-2649	8.3	14
141	Sulfonated poly(arylene ether sulfone) composite membrane having sulfonated polytriazole grafted graphene oxide for high-performance proton exchange membrane fuel cells. *Journal of Membrane Science*, **2020**, 612, 118428	9.6	18
140	Carbonization of Carboxylate-Functionalized Polymers of Intrinsic Microporosity for Water Treatment. *Macromolecular Chemistry and Physics*, **2020**, 221, 1900532	2.6	1

139	PIM-1-based carbon–sulfur composites for sodium–sulfur batteries that operate without the shuttle effect. *Journal of Materials Chemistry A*, **2020**, 8, 3580-3585	13	20
138	Preparation of a novel phosphorus–nitrogen flame retardant and its effects on the flame retardancy and physical properties of polyketone. *Journal of Applied Polymer Science*, **2020**, 137, 49199	2.9	2
137	Preparation of Poly(phenylene sulfide)/Nylon 6 Grafted Graphene Oxide Nanocomposites with Enhanced Mechanical and Thermal Properties. *Macromolecular Research*, **2020**, 28, 241-248	1.9	6
136	Fluorinated Methacrylate-Grafted P(VDF-CTFE) and Albumin Layers for Reducing Fibrinogen Adsorption. *ACS Applied Polymer Materials*, **2020**, 2, 178-188	4.3	2
135	High-flux and antifouling polyethersulfone nanocomposite membranes incorporated with zwitterion-functionalized graphene oxide for ultrafiltration applications. *Journal of Industrial and Engineering Chemistry*, **2020**, 84, 131-140	6.3	34
134	Enhanced cycle stability of rechargeable Li-O2 batteries using immobilized redox mediator on air cathode. *Journal of Industrial and Engineering Chemistry*, **2020**, 83, 14-19	6.3	4
133	Cross-linked sulfonated poly(ether ether ketone) membranes formed by poly(2,5-benzimidazole)-grafted graphene oxide as a novel cross-linker for direct methanol fuel cell applications. *Journal of Power Sources*, **2020**, 448, 227427	8.9	25
132	Simple and Effective Cross-Linking Technology for the Preparation of Cross-Linked Membranes Composed of Highly Sulfonated Poly(ether ether ketone) and Poly(arylene ether sulfone) for Fuel Cell Applications. *ACS Applied Energy Materials*, **2020**, 3, 10495-10505	6.1	10
131	Ultrafiltration Membranes Coated by Amphiphilic Copolymers Containing Superhydrophilic Zwitterionic and Hydrophobic POSS Moieties Showing Improved Fouling Resistance/Release Properties. *Macromolecular Materials and Engineering*, **2020**, 305, 2000348	3.9	1
130	Access to Fluorinated Polymer Surfaces with Outstanding Mechanical Property, High Optical Transparency, and Low Surface Energy via Nonafluoro-tert-Butyl Group Introduction. *ACS Applied Polymer Materials*, **2020**, 2, 3957-3965	4.3	3
129	Improvement in mechanical and thermal properties of polypropylene nanocomposites using an extremely small amount of alkyl chain-grafted hexagonal boron nitride nanosheets. *Polymer*, **2019**, 180, 121714	3.9	17
128	3D hierarchical scaffolds enabled by a post-patternable, reconfigurable, and biocompatible 2D vitrimer film for tissue engineering applications. *Journal of Materials Chemistry B*, **2019**, 7, 3341-3345	7.3	4
127	Highly sulfonated polymer-grafted graphene oxide composite membranes for proton exchange membrane fuel cells. *Journal of Industrial and Engineering Chemistry*, **2019**, 74, 223-232	6.3	43
126	Cross-linked highly sulfonated poly(arylene ether sulfone) membranes prepared by in-situ casting and thiol-ene click reaction for fuel cell application. *Journal of Membrane Science*, **2019**, 579, 70-78	9.6	41
125	Gel Polymer Electrolytes Based on Polymerizable Lithium Salt and Poly(ethylene glycol) for Lithium Battery Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 29718-29724	9.5	42
124	Universal perpendicular orientation of block copolymer microdomains using a filtered plasma. *Nature Communications*, **2019**, 10, 2912	17.4	23
123	Synthesis and characterization of biocompatible copolymers containing plant-based cardanol and zwitterionic groups for antifouling and bactericidal coating applications. *European Polymer Journal*, **2019**, 112, 688-695	5.2	8
122	Quasi-Solid-State Rechargeable Li-O Batteries with High Safety and Long Cycle Life at Room Temperature. *ACS Applied Materials & Interfaces*, **2018**, 10, 15634-15641	9.5	11

121	Nonflammable and thermally stable gel polymer electrolytes based on crosslinked perfluoropolyether (PFPE) network for lithium battery applications. *Journal of Industrial and Engineering Chemistry*, **2018**, 64, 453-460	6.3	12
120	Dual Roles of Graphene Oxide To Attenuate Inflammation and Elicit Timely Polarization of Macrophage Phenotypes for Cardiac Repair. *ACS Nano*, **2018**, 12, 1959-1977	16.7	116
119	Environmentally Sustainable Aluminum-Coordinated Poly(tetrahydroxybenzoquinone) as a Promising Cathode for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 3479-3486	8.5	29
118	Polysulfone based ultrafiltration membranes with dopamine and nisin moieties showing antifouling and antimicrobial properties. *Separation and Purification Technology*, **2018**, 202, 9-20	8.3	16
117	Comb-shaped polysulfones containing sulfonated polytriazole side chains for proton exchange membranes. *Journal of Membrane Science*, **2018**, 554, 232-243	9.6	29
116	Cross-Linked Sulfonated Poly(arylene ether sulfone) Containing a Flexible and Hydrophobic Bishydroxy Perfluoropolyether Cross-Linker for High-Performance Proton Exchange Membrane. *ACS Applied Materials & Interfaces*, **2018**, 10, 21788-21793	9.5	30
115	Systematic structure control of ammonium iodide salts as feasible UCST-type forward osmosis draw solutes for the treatment of wastewater. *Journal of Materials Chemistry A*, **2018**, 6, 1255-1265	13	14
114	The effect of electron density in furan pendant group on thermal-reversible Diels-Alder reaction based self-healing properties of polymethacrylate derivatives.. *RSC Advances*, **2018**, 8, 39432-39443	3.7	5
113	Coaxial struts and microfractured structures of compressible thermoelectric foams for self-powered pressure sensors. *Nanoscale*, **2018**, 10, 18370-18377	7.7	14
112	End-group cross-linked sulfonated poly(arylene ether sulfone) via thiol-ene click reaction for high-performance proton exchange membrane. *Journal of Power Sources*, **2018**, 401, 20-28	8.9	27
111	Cross-Linked Graphene Oxide Membrane Functionalized with Self-Cross-Linkable and Bactericidal Cardanol for Oil/Water Separation. *ACS Applied Nano Materials*, **2018**, 1, 2600-2608	5.6	24
110	Multifunctional Mesoporous Ionic Gels and Scaffolds Derived from Polyhedral Oligomeric Silsesquioxanes. *ACS Applied Materials & Interfaces*, **2017**, 9, 3616-3623	9.5	27
109	Graphene oxide reinforced hydrogels for osteogenic differentiation of human adipose-derived stem cells. *RSC Advances*, **2017**, 7, 20779-20788	3.7	26
108	Proton conductive cross-linked benzoxazine-benzimidazole copolymers as novel porous substrates for reinforced pore-filling membranes in fuel cells operating at high temperatures. *Journal of Membrane Science*, **2017**, 536, 76-85	9.6	29
107	Highly reinforced pore-filling membranes based on sulfonated poly(arylene ether sulfone)s for high-temperature/low-humidity polymer electrolyte membrane fuel cells. *Journal of Membrane Science*, **2017**, 537, 11-21	9.6	35
106	2D boron nitride nanoflakes as a multifunctional additive in gel polymer electrolytes for safe, long cycle life and high rate lithium metal batteries. *Energy and Environmental Science*, **2017**, 10, 1911-1916	35.4	204
105	Dendrite Suppression by Synergistic Combination of Solid Polymer Electrolyte Crosslinked with Natural Terpenes and Lithium-Powder Anode for Lithium-Metal Batteries. *ChemSusChem*, **2017**, 10, 2274-2283	8.3	38
104	Hybrid Ionogel Electrolytes Derived from Polyhedral Oligomeric Silsesquioxane for Lithium Ion Batteries. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 3101-3104	1.3	2

103	Highly Carboxylate-Functionalized Polymers of Intrinsic Microporosity for CO2-Selective Polymer Membranes. *Macromolecules*, **2017**, 50, 8019-8027	5.5	45
102	Enhanced Osteogenic Commitment of Human Mesenchymal Stem Cells on Polyethylene Glycol-Based Cryogel with Graphene Oxide Substrate. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2470-2479	5.5	9
101	Antibacterial and biocompatible ABA-triblock copolymers containing perfluoropolyether and plant-based cardanol for versatile coating applications. *RSC Advances*, **2017**, 7, 38091-38099	3.7	7
100	All-solid-state lithium metal battery with solid polymer electrolytes based on polysiloxane crosslinked by modified natural gallic acid. *Polymer*, **2017**, 122, 222-231	3.9	39
99	Synthesis of high molecular weight polybenzimidazole using a highly pure monomer under mild conditions. *Polymer International*, **2017**, 66, 1812-1818	3.3	9
98	Ultra-hydrophobic sticky polymer surfaces formed by water-induced surface deformation. *Journal of Colloid and Interface Science*, **2017**, 490, 84-90	9.3	6
97	Enhanced physical stability and chemical durability of sulfonated poly(arylene ether sulfone) composite membranes having antioxidant grafted graphene oxide for polymer electrolyte membrane fuel cell applications. *Journal of Membrane Science*, **2017**, 525, 125-134	9.6	71
96	Cross-linked graphene oxide membrane having high ion selectivity and antibacterial activity prepared using tannic acid-functionalized graphene oxide and polyethyleneimine. *Journal of Membrane Science*, **2017**, 521, 1-9	9.6	151
95	A Carbonaceous Membrane based on a Polymer of Intrinsic Microporosity (PIM-1) for Water Treatment. *Scientific Reports*, **2016**, 6, 36078	4.9	31
94	Liquid Crystals: Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals (Adv. Mater. 42/2016). *Advanced Materials*, **2016**, 28, 9439-9439	24	1
93	Poly(vinyl alcohol) nanocomposites containing reduced graphene oxide coated with tannic acid for humidity sensor. *Polymer*, **2016**, 84, 89-98	3.9	60
92	Liquid Crystal Alignment Behaviors on Comb-Like Fluorinated Polystyrene Films. *Molecular Crystals and Liquid Crystals*, **2016**, 626, 183-192	0.5	1
91	Reverse osmosis nanocomposite membranes containing graphene oxides coated by tannic acid with chlorine-tolerant and antimicrobial properties. *Journal of Membrane Science*, **2016**, 514, 25-34	9.6	109
90	Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals. *Advanced Materials*, **2016**, 28, 9301-9307	24	29
89	Gel Polymer Electrolytes Containing Anion-Trapping Boron Moieties for Lithium-Ion Battery Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 27740-27752	9.5	59
88	Highly proton conductive, dense polybenzimidazole membranes with low permeability to vanadium and enhanced H2SO4 absorption capability for use in vanadium redox flow batteries. *Journal of Materials Chemistry A*, **2016**, 4, 14342-14355	13	90
87	Enhanced biocompatibility in poly(3-hexylthiophene)-based organic thin-film transistors upon blending with poly(2-(2-acetoxyacetyl)ethyl methacrylate). *RSC Advances*, **2016**, 6, 16540-16547	3.7	5
86	Solid polymer electrolytes containing poly(ethylene glycol) and renewable cardanol moieties for all-solid-state rechargeable lithium batteries. *Polymer*, **2016**, 99, 704-712	3.9	27

85	High-performance reverse osmosis nanocomposite membranes containing the mixture of carbon nanotubes and graphene oxides. *Journal of Materials Chemistry A*, **2015**, 3, 6798-6809	13	104
84	Hybrid ionogel electrolytes for high temperature lithium batteries. *Journal of Materials Chemistry A*, **2015**, 3, 2226-2233	13	64
83	Poly(arlyene ether sulfone) based semi-interpenetrating polymer network membranes containing cross-linked poly(vinyl phosphonic acid) chains for fuel cell applications at high temperature and low humidity conditions. *Journal of Power Sources*, **2015**, 293, 539-547	8.9	31
82	Organic/inorganic composite membranes comprising of sulfonated Poly(arylene ether sulfone) and core□shell silica particles having acidic and basic polymer shells. *Polymer*, **2015**, 71, 70-81	3.9	26
81	Extremely Durable, Flexible Supercapacitors with Greatly Improved Performance at High Temperatures. *ACS Nano*, **2015**, 9, 8569-77	16.7	87
80	Liquid crystal alignment behavior on sulfonated poly(arylene ether sulfone) films. *RSC Advances*, **2015**, 5, 64031-64036	3.7	5
79	Effect of antioxidant grafted graphene oxides on the mechanical and thermal properties of polyketone composites. *European Polymer Journal*, **2015**, 69, 156-167	5.2	36
78	Liquid crystal alignment behavior on transparent cellulose films. *RSC Advances*, **2015**, 5, 38654-38659	3.7	4
77	Polymer composite electrolytes having core-shell silica fillers with anion-trapping boron moiety in the shell layer for all-solid-state lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 7690-701	9.5	54
76	Ion conduction behaviour in chemically crosslinked hybrid ionogels: effect of free-dangling oligoethyleneoxides. *RSC Advances*, **2015**, 5, 94241-94247	3.7	15
75	Sulfonated poly(arylene ether sulfone) composite membranes having poly(2,5-benzimidazole)-grafted graphene oxide for fuel cell applications. *Journal of Materials Chemistry A*, **2015**, 3, 20595-20606	13	84
74	Polyphenol/FeIII Complex Coated Membranes Having Multifunctional Properties Prepared by a One-Step Fast Assembly. *Advanced Materials Interfaces*, **2015**, 2, 1500298	4.6	81
73	Solid Polymer Electrolytes Based on Functionalized Tannic Acids from Natural Resources for All-Solid-State Lithium-Ion Batteries. *ChemSusChem*, **2015**, 8, 4133-8	8.3	27
72	Photoalignment behaviour on polystyrene films containing chalcone moieties. *Liquid Crystals*, **2015**, 42, 189-197	2.3	17
71	Cross-Linked Sulfonated Poly(arylene ether sulfone) Membranes Formed by in Situ Casting and Click Reaction for Applications in Fuel Cells. *Macromolecules*, **2015**, 48, 1104-1114	5.5	79
70	Liquid crystal alignment behaviours on poly(methyl methacrylate) having polyhedral oligomeric silsesquioxane groups. *Liquid Crystals*, **2015**, 42, 32-40	2.3	14
69	Biocompatible Ag nanoparticle-embedded poly(2-hydroxyethyl methacrylate) derivative films with bacterial adhesion-resistant and antibacterial properties. *Macromolecular Research*, **2014**, 22, 337-343	1.9	8
68	Synthesis and properties of organic/inorganic hybrid branched-graft copolymers and their application to solid-state electrolytes for high-temperature lithium-ion batteries. *Polymer Chemistry*, **2014**, 5, 3432-3442	4.9	51

67	Novel polysilsesquioxane hybrid polymer electrolytes for lithium ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 1277-1283	13	48
66	Mussel-inspired dopamine- and plant-based cardanol-containing polymer coatings for multifunctional filtration membranes. *ACS Applied Materials & Interfaces*, **2014**, 6, 21297-307	9.5	64
65	Synthesis and characterization of self-cross-linkable and bactericidal methacrylate polymers having renewable cardanol moieties for surface coating applications. *RSC Advances*, **2014**, 4, 41195-41203	3.7	31
64	The improvement of antibiofouling properties of a reverse osmosis membrane by oxidized CNTs. *RSC Advances*, **2014**, 4, 32802	3.7	60
63	Semi-interpenetrating network electrolyte membranes based on sulfonated poly(arylene ether sulfone) for fuel cells at high temperature and low humidity conditions. *Electrochemistry Communications*, **2014**, 48, 44-48	5.1	20
62	Novel composite polymer electrolytes containing poly(ethylene glycol)-grafted graphene oxide for all-solid-state lithium-ion battery applications. *Journal of Materials Chemistry A*, **2014**, 2, 13873-13883	13	107
61	Healable properties of polymethacrylate derivatives having photo crosslinkable cinnamoyl side groups with surface hardness control **2014**, 11, 455-459		9
60	Preparation of organic/inorganic hybrid semi-interpenetrating network polymer electrolytes based on poly(ethylene oxide-co-ethylene carbonate) for all-solid-state lithium batteries at elevated temperatures. *Polymer*, **2014**, 55, 2799-2808	3.9	63
59	High-performance reverse osmosis CNT/polyamide nanocomposite membrane by controlled interfacial interactions. *ACS Applied Materials & Interfaces*, **2014**, 6, 2819-29	9.5	222
58	Improved strength and toughness of polyketone composites using extremely small amount of polyamide 6 grafted graphene oxides. *Carbon*, **2014**, 77, 366-378	10.4	62
57	Thermo-responsive copolymers with ionic group as novel draw solutes for forward osmosis processes. *Macromolecular Research*, **2014**, 22, 963-970	1.9	26
56	Photo-cross-linkable star-shaped polymers with poly(ethylene glycol) and renewable cardanol side groups: synthesis, characterization, and application to antifouling coatings for filtration membranes. *Polymer Chemistry*, **2013**, 4, 5065	4.9	43
55	Bio- and oil-fouling resistance of ultrafiltration membranes controlled by star-shaped block and random copolymer coatings. *RSC Advances*, **2013**, 3, 18071	3.7	25
54	Highly durable polymer electrolyte membranes at elevated temperature: Cross-linked copolymer structure consisting of poly(benzoxazine) and poly(benzimidazole). *Journal of Power Sources*, **2013**, 226, 346-353	8.9	40
53	Preparation of solid-state composite electrolytes based on organic/inorganic hybrid star-shaped polymer and PEG-functionalized POSS for all-solid-state lithium battery applications. *Polymer*, **2013**, 54, 5812-5820	3.9	79
52	Liquid crystal alignment properties of poly(styrenesulphonate)/alkyltrimethylammonium complexes. *Liquid Crystals*, **2013**, 40, 492-498	2.3	3
51	Design and Synthesis of Cross-Linked Copolymer Membranes Based on Poly(benzoxazine) and Polybenzimidazole and Their Application to an Electrolyte Membrane for a High-Temperature PEM Fuel Cell. *Polymers*, **2013**, 5, 77-111	4.5	36
50	Silver-perfluorodecanethiolate complexes having superhydrophobic, antifouling, antibacterial properties. *Journal of Colloid and Interface Science*, **2012**, 366, 64-69	9.3	50

49	Liquid Crystalline Polythiophenes With Amphiphilic Side Chains. *Macromolecular Chemistry and Physics*, **2012**, 213, 285-292	2.6	5
48	Structural analysis of high molecular weight PMSQs and their related properties for interlayer dielectric (ILD) application. *Macromolecular Research*, **2012**, 20, 1131-1136	1.9	7
47	Durable cross-linked copolymer membranes based on poly(benzoxazine) and poly(2,5-benzimidazole) for use in fuel cells at elevated temperatures. *Journal of Materials Chemistry*, **2012**, 22, 7194		48
46	Poly[2,2?-(m-phenylene)-5,5?-bibenzimidazole] and poly[6-fluoro-3-(pyridin-2-yl)-3,4-dihydro-2H-benzoxazine] based polymer electrolyte membranes for fuel cells at elevated temperature. *Macromolecular Research*, **2012**, 20, 1181-1190	1.9	16
45	The increase of antifouling properties of ultrafiltration membrane coated by star-shaped polymers. *Journal of Materials Chemistry*, **2012**, 22, 8654		74
44	Organic/Inorganic Hybrid Block Copolymer Electrolytes with Nanoscale Ion-Conducting Channels for Lithium Ion Batteries. *Macromolecules*, **2012**, 45, 9347-9356	5.5	93
43	Dual effective organic/inorganic hybrid star-shaped polymer coatings on ultrafiltration membrane for bio- and oil-fouling resistance. *ACS Applied Materials & Interfaces*, **2012**, 4, 5898-906	9.5	60
42	Star-shaped polymers having side chain poss groups for solid polymer electrolytes; synthesis, thermal behavior, dimensional stability, and ionic conductivity. *Journal of Polymer Science Part A*, **2012**, 50, 3618-3627	2.5	52
41	Preparation of acid-cleavable branched polymers for argon fluoride photoresists via reversible addition–fragmentation chain-transfer polymerization. *Journal of Applied Polymer Science*, **2012**, 125, 344-352	2.9	8
40	Cross-Linked Benzoxazine–Benzimidazole Copolymer Electrolyte Membranes for Fuel Cells at Elevated Temperature. *Macromolecules*, **2012**, 45, 1438-1446	5.5	110
39	Poly(1-oxotrimethylene) fibers prepared by different draw ratios for the tire cord application. *Macromolecular Research*, **2012**, 20, 732-738	1.9	5
38	Molecular surface structure of comb-like polyoxyethylene with alkyl sulfonyl side-chains studied by sum-frequency generation vibrational spectroscopy. *Liquid Crystals*, **2012**, 39, 323-331	2.3	
37	Synthesis of ArF photoresist polymer composed of three methacrylate monomers via reversible addition-fragmentation chain transfer (RAFT) polymerization. *Macromolecular Research*, **2011**, 19, 722-728	1.9	21
36	Synthesis and characterization of biocidal poly(oxyethylene)s having N-halamine side groups. *Macromolecular Research*, **2011**, 19, 1227-1232	1.9	10
35	Control of liquid crystal alignment on polystyrene nanorod arrays. *Liquid Crystals*, **2011**, 38, 1131-1136	2.3	4
34	Effect of n-alkyl and sulfonyl groups on the wetting properties of comblike poly(oxyethylene)s and stick-slip behavior. *Langmuir*, **2011**, 27, 1811-20	4	24
33	Cross-linked poly(2,5-benzimidazole) consisting of wholly aromatic groups for high-temperature PEM fuel cell applications. *Journal of Membrane Science*, **2011**, 373, 80-88	9.6	50
32	Surface properties and liquid crystal alignment behavior of poly(2-hydroxyethyl methacrylate) derivatives with alkyl ester side chains. *Journal of Colloid and Interface Science*, **2011**, 360, 623-32	9.3	10

31	Physical Properties of Polymethylsilsesquioxane with UV-Curable Group for Low-Loss Optical Materials. *Molecular Crystals and Liquid Crystals*, **2010**, 520, 215/[491]-222/[498]	0.5	
30	Ion beam induced liquid crystal alignment properties of 4-alkylphenoxymethyl-substituted polystyrenes. *Liquid Crystals*, **2010**, 37, 179-187	2.3	8
29	Molecular Structure and Surface Properties of Comb-Like Fluorinated Poly(oxyethylene)s Having Different Content of Fluoroalkyl Side Group. *Macromolecules*, **2010**, 43, 10481-10489	5.5	16
28	Generation behavior of elctricity in a microbial fuel cell. *Korean Journal of Chemical Engineering*, **2010**, 27, 546-550	2.8	1
27	Liquid crystal alignment properties of polystyrene derivatives containing fluorinated side groups. *Macromolecular Research*, **2010**, 18, 78-85	1.9	4
26	Synthesis and properties of polysiloxanes containing polyhedral oligomeric silsesquioxane (POSS) and oligo (ethylene oxide) groups in the side chains. *Macromolecular Research*, **2010**, 18, 1021-1029	1.9	19
25	Liquid Crystal Alignment Properties of Poly-(3-thiopheneacetate)/Dialkyldimethylammonium Complexes. *Macromolecular Chemistry and Physics*, **2010**, 211, 353-358	2.6	8
24	Preparation of Polybenzimidazole/Lithium Hydrazinium Sulfate Composite Membranes for High-Temperature Fuel Cell Applications. *Macromolecular Chemistry and Physics*, **2010**, 211, 1322-1329	2.6	9
23	Comb-like polymer blends of poly(oxyethylene)s with CH3-terminated and CF3-terminated alkylsulfonylmethyl side chains: effect of terminal CF3 moiety on the surface properties of the blends. *Journal of Colloid and Interface Science*, **2010**, 343, 115-24	9.3	15
22	Inhibition of bacterial adhesion on well ordered comb-like polymer surfaces. *Colloids and Surfaces B: Biointerfaces*, **2010**, 77, 191-9	6	27
21	Liquid crystal alignment properties of n-alkylsulphonylmethyl-substituted polyoxyethylenes. *Liquid Crystals*, **2009**, 36, 855-864	2.3	13
20	4-Alkylphenoxymethyl-Substituted Polystyrenes for Liquid Crystal Alignment Layers. *Macromolecular Chemistry and Physics*, **2009**, 210, 926-935	2.6	25
19	Self-Assembly Behavior and Optical Properties of Poly(3-thiopheneacetate)/Dialkyldimethylammonium Complexes. *Macromolecular Chemistry and Physics*, **2009**, 210, 1510-1518	2.6	7
18	Synthesis of a photo-patternable cross-linked epoxy system containing photodegradable carbonate units for deep UV lithography. *Journal of Applied Polymer Science*, **2009**, 114, 2093-2100	2.9	14
17	Solubilization and polymer analogous reactions of polyepichlorohydrin in ionic liquids. *Journal of Applied Polymer Science*, **2009**, 114, 132-138	2.9	5
16	The effect of phenoxymethyl side groups on the liquid crystal alignment behavior of polystyrene derivatives. *Macromolecular Research*, **2009**, 17, 506-515	1.9	3
15	Liquid crystal alignment property of n-alkylthiomethyl- or n-alkylsulfonylmethyl-substituted polystyrenes. *Polymers for Advanced Technologies*, **2009**, 20, 878-886	3.2	24
14	Polybenzimidazole containing benzimidazole side groups for high-temperature fuel cell applications. *Polymer*, **2009**, 50, 3495-3502	3.9	76

13	Comb-Like Fluorinated Polystyrenes Having Different Side Chain Interconnecting Groups. *Macromolecules*, **2009**, 42, 3333-3339	5.5	30
12	Liquid crystal alignment properties of 2-naphthoxymethyl-substituted polystyrenes. *Liquid Crystals*, **2009**, 36, 479-485	2.3	4
11	Preparation of polymer composites containing gold nanonetworks using an amphiphilic poly(oxyethylene) brush. *Macromolecular Research*, **2008**, 16, 711-716	1.9	8
10	Polysiloxanes containing alkyl side groups: synthesis and mesomorphic behavior. *Macromolecular Research*, **2008**, 16, 36-44	1.9	25
9	In-situ nanofabrication via electrohydrodynamic jetting of countercharged nozzles. *Polymer Bulletin* , **2008**, 61, 521-528	2.4	23
8	2-Naphthoxymethyl-Substituted Polystyrenes for Homeotropic Liquid-Crystal Alignment Layers. *Macromolecular Chemistry and Physics*, **2008**, 209, 1900-1908	2.6	15
7	Copolymers of Poly(2,5-benzimidazole) and Poly[2,2?-(p-phenylene)-5,5?-bibenzimidazole] for High-Temperature Fuel Cell Applications. *Macromolecular Materials and Engineering*, **2008**, 293, 914-921	3.9	20
6	Synthesis and properties of poly(aryl ether benzimidazole) copolymers for high-temperature fuel cell membranes. *Journal of Membrane Science*, **2008**, 323, 362-370	9.6	61
5	Synthesis and Characterization of Poly[oxy(□trifluoroalkylsulfonylmethyl)ethylene]s: Effect of Terminal CF3 and CH3 Moieties on the Wettability of the Comb-Like Polymers. *Macromolecular Chemistry and Physics*, **2007**, 208, 1011-1019	2.6	20
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