Jong-Chan Lee

List of Publications by Year
in descending order

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		53660	85405
160	6,144	45	71
papers	citations	h-index	g-index

163	163	163	6933
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	15.6	282
2	High-Performance Reverse Osmosis CNT/Polyamide Nanocomposite Membrane by Controlled Interfacial Interactions. ACS Applied Materials & Interfaces, 2014, 6, 2819-2829.	4.0	261
3	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.	4.1	195
4	Dual Roles of Graphene Oxide To Attenuate Inflammation and Elicit Timely Polarization of Macrophage Phenotypes for Cardiac Repair. ACS Nano, 2018, 12, 1959-1977.	7.3	184
5	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.	4.1	134
6	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.	5.2	133
7	High-performance reverse osmosis nanocomposite membranes containing the mixture of carbon nanotubes and graphene oxides. Journal of Materials Chemistry A, 2015, 3, 6798-6809.	5.2	123
8	Cross-Linked Benzoxazineâ€“Benzimidazole Copolymer Electrolyte Membranes for Fuel Cells at Elevated Temperature. Macromolecules, 2012, 45, 1438-1446.	2.2	122
9	Extremely Durable, Flexible Supercapacitors with Greatly Improved Performance at High Temperatures. ACS Nano, 2015, 9, 8569-8577.	7.3	113
10	Organic/Inorganic Hybrid Block Copolymer Electrolytes with Nanoscale Ion-Conducting Channels for Lithium Ion Batteries. Macromolecules, 2012, 45, 9347-9356.	2.2	108
11	Highly proton conductive, dense polybenzimidazole membranes with low permeability to vanadium and enhanced H₂SO₄absorption capability for use in vanadium redox flow batteries. Journal of Materials Chemistry A, 2016, 4, 14342-14355.	5.2	108
12	Polyphenol/Fe^{III} Complex Coated Membranes Having Multifunctional Properties Prepared by a Oneâ€Step Fast Assembly. Advanced Materials Interfaces, 2015, 2, 1500298.	1.9	102
13	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.	5.2	100
14	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.	4.1	98
15	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.	2.2	92
16	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.	1.8	91
17	High-temperature fuel cell membranes based on mechanically stable para-ordered polybenzimidazole prepared by direct casting. Journal of Power Sources, 2007, 172, 172-179.	4.0	86
18	Mussel-Inspired Dopamine- and Plant-Based Cardanol-Containing Polymer Coatings for Multifunctional Filtration Membranes. ACS Applied Materials & Interfaces, 2014, 6, 21297-21307.	4.0	82

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19	Polybenzimidazole containing benzimidazole side groups for high-temperature fuel cell applications. Polymer, 2009, 50, 3495-3502.	1.8	81
20	The increase of antifouling properties of ultrafiltration membrane coated by star-shaped polymers. Journal of Materials Chemistry, 2012, 22, 8654.	6.7	81
21	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.	1.8	77
22	Highly Carboxylate-Functionalized Polymers of Intrinsic Microporosity for CO₂-Selective Polymer Membranes. Macromolecules, 2017, 50, 8019-8027.	2.2	76
23	Gel Polymer Electrolytes Containing Anion-Trapping Boron Moieties for Lithium-Ion Battery Applications. ACS Applied Materials & Interfaces, 2016, 8, 27740-27752.	4.0	75
24	The improvement of antibiofouling properties of a reverse osmosis membrane by oxidized CNTs. RSC Advances, 2014, 4, 32802.	1.7	74
25	Improved strength and toughness of polyketone composites using extremely small amount of polyamide 6 grafted graphene oxides. Carbon, 2014, 77, 366-378.	5.4	73
26	Poly(vinyl alcohol) nanocomposites containing reduced graphene oxide coated with tannic acid for humidity sensor. Polymer, 2016, 84, 89-98.	1.8	73
27	Hybrid ionogel electrolytes for high temperature lithium batteries. Journal of Materials Chemistry A, 2015, 3, 2226-2233.	5.2	72
28	Polymer Composite Electrolytes Having Coreâ€“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, 7690-7701.	4.0	68
29	Synthesis and properties of poly(aryl ether benzimidazole) copolymers for high-temperature fuel cell membranes. Journal of Membrane Science, 2008, 323, 362-370.	4.1	67
30	Gel Polymer Electrolytes Based on Polymerizable Lithium Salt and Poly(ethylene glycol) for Lithium Battery Applications. ACS Applied Materials & Interfaces, 2019, 11, 29718-29724.	4.0	67
31	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.	1.9	64
32	Dual Effective Organic/Inorganic Hybrid Star-Shaped Polymer Coatings on Ultrafiltration Membrane for Bio- and Oil-Fouling Resistance. ACS Applied Materials & Interfaces, 2012, 4, 5898-5906.	4.0	63
33	Starâ€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	63
34	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.	4.1	60
35	High-performance proton-exchange membrane water electrolysis using a sulfonated poly(arylene) Tj ETQq1 1 0.784314 rgBT /Overloc	4.1	59
36	Novel polysilsesquioxane hybrid polymer electrolytes for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 1277-1283.	5.2	58

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37	Highly sulfonated polymer-grafted graphene oxide composite membranes for proton exchange membrane fuel cells. Journal of Industrial and Engineering Chemistry, 2019, 74, 223-232.	2.9	58
38	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.	2.9	58
39	Silver-perfluorodecanethiolate complexes having superhydrophobic, antifouling, antibacterial properties. Journal of Colloid and Interface Science, 2012, 366, 64-69.	5.0	56
40	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.	6.7	54
41	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.	4.1	53
42	All-solid-state lithium metal battery with solid polymer electrolytes based on polysiloxane crosslinked by modified natural gallic acid. Polymer, 2017, 122, 222-231.	1.8	53
43	Dendrite Suppression by Synergistic Combination of Solid Polymer Electrolyte Crosslinked with Natural Terpenes and Lithiumâ€Powder Anode for Lithiumâ€Metal Batteries. ChemSusChem, 2017, 10, 2274-2283.	3.6	51
44	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.	1.9	49
45	Effect of antioxidant grafted graphene oxides on the mechanical and thermal properties of polyketone composites. European Polymer Journal, 2015, 69, 156-167.	2.6	47
46	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.	4.1	47
47	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.	4.0	43
48	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.	4.0	43
49	Comb-shaped polysulfones containing sulfonated polytriazole side chains for proton exchange membranes. Journal of Membrane Science, 2018, 554, 232-243.	4.1	41
50	Universal perpendicular orientation of block copolymer microdomains using a filtered plasma. Nature Communications, 2019, 10, 2912.	5.8	41
51	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.	4.0	41
52	A Carbonaceous Membrane based on a Polymer of Intrinsic Microporosity (PIM-1) for Water Treatment. Scientific Reports, 2016, 6, 36078.	1.6	39
53	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.	4.0	39
54	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.	4.1	39

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55	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.	2.0	38
56	Organic/inorganic composite membranes comprising of sulfonated Poly(arylene ether sulfone) and coreâ€“shell silica particles having acidic and basic polymer shells. Polymer, 2015, 71, 70-81.	1.8	38
57	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.	4.1	37
58	Protonâ€Conducting Zirconium Pyrophosphate/Poly(2,5â€benzimidazole) Composite Membranes Prepared by a PPA Direct Casting Method. Macromolecular Chemistry and Physics, 2007, 208, 2293-2302.	1.1	36
59	Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals. Advanced Materials, 2016, 28, 9301-9307.	11.1	36
60	Environmentally Sustainable Aluminum-Coordinated Poly(tetrahydroxybenzoquinone) as a Promising Cathode for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 3479-3486.	4.0	36
61	Comb-Like Fluorinated Polystyrenes Having Different Side Chain Interconnecting Groups. Macromolecules, 2009, 42, 3333-3339.	2.2	35
62	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.	4.0	35
63	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.	1.7	34
64	Solid Polymer Electrolytes Based on Functionalized Tannic Acids from Natural Resources for Allâ€Solidâ€State Lithiumâ€Ion Batteries. ChemSusChem, 2015, 8, 4133-4138.	3.6	34
65	Graphene oxide reinforced hydrogels for osteogenic differentiation of human adipose-derived stem cells. RSC Advances, 2017, 7, 20779-20788.	1.7	34
66	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.	3.8	33
67	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.	2.4	32
68	Sustainable Ligninâ€Derived Crossâ€Linked Graft Polymers as Electrolyte and Binder Materials for Lithium Metal Batteries. ChemSusChem, 2020, 13, 2642-2649.	3.6	32
69	Multifunctional Mesoporous Ionic Gels and Scaffolds Derived from Polyhedral Oligomeric Silsesquioxanes. ACS Applied Materials & Interfaces, 2017, 9, 3616-3623.	4.0	31
70	PIM-1-based carbonâ€“sulfur composites for sodiumâ€“sulfur batteries that operate without the shuttle effect. Journal of Materials Chemistry A, 2020, 8, 3580-3585.	5.2	31
71	Thermo-responsive copolymers with ionic group as novel draw solutes for forward osmosis processes. Macromolecular Research, 2014, 22, 963-970.	1.0	30
72	Liquid crystal alignment property of nâ€alkylthiomethylâ€or nâ€alkylsulfonylmethylâ€substituted polystyrenes. Polymers for Advanced Technologies, 2009, 20, 878-886.	1.6	28

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73	Inhibition of bacterial adhesion on well ordered comb-like polymer surfaces. Colloids and Surfaces B: Biointerfaces, 2010, 77, 191-199.	2.5	28
74	Solid polymer electrolytes containing poly(ethylene glycol) and renewable cardanol moieties for all-solid-state rechargeable lithium batteries. Polymer, 2016, 99, 704-712.	1.8	28
75	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.	1.8	28
76	Enhanced, Perpendicular Liquidâ€Crystal Alignment on Rubbed Films of a Coumarinâ€Containing Polystyrene. Macromolecular Chemistry and Physics, 2007, 208, 1853-1861.	1.1	27
77	Polysiloxanes containing alkyl side groups: synthesis and mesomorphic behavior. Macromolecular Research, 2008, 16, 36-44.	1.0	27
78	In-situ nanofabrication via electrohydrodynamic jetting of countercharged nozzles. Polymer Bulletin, 2008, 61, 521-528.	1.7	27
79	Effect of n-Alkyl and Sulfonyl Groups on the Wetting Properties of Comblike Poly(oxyethylene)s and Stickâ^'Slip Behavior. Langmuir, 2011, 27, 1811-1820.	1.6	27
80	Synthesis of ArF photoresist polymer composed of three methacrylate monomers via reversible addition-fragmentation chain transfer (RAFT) polymerization. Macromolecular Research, 2011, 19, 722-728.	1.0	27
81	4â€Alkylphenoxymethylâ€Substituted Polystyrenes for Liquid Crystal Alignment Layers. Macromolecular Chemistry and Physics, 2009, 210, 926-935.	1.1	26
82	Bio- and oil-fouling resistance of ultrafiltration membranes controlled by star-shaped block and random copolymer coatings. RSC Advances, 2013, 3, 18071.	1.7	26
83	Coaxial struts and microfractured structures of compressible thermoelectric foams for self-powered pressure sensors. Nanoscale, 2018, 10, 18370-18377.	2.8	23
84	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.	4.1	23
85	Copolymers of Poly(2,5â€benzimidazole) and Poly[2,2â€²â€(pâ€phenylene)â€5,5â€²â€bibenzimidazole] for Highâ€Temperature Fuel Cell Applications. Macromolecular Materials and Engineering, 2008, 293, 914-921.	1.7	22
86	Synthesis and Characterization of Poly[oxy(ï‰,ï‰,ï‰-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.	1.1	21
87	Semi-interpenetrating network electrolyte membranes based on sulfonated poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Communications, 2014, 48, 44-48.	2.3	21
88	Polysulfone based ultrafiltration membranes with dopamine and nisin moieties showing antifouling and antimicrobial properties. Separation and Purification Technology, 2018, 202, 9-20.	3.9	21
89	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.	2.9	20
90	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.	1.0	19

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91	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, 115-124.	5.0	19
92	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.	5.2	19
93	Synthesis of a photoâ€patternable crossâ€linked epoxy system containing photodegradable carbonate units for deep UV lithography. Journal of Applied Polymer Science, 2009, 114, 2093-2100.	1.3	18
94	Molecular Structure and Surface Properties of Comb-Like Fluorinated Poly(oxyethylene)s Having Different Content of Fluoroalkyl Side Group. Macromolecules, 2010, 43, 10481-10489.	2.2	18
95	Poly[2,2â€²-(m-phenylene)-5,5â€²-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.	1.0	18
96	Photoalignment behaviour on polystyrene films containing chalcone moieties. Liquid Crystals, 2015, 42, 189-197.	0.9	18
97	Liquid crystal alignment behaviours on poly(methyl methacrylate) having polyhedral oligomeric silsesquioxane groups. Liquid Crystals, 2015, 42, 32-40.	0.9	18
98	2â€Naphthoxymethylâ€Substituted Polystyrenes for Homeotropic Liquidâ€Crystal Alignment Layers. Macromolecular Chemistry and Physics, 2008, 209, 1900-1908.	1.1	17
99	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.	2.6	17
100	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.	2.6	16
101	Quasi-Solid-State Rechargeable Liâ€“O₂ Batteries with High Safety and Long Cycle Life at Room Temperature. ACS Applied Materials & Interfaces, 2018, 10, 15634-15641.	4.0	16
102	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.	2.5	16
103	Ion conduction behaviour in chemically crosslinked hybrid ionogels: effect of free-dangling oligoethyleneoxides. RSC Advances, 2015, 5, 94241-94247.	1.7	15
104	Antibacterial and biocompatible ABA-triblock copolymers containing perfluoropolyether and plant-based cardanol for versatile coating applications. RSC Advances, 2017, 7, 38091-38099.	1.7	14
105	Liquid crystal alignment properties of n-alkylsulphonylmethyl-substituted polyoxyethylenes. Liquid Crystals, 2009, 36, 855-864.	0.9	13
106	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.	4.1	13
107	Preparation of 3â€pentadecylphenolâ€modified cellulose nanocrystal and its application as a filler to polypropylene nanocomposites having improved antibacterial and mechanical properties. Journal of Applied Polymer Science, 2022, 139, 51848.	1.3	13
108	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, 623-632.	5.0	12

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109	Healable properties of polymethacrylate derivatives having photo crosslinkable cinnamoyl side groups with surface hardness control. Journal of Coatings Technology Research, 2014, 11, 455-459.	1.2	12
110	Synthesis of high molecular weight polybenzimidazole using a highly pure monomer under mild conditions. Polymer International, 2017, 66, 1812-1818.	1.6	12
111	Solid polymer electrolytes based on polysiloxane with anion-trapping boron moieties for all-solid-state lithium metal batteries. Polymer, 2022, 240, 124517.	1.8	12
112	Preparation of Polybenzimidazole/Lithium Hydrazinium Sulfate Composite Membranes for Highâ€Temperature Fuel Cell Applications. Macromolecular Chemistry and Physics, 2010, 211, 1322-1329.	1.1	11
113	Synthesis and characterization of biocidal poly(oxyethylene)s having N-halamine side groups. Macromolecular Research, 2011, 19, 1227-1232.	1.0	11
114	Poly(vinylidene fluoride)-based film with strong antimicrobial activity. Applied Surface Science, 2021, 562, 150181.	3.1	11
115	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.	3.9	11
116	Preparation of polymer composites containing gold nanonetworks using an amphiphilic poly(oxyethylene) brush. Macromolecular Research, 2008, 16, 711-716.	1.0	9
117	Liquid Crystal Alignment Properties of Polyâ€(3â€thiopheneacetate)/Dialkyldimethylammonium Complexes. Macromolecular Chemistry and Physics, 2010, 211, 353-358.	1.1	9
118	Ion beam induced liquid crystal alignment properties of 4-alkylphenoxymethyl-substituted polystyrenes. Liquid Crystals, 2010, 37, 179-187.	0.9	8
119	Structural analysis of high molecular weight PMSQs and their related properties for interlayer dielectric (ILD) application. Macromolecular Research, 2012, 20, 1131-1136.	1.0	8
120	Preparation of acidâ€cleavable branched polymers for argon fluoride photoresists via reversible additionâ€“fragmentation chainâ€transfer polymerization. Journal of Applied Polymer Science, 2012, 125, 344-352.	1.3	8
121	Biocompatible Ag nanoparticle-embedded poly(2-hydroxyethyl methacrylate) derivative films with bacterial adhesion-resistant and antibacterial properties. Macromolecular Research, 2014, 22, 337-343.	1.0	8
122	Preparation of Poly(phenylene sulfide)/Nylon 6 Grafted Graphene Oxide Nanocomposites with Enhanced Mechanical and Thermal Properties. Macromolecular Research, 2020, 28, 241-248.	1.0	8
123	Endâ€group crossâ€linked membranes based on highly sulfonated poly(arylene ether sulfone) with vinyl functionalized graphene oxide as a crossâ€linker and a filler for proton exchange membrane fuel cell application. Journal of Polymer Science, 2020, 58, 3456-3466.	2.0	8
124	Lithium dendrite suppression by single-ion conducting gel polymer electrolyte cross-linked with graphene oxide. Journal of Power Sources, 2022, 534, 231424.	4.0	8
125	Selfâ€Assembly Behavior and Optical Properties of Poly(3â€thiopheneacetate)/Dialkyldimethylammonium Complexes. Macromolecular Chemistry and Physics, 2009, 210, 1510-1518.	1.1	7
126	Poly(1-oxotrimethylene) fibers prepared by different draw ratios for the tire cord application. Macromolecular Research, 2012, 20, 732-738.	1.0	7

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127	The effect of electron density in furan pendant group on thermal-reversible Dielsâ€“Alder reaction based self-healing properties of polymethacrylate derivatives. RSC Advances, 2018, 8, 39432-39443.	1.7	7
128	Solubilization and polymer analogous reactions of polyepichlorohydrin in ionic liquids. Journal of Applied Polymer Science, 2009, 114, 132-138.	1.3	6
129	Ultra-hydrophobic sticky polymer surfaces formed by water-induced surface deformation. Journal of Colloid and Interface Science, 2017, 490, 84-90.	5.0	6
130	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.	2.9	6
131	Preparation of a novel phosphorusâ€“nitrogen flame retardant and its effects on the flame retardancy and physical properties of polyketone. Journal of Applied Polymer Science, 2020, 137, 49199.	1.3	6
132	Synthesis of polybenzimidazoles having improved processability by introducing two and three ether groups in a repeating unit. European Polymer Journal, 2022, 162, 110900.	2.6	6
133	Liquid crystal alignment properties of polystyrene derivatives containing fluorinated side groups. Macromolecular Research, 2010, 18, 78-85.	1.0	5
134	Liquid Crystalline Polythiophenes With Amphiphilic Side Chains. Macromolecular Chemistry and Physics, 2012, 213, 285-292.	1.1	5
135	Liquid crystal alignment properties of poly(styrenesulphonate)/alkyltrimethylammonium complexes. Liquid Crystals, 2013, 40, 492-498.	0.9	5
136	Liquid crystal alignment behavior on sulfonated poly(arylene ether sulfone) films. RSC Advances, 2015, 5, 64031-64036.	1.7	5
137	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.	1.7	5
138	Fluorinated Methacrylate-Grafted P(VDF-CTFE) and Albumin Layers for Reducing Fibrinogen Adsorption. ACS Applied Polymer Materials, 2020, 2, 178-188.	2.0	5
139	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.	1.7	5
140	Improving Physical Properties of Polypropylene Nanocomposites by a Natural Resource-Based Bottom-up Graphene Oxide Filler. Macromolecular Research, 2021, 29, 487-493.	1.0	5
141	Liquid crystal alignment properties of 2-naphthoxymethyl-substituted polystyrenes. Liquid Crystals, 2009, 36, 479-485.	0.9	4
142	Control of liquid crystal alignment on polystyrene nanorod arrays. Liquid Crystals, 2011, 38, 1131-1136.	0.9	4
143	Liquid crystal alignment behavior on transparent cellulose films. RSC Advances, 2015, 5, 38654-38659.	1.7	4
144	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.	2.9	4

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145	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.	2.0	4
146	The effect of phenoxymethyl side groups on the liquid crystal alignment behavior of polystyrene derivatives. Macromolecular Research, 2009, 17, 506-515.	1.0	3
147	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.	1.7	3
148	Carbonization of Carboxylateâ€Functionalized Polymers of Intrinsic Microporosity for Water Treatment. Macromolecular Chemistry and Physics, 2020, 221, 1900532.	1.1	3
149	Hybrid Ionogel Electrolytes Derived from Polyhedral Oligomeric Silsesquioxane for Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2017, 17, 3101-3104.	0.9	2
150	Cationic polymer-grafted graphene oxide/CNT cathode-coating material for lithiumâ€“sulfur batteries. RSC Advances, 2021, 11, 25305-25313.	1.7	2
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