

# Jong-Chan Lee

## List of Publications by Citations

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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.

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 | High-performance reverse osmosis CNT/polyamide nanocomposite membrane by controlled interfacial interactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2819-29   | 9.5  | 222       |
| 155 | 2D boron nitride nanoflakes as a multifunctional additive in gel polymer electrolytes for safe, long cycle life and high rate lithium metal batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1911-1916   | 35.4 | 204       |
| 154 | Cross-linked graphene oxide membrane having high ion selectivity and antibacterial activity prepared using tannic acid-functionalized graphene oxide and polyethyleneimine. <i>Journal of Membrane Science</i> , <b>2017</b> , 521, 1-9  | 9.6  | 151       |
| 153 | Dual Roles of Graphene Oxide To Attenuate Inflammation and Elicit Timely Polarization of Macrophage Phenotypes for Cardiac Repair. <i>ACS Nano</i> , <b>2018</b> , 12, 1959-1977   | 16.7 | 116       |
| 152 | Cross-Linked Benzoxazine-Benzimidazole Copolymer Electrolyte Membranes for Fuel Cells at Elevated Temperature. <i>Macromolecules</i> , <b>2012</b> , 45, 1438-1446   | 5.5  | 110       |
| 151 | Reverse osmosis nanocomposite membranes containing graphene oxides coated by tannic acid with chlorine-tolerant and antimicrobial properties. <i>Journal of Membrane Science</i> , <b>2016</b> , 514, 25-34  | 9.6  | 109       |
| 150 | Novel composite polymer electrolytes containing poly(ethylene glycol)-grafted graphene oxide for all-solid-state lithium-ion battery applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 13873-13883  | 13   | 107       |
| 149 | High-performance reverse osmosis nanocomposite membranes containing the mixture of carbon nanotubes and graphene oxides. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6798-6809  | 13   | 104       |
| 148 | Organic/Inorganic Hybrid Block Copolymer Electrolytes with Nanoscale Ion-Conducting Channels for Lithium Ion Batteries. <i>Macromolecules</i> , <b>2012</b> , 45, 9347-9356  | 5.5  | 93        |
| 147 | Highly proton conductive, dense polybenzimidazole membranes with low permeability to vanadium and enhanced H <sub>2</sub> SO <sub>4</sub> absorption capability for use in vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14342-14355 | 13   | 90        |
| 146 | Extremely Durable, Flexible Supercapacitors with Greatly Improved Performance at High Temperatures. <i>ACS Nano</i> , <b>2015</b> , 9, 8569-77   | 16.7 | 87        |
| 145 | Sulfonated poly(arylene ether sulfone) composite membranes having poly(2,5-benzimidazole)-grafted graphene oxide for fuel cell applications. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20595-20606  | 13   | 84        |
| 144 | Polyphenol/FeIII Complex Coated Membranes Having Multifunctional Properties Prepared by a One-Step Fast Assembly. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500298  | 4.6  | 81        |
| 143 | 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. <i>Polymer</i> , <b>2013</b> , 54, 5812-5820   | 3.9  | 79        |
| 142 | Cross-Linked Sulfonated Poly(arylene ether sulfone) Membranes Formed by in Situ Casting and Click Reaction for Applications in Fuel Cells. <i>Macromolecules</i> , <b>2015</b> , 48, 1104-1114   | 5.5  | 79        |
| 141 | Polybenzimidazole containing benzimidazole side groups for high-temperature fuel cell applications. <i>Polymer</i> , <b>2009</b> , 50, 3495-3502   | 3.9  | 76        |
| 140 | The increase of antifouling properties of ultrafiltration membrane coated by star-shaped polymers. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8654  |      | 74        |

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|-----|--|------|----|
| 139 | High-temperature fuel cell membranes based on mechanically stable para-ordered polybenzimidazole prepared by direct casting. <i>Journal of Power Sources</i> , <b>2007</b> , 172, 172-179  | 8.9  | 72 |
| 138 | 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. <i>Journal of Membrane Science</i> , <b>2017</b> , 525, 125-134 | 9.6  | 71 |
| 137 | Hybrid ionogel electrolytes for high temperature lithium batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2226-2233   | 13   | 64 |
| 136 | Mussel-inspired dopamine- and plant-based cardanol-containing polymer coatings for multifunctional filtration membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21297-307  | 9.5  | 64 |
| 135 | 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. <i>Polymer</i> , <b>2014</b> , 55, 2799-2808                          | 3.9  | 63 |
| 134 | Improved strength and toughness of polyketone composites using extremely small amount of polyamide 6 grafted graphene oxides. <i>Carbon</i> , <b>2014</b> , 77, 366-378  | 10.4 | 62 |
| 133 | Synthesis and properties of poly(aryl ether benzimidazole) copolymers for high-temperature fuel cell membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 323, 362-370  | 9.6  | 61 |
| 132 | Poly(vinyl alcohol) nanocomposites containing reduced graphene oxide coated with tannic acid for humidity sensor. <i>Polymer</i> , <b>2016</b> , 84, 89-98   | 3.9  | 60 |
| 131 | The improvement of antibiofouling properties of a reverse osmosis membrane by oxidized CNTs. <i>RSC Advances</i> , <b>2014</b> , 4, 32802  | 3.7  | 60 |
| 130 | Dual effective organic/inorganic hybrid star-shaped polymer coatings on ultrafiltration membrane for bio- and oil-fouling resistance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 5898-906  | 9.5  | 60 |
| 129 | Gel Polymer Electrolytes Containing Anion-Trapping Boron Moieties for Lithium-Ion Battery Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27740-27752   | 9.5  | 59 |
| 128 | Polymer composite electrolytes having core-shell silica fillers with anion-trapping boron moiety in the shell layer for all-solid-state lithium-ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7690-701   | 9.5  | 54 |
| 127 | Star-shaped polymers having side chain poss groups for solid polymer electrolytes; synthesis, thermal behavior, dimensional stability, and ionic conductivity. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 3618-3627  | 2.5  | 52 |
| 126 | Synthesis and properties of organic/inorganic hybrid branched-graft copolymers and their application to solid-state electrolytes for high-temperature lithium-ion batteries. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 3432-3442   | 4.9  | 51 |
| 125 | Silver-perfluorodecanethiolate complexes having superhydrophobic, antifouling, antibacterial properties. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 366, 64-69  | 9.3  | 50 |
| 124 | Cross-linked poly(2,5-benzimidazole) consisting of wholly aromatic groups for high-temperature PEM fuel cell applications. <i>Journal of Membrane Science</i> , <b>2011</b> , 373, 80-88   | 9.6  | 50 |
| 123 | Novel polysilsesquioxane hybrid polymer electrolytes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1277-1283   | 13   | 48 |
| 122 | Durable cross-linked copolymer membranes based on poly(benzoxazine) and poly(2,5-benzimidazole) for use in fuel cells at elevated temperatures. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 7194   |      | 48 |

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| 121 | Highly Carboxylate-Functionalized Polymers of Intrinsic Microporosity for CO <sub>2</sub> -Selective Polymer Membranes. <i>Macromolecules</i> , <b>2017</b> , 50, 8019-8027   | 5.5 | 45 |
| 120 | Highly sulfonated polymer-grafted graphene oxide composite membranes for proton exchange membrane fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 74, 223-232  | 6.3 | 43 |
| 119 | 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. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 5065                              | 4.9 | 43 |
| 118 | Gel Polymer Electrolytes Based on Polymerizable Lithium Salt and Poly(ethylene glycol) for Lithium Battery Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29718-29724  | 9.5 | 42 |
| 117 | Cross-linked highly sulfonated poly(arylene ether sulfone) membranes prepared by in-situ casting and thiol-ene click reaction for fuel cell application. <i>Journal of Membrane Science</i> , <b>2019</b> , 579, 70-78  | 9.6 | 41 |
| 116 | Highly durable polymer electrolyte membranes at elevated temperature: Cross-linked copolymer structure consisting of poly(benzoxazine) and poly(benzimidazole). <i>Journal of Power Sources</i> , <b>2013</b> , 226, 346-353  | 8.9 | 40 |
| 115 | All-solid-state lithium metal battery with solid polymer electrolytes based on polysiloxane crosslinked by modified natural gallic acid. <i>Polymer</i> , <b>2017</b> , 122, 222-231  | 3.9 | 39 |
| 114 | Dendrite Suppression by Synergistic Combination of Solid Polymer Electrolyte Crosslinked with Natural Terpenes and Lithium-Powder Anode for Lithium-Metal Batteries. <i>ChemSusChem</i> , <b>2017</b> , 10, 2274-2283   | 8.3 | 38 |
| 113 | Effect of antioxidant grafted graphene oxides on the mechanical and thermal properties of polyketone composites. <i>European Polymer Journal</i> , <b>2015</b> , 69, 156-167  | 5.2 | 36 |
| 112 | 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. <i>Polymers</i> , <b>2013</b> , 5, 77-111  | 4.5 | 36 |
| 111 | Highly reinforced pore-filling membranes based on sulfonated poly(arylene ether sulfone)s for high-temperature/low-humidity polymer electrolyte membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2017</b> , 537, 11-21  | 9.6 | 35 |
| 110 | Proton-Conducting Zirconium Pyrophosphate/Poly(2,5-benzimidazole) Composite Membranes Prepared by a PPA Direct Casting Method. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 2293-2302   | 2.6 | 35 |
| 109 | High-flux and antifouling polyethersulfone nanocomposite membranes incorporated with zwitterion-functionalized graphene oxide for ultrafiltration applications. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 84, 131-140                                    | 6.3 | 34 |
| 108 | Poly(arylene 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. <i>Journal of Power Sources</i> , <b>2015</b> , 293, 539-547 | 8.9 | 31 |
| 107 | A Carbonaceous Membrane based on a Polymer of Intrinsic Microporosity (PIM-1) for Water Treatment. <i>Scientific Reports</i> , <b>2016</b> , 6, 36078   | 4.9 | 31 |
| 106 | Synthesis and characterization of self-cross-linkable and bactericidal methacrylate polymers having renewable cardanol moieties for surface coating applications. <i>RSC Advances</i> , <b>2014</b> , 4, 41195-41203  | 3.7 | 31 |
| 105 | Cross-Linked Sulfonated Poly(arylene ether sulfone) Containing a Flexible and Hydrophobic Bishydroxy Perfluoropolyether Cross-Linker for High-Performance Proton Exchange Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21788-21793                     | 9.5 | 30 |
| 104 | Comb-Like Fluorinated Polystyrenes Having Different Side Chain Interconnecting Groups. <i>Macromolecules</i> , <b>2009</b> , 42, 3333-3339  | 5.5 | 30 |

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| 103 | Proton conductive cross-linked benzoxazine-benzimidazole copolymers as novel porous substrates for reinforced pore-filling membranes in fuel cells operating at high temperatures. <i>Journal of Membrane Science</i> , <b>2017</b> , 536, 76-85    | 9.6 | 29 |
| 102 | Environmentally Sustainable Aluminum-Coordinated Poly(tetrahydroxybenzoquinone) as a Promising Cathode for Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3479-3488  | 8.5 | 29 |
| 101 | Comb-shaped polysulfones containing sulfonated polytriazole side chains for proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 554, 232-243  | 9.6 | 29 |
| 100 | Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals. <i>Advanced Materials</i> , <b>2016</b> , 28, 9301-9307   | 7   | 29 |
| 99  | Multifunctional Mesoporous Ionic Gels and Scaffolds Derived from Polyhedral Oligomeric Silsesquioxanes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3616-3623  | 9.5 | 27 |
| 98  | Solid Polymer Electrolytes Based on Functionalized Tannic Acids from Natural Resources for All-Solid-State Lithium-Ion Batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 4133-8  | 8.3 | 27 |
| 97  | Inhibition of bacterial adhesion on well ordered comb-like polymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2010</b> , 77, 191-9  | 6   | 27 |
| 96  | Solid polymer electrolytes containing poly(ethylene glycol) and renewable cardanol moieties for all-solid-state rechargeable lithium batteries. <i>Polymer</i> , <b>2016</b> , 99, 704-712  | 3.9 | 27 |
| 95  | End-group cross-linked sulfonated poly(arylene ether sulfone) via thiol-ene click reaction for high-performance proton exchange membrane. <i>Journal of Power Sources</i> , <b>2018</b> , 401, 20-28  | 8.9 | 27 |
| 94  | Graphene oxide reinforced hydrogels for osteogenic differentiation of human adipose-derived stem cells. <i>RSC Advances</i> , <b>2017</b> , 7, 20779-20788  | 3.7 | 26 |
| 93  | Organic/inorganic composite membranes comprising of sulfonated Poly(arylene ether sulfone) and core-shell silica particles having acidic and basic polymer shells. <i>Polymer</i> , <b>2015</b> , 71, 70-81   | 3.9 | 26 |
| 92  | Thermo-responsive copolymers with ionic group as novel draw solutes for forward osmosis processes. <i>Macromolecular Research</i> , <b>2014</b> , 22, 963-970   | 1.9 | 26 |
| 91  | Enhanced, Perpendicular Liquid-Crystal Alignment on Rubbed Films of a Coumarin-Containing Polystyrene. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 1853-1861   | 2.6 | 26 |
| 90  | Bio- and oil-fouling resistance of ultrafiltration membranes controlled by star-shaped block and random copolymer coatings. <i>RSC Advances</i> , <b>2013</b> , 3, 18071  | 3.7 | 25 |
| 89  | 4-Alkylphenoxymethyl-Substituted Polystyrenes for Liquid Crystal Alignment Layers. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 926-935   | 2.6 | 25 |
| 88  | Polysiloxanes containing alkyl side groups: synthesis and mesomorphic behavior. <i>Macromolecular Research</i> , <b>2008</b> , 16, 36-44  | 1.9 | 25 |
| 87  | 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. <i>Journal of Power Sources</i> , <b>2020</b> , 448, 227427 | 8.9 | 25 |
| 86  | Effect of n-alkyl and sulfonyl groups on the wetting properties of comblike poly(oxyethylene)s and stick-slip behavior. <i>Langmuir</i> , <b>2011</b> , 27, 1811-20   | 4   | 24 |

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|----|---|------|----|
| 85 | Liquid crystal alignment property of n-alkylthiomethyl- or n-alkylsulfonylmethyl-substituted polystyrenes. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 20, 878-886  | 3.2  | 24 |
| 84 | Cross-Linked Graphene Oxide Membrane Functionalized with Self-Cross-Linkable and Bactericidal Cardanol for Oil/Water Separation. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2600-2608   | 5.6  | 24 |
| 83 | Universal perpendicular orientation of block copolymer microdomains using a filtered plasma. <i>Nature Communications</i> , <b>2019</b> , 10, 2912  | 17.4 | 23 |
| 82 | In-situ nanofabrication via electrohydrodynamic jetting of countercharged nozzles. <i>Polymer Bulletin</i> , <b>2008</b> , 61, 521-528  | 2.4  | 23 |
| 81 | High-performance proton-exchange membrane water electrolysis using a sulfonated poly(arylene ether sulfone) membrane and ionomer. <i>Journal of Membrane Science</i> , <b>2021</b> , 620, 118871  | 9.6  | 22 |
| 80 | Synthesis of ArF photoresist polymer composed of three methacrylate monomers via reversible addition-fragmentation chain transfer (RAFT) polymerization. <i>Macromolecular Research</i> , <b>2011</b> , 19, 722-728   | 1.9  | 21 |
| 79 | PIM-1-based carbon/sulfur composites for sodium/sulfur batteries that operate without the shuttle effect. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3580-3585  | 13   | 20 |
| 78 | Semi-interpenetrating network electrolyte membranes based on sulfonated poly(arylene ether sulfone) for fuel cells at high temperature and low humidity conditions. <i>Electrochemistry Communications</i> , <b>2014</b> , 48, 44-48  | 5.1  | 20 |
| 77 | Synthesis and Characterization of Poly[oxy(1,1,1-trifluoroalkylsulfonylmethyl)ethylene]: Effect of Terminal CF <sub>3</sub> and CH <sub>3</sub> Moieties on the Wettability of the Comb-Like Polymers. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 1011-1019 | 2.6  | 20 |
| 76 | Copolymers of Poly(2,5-benzimidazole) and Poly[2,2'-(p-phenylene)-5,5'-bibenzimidazole] for High-Temperature Fuel Cell Applications. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 914-921   | 3.9  | 20 |
| 75 | Synthesis and properties of polysiloxanes containing polyhedral oligomeric silsesquioxane (POSS) and oligo (ethylene oxide) groups in the side chains. <i>Macromolecular Research</i> , <b>2010</b> , 18, 1021-1029   | 1.9  | 19 |
| 74 | Sulfonated poly(arylene ether sulfone) composite membrane having sulfonated polytriazole grafted graphene oxide for high-performance proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2020</b> , 612, 118428  | 9.6  | 18 |
| 73 | Improvement in mechanical and thermal properties of polypropylene nanocomposites using an extremely small amount of alkyl chain-grafted hexagonal boron nitride nanosheets. <i>Polymer</i> , <b>2019</b> , 180, 121714  | 3.9  | 17 |
| 72 | Photoalignment behaviour on polystyrene films containing chalcone moieties. <i>Liquid Crystals</i> , <b>2015</b> , 42, 189-197  | 2.3  | 17 |
| 71 | Polysulfone based ultrafiltration membranes with dopamine and nisin moieties showing antifouling and antimicrobial properties. <i>Separation and Purification Technology</i> , <b>2018</b> , 202, 9-20  | 8.3  | 16 |
| 70 | 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. <i>Macromolecular Research</i> , <b>2012</b> , 20, 1181-1190                             | 1.9  | 16 |
| 69 | Molecular Structure and Surface Properties of Comb-Like Fluorinated Poly(oxyethylene)s Having Different Content of Fluoroalkyl Side Group. <i>Macromolecules</i> , <b>2010</b> , 43, 10481-10489  | 5.5  | 16 |
| 68 | Ion conduction behaviour in chemically crosslinked hybrid ionogels: effect of free-dangling oligoethyleneoxides. <i>RSC Advances</i> , <b>2015</b> , 5, 94241-94247   | 3.7  | 15 |

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|----|---|-----|----|
| 67 | Comb-like polymer blends of poly(oxyethylene)s with CH <sub>3</sub> -terminated and CF <sub>3</sub> -terminated alkylsulfonylmethyl side chains: effect of terminal CF <sub>3</sub> moiety on the surface properties of the blends. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 343, 115-24 | 9.3 | 15 |
| 66 | 2-Naphthoxymethyl-Substituted Polystyrenes for Homeotropic Liquid-Crystal Alignment Layers. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 1900-1908  | 2.6 | 15 |
| 65 | Polybenzimidazole composite membranes containing imidazole functionalized graphene oxide showing high proton conductivity and improved physicochemical properties. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12254-12262  | 6.7 | 15 |
| 64 | Sustainable Lignin-Derived Cross-Linked Graft Polymers as Electrolyte and Binder Materials for Lithium Metal Batteries. <i>ChemSusChem</i> , <b>2020</b> , 13, 2642-2649  | 8.3 | 14 |
| 63 | Liquid crystal alignment behaviours on poly(methyl methacrylate) having polyhedral oligomeric silsesquioxane groups. <i>Liquid Crystals</i> , <b>2015</b> , 42, 32-40   | 2.3 | 14 |
| 62 | Synthesis of a photo-patternable cross-linked epoxy system containing photodegradable carbonate units for deep UV lithography. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 2093-2100   | 2.9 | 14 |
| 61 | Systematic structure control of ammonium iodide salts as feasible UCST-type forward osmosis draw solutes for the treatment of wastewater. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1255-1265  | 13  | 14 |
| 60 | Coaxial struts and microfractured structures of compressible thermoelectric foams for self-powered pressure sensors. <i>Nanoscale</i> , <b>2018</b> , 10, 18370-18377   | 7.7 | 14 |
| 59 | Liquid crystal alignment properties of n-alkylsulphonylmethyl-substituted polyoxyethylenes. <i>Liquid Crystals</i> , <b>2009</b> , 36, 855-864  | 2.3 | 13 |
| 58 | Nonflammable and thermally stable gel polymer electrolytes based on crosslinked perfluoropolyether (PFPE) network for lithium battery applications. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 64, 453-460  | 6.3 | 12 |
| 57 | Quasi-Solid-State Rechargeable Li-O Batteries with High Safety and Long Cycle Life at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15634-15641   | 9.5 | 11 |
| 56 | Synthesis and characterization of biocidal poly(oxyethylene)s having N-halamine side groups. <i>Macromolecular Research</i> , <b>2011</b> , 19, 1227-1232   | 1.9 | 10 |
| 55 | Surface properties and liquid crystal alignment behavior of poly(2-hydroxyethyl methacrylate) derivatives with alkyl ester side chains. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 360, 623-32   | 9.3 | 10 |
| 54 | 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. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10495-10505                               | 6.1 | 10 |
| 53 | Healable properties of polymethacrylate derivatives having photo crosslinkable cinnamoyl side groups with surface hardness control <b>2014</b> , 11, 455-459  |     | 9  |
| 52 | Enhanced Osteogenic Commitment of Human Mesenchymal Stem Cells on Polyethylene Glycol-Based Cryogel with Graphene Oxide Substrate. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 2470-2479   | 5.5 | 9  |
| 51 | Synthesis of high molecular weight polybenzimidazole using a highly pure monomer under mild conditions. <i>Polymer International</i> , <b>2017</b> , 66, 1812-1818  | 3.3 | 9  |
| 50 | Preparation of Polybenzimidazole/Lithium Hydrazinium Sulfate Composite Membranes for High-Temperature Fuel Cell Applications. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 1322-1329  | 2.6 | 9  |

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| 49 | Superamphiphilic zwitterionic block copolymer surfactant-assisted fabrication of polyamide thin-film composite membrane with highly enhanced desalination performance. <i>Journal of Membrane Science</i> , <b>2021</b> , 618, 118677  | 9.6 | 9 |
| 48 | Biocompatible Ag nanoparticle-embedded poly(2-hydroxyethyl methacrylate) derivative films with bacterial adhesion-resistant and antibacterial properties. <i>Macromolecular Research</i> , <b>2014</b> , 22, 337-343                   | 1.9 | 8 |
| 47 | Preparation of acid-cleavable branched polymers for argon fluoride photoresists via reversible addition-fragmentation chain-transfer polymerization. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 344-352            | 2.9 | 8 |
| 46 | Ion beam induced liquid crystal alignment properties of 4-alkylphenoxyethyl-substituted polystyrenes. <i>Liquid Crystals</i> , <b>2010</b> , 37, 179-187   | 2.3 | 8 |
| 45 | Liquid Crystal Alignment Properties of Poly-(3-thiopheneacetate)/Dialkyldimethylammonium Complexes. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 353-358   | 2.6 | 8 |
| 44 | Preparation of polymer composites containing gold nanonetworks using an amphiphilic poly(oxyethylene) brush. <i>Macromolecular Research</i> , <b>2008</b> , 16, 711-716  | 1.9 | 8 |
| 43 | Synthesis and characterization of biocompatible copolymers containing plant-based cardanol and zwitterionic groups for antifouling and bactericidal coating applications. <i>European Polymer Journal</i> , <b>2019</b> , 112, 688-695 | 5.2 | 8 |
| 42 | Antibacterial and biocompatible ABA-triblock copolymers containing perfluoropolyether and plant-based cardanol for versatile coating applications. <i>RSC Advances</i> , <b>2017</b> , 7, 38091-38099                                  | 3.7 | 7 |
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| 29 | Control of liquid crystal alignment on polystyrene nanorod arrays. <i>Liquid Crystals</i> , <b>2011</b> , 38, 1131-1136   | 2.3 | 4 |
| 28 | Liquid crystal alignment properties of 2-naphthoxymethyl-substituted polystyrenes. <i>Liquid Crystals</i> , <b>2009</b> , 36, 479-485   | 2.3 | 4 |
| 27 | Liquid crystal alignment properties of polystyrene derivatives containing fluorinated side groups. <i>Macromolecular Research</i> , <b>2010</b> , 18, 78-85   | 1.9 | 4 |
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| 15 | Poly(vinylidene fluoride)-based film with strong antimicrobial activity. <i>Applied Surface Science</i> , <b>2021</b> , 562, 150181   | 6.7 | 2 |
| 14 | Perfluorocyclobutyl-containing multiblock copolymers to induce enhanced hydrophilic/hydrophobic phase separation and high proton conductivity at low humidity. <i>Journal of Membrane Science</i> , <b>2022</b> , 641, 119892   | 9.6 | 2 |

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| 13 | Carbonization of Carboxylate-Functionalized Polymers of Intrinsic Microporosity for Water Treatment. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 1900532  | 2.6 | 1 |
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