

Ying-Ling Liu

List of Publications by Year in descending order

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235
papers

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10571
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| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|
| 1 | Cross-Linking with Diamine Monomers To Prepare Composite Graphene Oxide-Framework Membranes with Varying <i>d</i> -Spacing. <i>Chemistry of Materials</i> , 2014, 26, 2983-2990. | 3.2 | 644 |
| 2 | Self-healing polymers based on thermally reversible Diels-Alder chemistry. <i>Polymer Chemistry</i> , 2013, 4, 2194. | 1.9 | 530 |
| 3 | Flame-retardant epoxy resins from novel phosphorus-containing novolac. <i>Polymer</i> , 2001, 42, 3445-3454. | 1.8 | 273 |
| 4 | Preparation and thermal properties of epoxy-silica nanocomposites from nanoscale colloidal silica. <i>Polymer</i> , 2003, 44, 5159-5167. | 1.8 | 242 |
| 5 | High performance benzoxazine monomers and polymers containing furan groups. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5267-5282. | 2.5 | 239 |
| 6 | Crosslinked epoxy materials exhibiting thermal remendability and removability from multifunctional maleimide and furan compounds. <i>Journal of Polymer Science Part A</i> , 2006, 44, 905-913. | 2.5 | 233 |
| 7 | Epoxy resins possessing flame retardant elements from silicon incorporated epoxy compounds cured with phosphorus or nitrogen containing curing agents. <i>Polymer</i> , 2002, 43, 4277-4284. | 1.8 | 230 |
| 8 | In situ crosslinking of chitosan and formation of chitosan-silica hybrid membranes with using β -glycidoxypropyltrimethoxysilane as a crosslinking agent. <i>Polymer</i> , 2004, 45, 6831-6837. | 1.8 | 228 |
| 9 | Thermally Reversible Cross-Linked Polyamides with High Toughness and Self-Repairing Ability from Maleimide- and Furan-Functionalized Aromatic Polyamides. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 224-232. | 1.1 | 213 |
| 10 | Chitosan-Silica Complex Membranes from Sulfonic Acid Functionalized Silica Nanoparticles for Pervaporation Dehydration of Ethanol-Water Solutions. <i>Biomacromolecules</i> , 2005, 6, 368-373. | 2.6 | 192 |
| 11 | Phosphorus-containing epoxy for flame retardant. III: Using phosphorylated diamines as curing agents. <i>Journal of Applied Polymer Science</i> , 1997, 63, 895-901. | 1.3 | 178 |
| 12 | Crosslinked organic-inorganic hybrid chitosan membranes for pervaporation dehydration of isopropanol-water mixtures with a long-term stability. <i>Journal of Membrane Science</i> , 2005, 251, 233-238. | 4.1 | 177 |
| 13 | Flame-retardant epoxy resins: An approach from organic-inorganic hybrid nanocomposites. <i>Journal of Polymer Science Part A</i> , 2001, 39, 986-996. | 2.5 | 167 |
| 14 | Thermal stability of epoxy resins containing flame retardant components: an evaluation with thermogravimetric analysis. <i>Polymer Degradation and Stability</i> , 2002, 78, 41-48. | 2.7 | 167 |
| 15 | Preparation and properties of chitosan/carbon nanotube nanocomposites using poly(styrene sulfonic) Tj ETQq1 1 0,784314 rgBT /Overl 5.1 166 | 0.784314 | 166 |
| 16 | Thermally reversible cross-linked polyamides and thermo-responsive gels by means of Diels-Alder reaction. <i>Polymer</i> , 2006, 47, 2581-2586. | 1.8 | 154 |
| 17 | Proton exchange membranes modified with sulfonated silica nanoparticles for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2007, 296, 21-28. | 4.1 | 152 |
| 18 | Preparation, thermal properties, and flame retardance of epoxy-silica hybrid resins. <i>Journal of Polymer Science Part A</i> , 2003, 41, 2354-2367. | 2.5 | 151 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Phosphorus-containing epoxy resins for flame retardancy V: Synergistic effect of phosphorus-silicon on flame retardancy. <i>Journal of Applied Polymer Science</i> , 2000, 78, 1-7. | 1.3 | 146 |
| 20 | Phosphorus-containing epoxy for flame retardant. I. Synthesis, thermal, and flame-retardant properties. <i>Journal of Applied Polymer Science</i> , 1996, 61, 613-621. | 1.3 | 136 |
| 21 | Epoxy resins from novel monomers with a bis-(9,10-dihydro-9-oxa-10-oxide-10-phosphaphenanthrene-10-yl-) substituent. <i>Journal of Polymer Science Part A</i> , 2002, 40, 359-368. | 2.5 | 135 |
| 22 | Preparation and applications of Nafion-functionalized multiwalled carbon nanotubes for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 4409. | 6.7 | 135 |
| 23 | Nafion-functionalized electrospun poly(vinylidene fluoride) (PVDF) nanofibers for high performance proton exchange membranes in fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3783-3793. | 5.2 | 135 |
| 24 | A new class of highly-conducting polymer electrolyte membranes: Aromatic ABA triblock copolymers. <i>Energy and Environmental Science</i> , 2012, 5, 5346-5355. | 15.6 | 131 |
| 25 | Thermal stability of epoxy-silica hybrid materials by thermogravimetric analysis. <i>Thermochimica Acta</i> , 2004, 412, 139-147. | 1.2 | 124 |
| 26 | Preparation and properties of nanocomposite membranes of polybenzimidazole/sulfonated silica nanoparticles for proton exchange membranes. <i>Journal of Membrane Science</i> , 2009, 332, 121-128. | 4.1 | 122 |
| 27 | Dual-Thermoresponsive Phase Behavior of Blood Compatible Zwitterionic Copolymers Containing Nonionic Poly(<i>N</i> -isopropyl acrylamide). <i>Biomacromolecules</i> , 2009, 10, 2092-2100. | 2.6 | 121 |
| 28 | Functionalization of multi-walled carbon nanotubes with non-reactive polymers through an ozone-mediated process for the preparation of a wide range of high performance polymer/carbon nanotube composites. <i>Carbon</i> , 2010, 48, 1289-1297. | 5.4 | 119 |
| 29 | Nanohybrids of graphene oxide chemically-bonded with Nafion: Preparation and application for proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2016, 514, 86-94. | 4.1 | 118 |
| 30 | Synthesis, characterization, thermal, and flame retardant properties of phosphate-based epoxy resins. <i>Journal of Polymer Science Part A</i> , 1997, 35, 565-574. | 2.5 | 113 |
| 31 | Phosphorus-containing epoxy for flame retardance: IV. Kinetics and mechanism of thermal degradation. <i>Polymer Degradation and Stability</i> , 1997, 56, 291-299. | 2.7 | 110 |
| 32 | Preparation and properties of novel benzoxazine and polybenzoxazine with maleimide groups. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5954-5963. | 2.5 | 109 |
| 33 | The effect of silicon sources on the mechanism of phosphorus-silicon synergism of flame retardation of epoxy resins. <i>Polymer Degradation and Stability</i> , 2005, 90, 515-522. | 2.7 | 107 |
| 34 | Synthesis and characterization of nanocomposite of polyimide-silica hybrid from nonaqueous sol-gel process. <i>Journal of Applied Polymer Science</i> , 2000, 76, 1609-1618. | 1.3 | 105 |
| 35 | Maleimide-epoxy resins: preparation, thermal properties, and flame retardance. <i>Polymer</i> , 2003, 44, 565-573. | 1.8 | 105 |
| 36 | Poly(methylmethacrylate)-silica nanocomposites films from surface-functionalized silica nanoparticles. <i>Polymer</i> , 2005, 46, 1851-1856. | 1.8 | 104 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Developments of highly proton-conductive sulfonated polymers for proton exchange membrane fuel cells. <i>Polymer Chemistry</i> , 2012, 3, 1373. | 1.9 | 103 |
| 38 | Polyelectrolyte composite membranes of polybenzimidazole and crosslinked polybenzimidazole-polybenzoxazine electrospun nanofibers for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1171-1178. | 5.2 | 103 |
| 39 | Hemocompatibility of Poly(vinylidene fluoride) Membrane Grafted with Network-Like and Brush-Like Antifouling Layer Controlled via Plasma-Induced Surface PEGylation. <i>Langmuir</i> , 2011, 27, 5445-5455. | 1.6 | 102 |
| 40 | Functionalization of multi-walled carbon nanotubes with furan and maleimide compounds through Diels-Alder cycloaddition. <i>Carbon</i> , 2009, 47, 3041-3049. | 5.4 | 101 |
| 41 | High performance thermosets from a curable Diels-Alder polymer possessing benzoxazine groups in the main chain. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6509-6517. | 2.5 | 100 |
| 42 | Preparation, morphology, and ultra-low dielectric constants of benzoxazine-based polymers/polyhedral oligomeric silsesquioxane (POSS) nanocomposites. <i>Polymer</i> , 2010, 51, 5567-5575. | 1.8 | 94 |
| 43 | Densely Sulfophenylated Segmented Copoly(arylene ether sulfone) Proton Exchange Membranes. <i>Macromolecules</i> , 2011, 44, 4901-4910. | 2.2 | 94 |
| 44 | Polybenzimidazole membranes modified with polyelectrolyte-functionalized multiwalled carbon nanotubes for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 7480. | 6.7 | 93 |
| 45 | Synthesis and flame-retardant properties of phosphorus-containing polymers based on poly(4-hydroxystyrene). <i>Journal of Applied Polymer Science</i> , 1996, 59, 1619-1625. | 1.3 | 92 |
| 46 | Synthesis and properties of new organosoluble aromatic polyamides with cyclic bulky groups containing phosphorus. <i>Polymer</i> , 2002, 43, 5757-5762. | 1.8 | 92 |
| 47 | Modification of Multiwall Carbon Nanotubes with Initiators and Macroinitiators of Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2007, 40, 8881-8886. | 2.2 | 91 |
| 48 | Polybenzimidazole (PBI)-functionalized silica nanoparticles modified PBI nanocomposite membranes for proton exchange membranes fuel cells. <i>Journal of Membrane Science</i> , 2012, 403-404, 1-7. | 4.1 | 90 |
| 49 | Flame-retardant epoxy resins from cresol novolac epoxy cured with a phosphorus-containing aralkyl novolac. <i>Journal of Polymer Science Part A</i> , 2002, 40, 2329-2339. | 2.5 | 88 |
| 50 | Chitosan/poly(tetrafluoroethylene) composite membranes using in pervaporation dehydration processes. <i>Journal of Membrane Science</i> , 2007, 287, 230-236. | 4.1 | 87 |
| 51 | Surface grafting polymerization and modification on poly(tetrafluoroethylene) films by means of ozone treatment. <i>Polymer</i> , 2005, 46, 6976-6985. | 1.8 | 82 |
| 52 | Silicon-containing benzoxazines and their polymers: Copolymerization and copolymer properties. <i>Journal of Polymer Science Part A</i> , 2007, 45, 1007-1015. | 2.5 | 82 |
| 53 | pH-Induced switches of the oil- and water-selectivity of crosslinked polymeric membranes for gravity-driven oil-water separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13543-13548. | 5.2 | 78 |
| 54 | Three-dimensional electrodes for dye-sensitized solar cells: synthesis of indium-tin-oxide nanowire arrays and ITO/TiO ₂ core-shell nanowire arrays by electrophoretic deposition. <i>Nanotechnology</i> , 2009, 20, 055601. | 1.3 | 72 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Alkali doped polyvinyl alcohol/multi-walled carbon nano-tube electrolyte for direct methanol alkaline fuel cell. <i>Journal of Membrane Science</i> , 2011, 376, 225-232. | 4.1 | 72 |
| 56 | Preparation of silicon-/phosphorous-containing epoxy resins from the fusion process to bring a synergistic effect on improving the resins' thermal stability and flame retardancy. <i>Journal of Applied Polymer Science</i> , 2003, 87, 404-411. | 1.3 | 71 |
| 57 | Benzoxazine-containing branched polysiloxanes: Highly efficient reactive-type flame retardants and property enhancement agents for polymers. <i>Polymer</i> , 2013, 54, 2945-2951. | 1.8 | 70 |
| 58 | Using silica nanoparticles for modifying sulfonated poly(phthalazinone ether ketone) membrane for direct methanol fuel cell: A significant improvement on cell performance. <i>Journal of Power Sources</i> , 2006, 155, 111-117. | 4.0 | 68 |
| 59 | Hydrophilic surface-grafted poly(tetrafluoroethylene) membranes using in pervaporation dehydration processes. <i>Journal of Membrane Science</i> , 2006, 274, 47-55. | 4.1 | 68 |
| 60 | Self-assembled benzoxazine-bridged polysilsesquioxanes exhibiting ultralow-dielectric constants and yellow-light photoluminescent emission. <i>Journal of Materials Chemistry</i> , 2011, 21, 7182. | 6.7 | 68 |
| 61 | Benzoxazine-functionalized multi-walled carbon nanotubes for preparation of electrically-conductive polybenzoxazines. <i>Polymer</i> , 2012, 53, 106-112. | 1.8 | 66 |
| 62 | Flame-retardant polyurethanes from phosphorus-containing isocyanates. <i>Journal of Polymer Science Part A</i> , 1997, 35, 1769-1780. | 2.5 | 64 |
| 63 | A novel approach of chemical functionalization on nano-scaled silica particles. <i>Nanotechnology</i> , 2003, 14, 813-819. | 1.3 | 64 |
| 64 | Hydrophilic chitosan-modified polybenzimidazole membranes for pervaporation dehydration of isopropanol aqueous solutions. <i>Journal of Membrane Science</i> , 2014, 463, 17-23. | 4.1 | 64 |
| 65 | Reaction mechanism and synergistic anticorrosion property of reactive blends of maleimide-containing benzoxazine and amine-capped aniline trimer. <i>Polymer Chemistry</i> , 2014, 5, 4235-4244. | 1.9 | 64 |
| 66 | Synthesis and characterization of new organosoluble polyaspartimides containing phosphorus. <i>Polymer</i> , 2002, 43, 1773-1779. | 1.8 | 63 |
| 67 | Fluorenyl-containing sulfonated poly(aryl ether ether ketone ketone)s (SPFEEKK) for fuel cell applications. <i>Journal of Membrane Science</i> , 2006, 280, 54-64. | 4.1 | 61 |
| 68 | Thermally stable polybenzimidazole/carbon nano-tube composites for alkaline direct methanol fuel cell applications. <i>Journal of Power Sources</i> , 2014, 246, 39-48. | 4.0 | 61 |
| 69 | Poly(tetrafluoroethylene)/polyamide thin-film composite membranes via interfacial polymerization for pervaporation dehydration on an isopropanol aqueous solution. <i>Journal of Membrane Science</i> , 2008, 315, 106-115. | 4.1 | 59 |
| 70 | Alkaline direct ethanol fuel cell performance using alkali-impregnated polyvinyl alcohol/functionalized carbon nano-tube solid electrolytes. <i>Journal of Power Sources</i> , 2016, 303, 267-277. | 4.0 | 58 |
| 71 | Triphenylphosphine oxide-based bismaleimide and poly(bismaleimide): Synthesis, characterization, and properties. <i>Journal of Polymer Science Part A</i> , 2001, 39, 1716-1725. | 2.5 | 56 |
| 72 | Electrical Conductivity Enhancement of Polymer/Multiwalled Carbon Nanotube (MWCNT) Composites by Thermally-Induced Defunctionalization of MWCNTs. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2204-2208. | 4.0 | 56 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Cocuring behaviors of benzoxazine and maleimide derivatives and the thermal properties of the cured products. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1890-1899. | 2.5 | 54 |
| 74 | Novel polyvinyl alcohol nanocomposites containing carbon nano-tubes with Fe ₃ O ₄ pendants for alkaline fuel cell applications. <i>Journal of Membrane Science</i> , 2013, 444, 41-49. | 4.1 | 53 |
| 75 | Novel thermosetting resins based on 4-(N-maleimidophenyl)glycidylether: II. Bismaleimides and polybismaleimides. <i>Polymer</i> , 2004, 45, 1797-1804. | 1.8 | 52 |
| 76 | Increases in the proton conductivity and selectivity of proton exchange membranes for direct methanol fuel cells by formation of nanocomposites having proton conducting channels. <i>Journal of Power Sources</i> , 2009, 194, 206-213. | 4.0 | 52 |
| 77 | High-performance direct methanol alkaline fuel cells using potassium hydroxide-impregnated polyvinyl alcohol/carbon nano-tube electrolytes. <i>Journal of Power Sources</i> , 2012, 202, 1-10. | 4.0 | 52 |
| 78 | Electrically driven self-healing polymers based on reversible guest-host complexation of β -cyclodextrin and ferrocene. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3395-3403. | 2.5 | 52 |
| 79 | Composite membranes of Nafion and poly(styrene sulfonic acid)-grafted poly(vinylidene fluoride) electrospun nanofiber mats for fuel cells. <i>Journal of Membrane Science</i> , 2014, 466, 238-245. | 4.1 | 52 |
| 80 | High flux MWCNTs-interlinked GO hybrid membranes survived in cross-flow filtration for the treatment of strontium-containing wastewater. <i>Journal of Hazardous Materials</i> , 2016, 320, 187-193. | 6.5 | 51 |
| 81 | Crosslinked electrospun poly(vinylidene difluoride) fiber mat as a matrix of gel polymer electrolyte for fast-charging lithium-ion battery. <i>Electrochimica Acta</i> , 2017, 258, 1329-1335. | 2.6 | 51 |
| 82 | Phosphorus-containing polyaryloxydiphenylsilanes with high flame retardance arising from a phosphorus-silicon synergistic effect. <i>Polymer International</i> , 2003, 52, 1256-1261. | 1.6 | 48 |
| 83 | Epoxy/polyhedral oligomeric silsesquioxane nanocomposites from octakis(glycidyl dimethylsiloxy)octasilsesquioxane and small-molecule curing agents. <i>Journal of Polymer Science Part A</i> , 2006, 44, 3825-3835. | 2.5 | 47 |
| 84 | Preparation and properties of polyhedral oligosilsequioxane tethered aromatic polyamide nanocomposites through Michael addition between maleimide-containing polyamides and an amino-functionalized polyhedral oligosilsequioxane. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4632-4643. | 2.5 | 47 |
| 85 | PTFE/polyamide thin-film composite membranes using PTFE films modified with ethylene diamine polymer and interfacial polymerization: Preparation and pervaporation application. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 260-267. | 5.0 | 47 |
| 86 | Polyhedral oligomeric silsesquioxane nanocomposites exhibiting ultra-low dielectric constants through POSS orientation into lamellar structures. <i>Journal of Materials Chemistry</i> , 2009, 19, 3643. | 6.7 | 47 |
| 87 | Surface modification of porous substrates for oil/water separation using crosslinkable polybenzoxazine as an agent. <i>Journal of Membrane Science</i> , 2018, 546, 100-109. | 4.1 | 47 |
| 88 | The effects of surface modifications on preparation and pervaporation dehydration performance of chitosan/polysulfone composite hollow-fiber membranes. <i>Journal of Membrane Science</i> , 2008, 311, 243-250. | 4.1 | 46 |
| 89 | Preparation, characterization, and properties of fluorene-containing benzoxazine and its corresponding cross-linked polymer. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4020-4026. | 2.5 | 45 |
| 90 | Cross-Linkable and Self-Foaming Polysulfide Materials for Repairable and Mercury Capture Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4515-4522. | 3.2 | 45 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Novel thermosetting resins based on 4-(N-maleimidophenyl)glycidylether I. Preparation and characterization of monomer and cured resins. <i>Polymer</i> , 2003, 44, 6465-6473. | 1.8 | 44 |
| 92 | Nanocomposite membranes of Nafion and Fe ₃ O ₄ -anchored and Nafion-functionalized multiwalled carbon nanotubes exhibiting high proton conductivity and low methanol permeability for direct methanol fuel cells. <i>RSC Advances</i> , 2013, 3, 12895. | 1.7 | 44 |
| 93 | Novel approach to preparing epoxy/polyhedral oligometric silsesquioxane hybrid materials possessing high mass fractions of polyhedral oligometric silsesquioxane and good homogeneity. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1869-1876. | 2.5 | 43 |
| 94 | Pebax/PEG Grafted CNT Hybrid Membranes for Enhanced CO ₂ /N ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12226-12234. | 1.8 | 43 |
| 95 | Flame retardant epoxy polymers using phosphorus-containing polyalkylene amines as curing agents. <i>Journal of Applied Polymer Science</i> , 2001, 82, 3526-3538. | 1.3 | 42 |
| 96 | Polymerization and nanocomposites properties of multifunctional methylmethacrylate POSS. <i>Journal of Polymer Science Part A</i> , 2008, 46, 5157-5166. | 2.5 | 42 |
| 97 | Nanocomposites of polybenzoxazine-functionalized multiwalled carbon nanotubes and polybenzoxazine for anticorrosion application. <i>Composites Science and Technology</i> , 2020, 194, 108169. | 3.8 | 42 |
| 98 | Novel approach to the chemical modification of poly(vinyl alcohol): Phosphorylation. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1107-1113. | 2.5 | 41 |
| 99 | Preparation and characterization of multifunctional maleimide macromonomers and their cured resins. <i>Journal of Polymer Science Part A</i> , 2004, 42, 3178-3188. | 2.5 | 41 |
| 100 | Synthesis and montmorillonite-intercalated behavior of dendritic surfactants. <i>Journal of Materials Chemistry</i> , 2006, 16, 2056. | 6.7 | 41 |
| 101 | Poly(lactide)-functionalized and Fe ₃ O ₄ nanoparticle-decorated multiwalled carbon nanotubes for preparation of electrically-conductive and magnetic poly(lactide) films and electrospun nanofibers. <i>Journal of Materials Chemistry</i> , 2012, 22, 4855. | 6.7 | 41 |
| 102 | Multiple stimuli-responsive poly(vinylidene fluoride) (PVDF) membrane exhibiting high efficiency of membrane clean in protein separation. <i>Journal of Membrane Science</i> , 2014, 450, 257-264. | 4.1 | 39 |
| 103 | Reactive Hybrid of Polyhedral Oligomeric Silsesquioxane (POSS) and Sulfur as a Building Block for Self-Healing Materials. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700051. | 2.0 | 39 |
| 104 | Preparation of epoxy resin/silica hybrid composites for epoxy molding compounds. <i>Journal of Applied Polymer Science</i> , 2003, 90, 4047-4053. | 1.3 | 36 |
| 105 | Enhanced thermal properties and flame retardancy from a thermosetting blend of a phosphorus-containing bismaleimide and epoxy resins. <i>Polymers for Advanced Technologies</i> , 2003, 14, 147-156. | 1.6 | 36 |
| 106 | Using silica nanoparticles as curing reagents for epoxy resins to form epoxy-silica nanocomposites. <i>Journal of Applied Polymer Science</i> , 2005, 95, 1237-1245. | 1.3 | 36 |
| 107 | Surface-initiated atom transfer radical polymerization from porous poly(tetrafluoroethylene) membranes using the C-F groups as initiators. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2076-2083. | 2.5 | 36 |
| 108 | Effective approaches for the preparation of organo-modified multi-walled carbon nanotubes and the corresponding MWCNT/polymer nanocomposites. <i>Polymer Journal</i> , 2016, 48, 351-358. | 1.3 | 36 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Surface modification and adhesion improvement of expanded poly(tetrafluoroethylene) films by plasma graft polymerization. <i>Surface and Coatings Technology</i> , 2006, 201, 63-72. | 2.2 | 35 |
| 110 | Crosslinked polybenzoxazine based membrane exhibiting in-situ self-promoted separation performance for pervaporation dehydration on isopropanol aqueous solutions. <i>Journal of Membrane Science</i> , 2017, 531, 10-15. | 4.1 | 35 |
| 111 | Furan-functionalized aniline trimer based self-healing polymers exhibiting high efficiency of anticorrosion. <i>Polymer</i> , 2017, 125, 227-233. | 1.8 | 35 |
| 112 | Organic solvent-resistant and thermally stable polymeric microfiltration membranes based on crosslinked polybenzoxazine for size-selective particle separation and gravity-driven separation on oil-water emulsions. <i>Journal of Membrane Science</i> , 2018, 550, 18-25. | 4.1 | 35 |
| 113 | Polyimides possessing bulky phosphorus groups: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2003, 89, 791-796. | 1.3 | 34 |
| 114 | Using diethylphosphites as thermally latent curing agents for epoxy compounds. <i>Journal of Polymer Science Part A</i> , 2003, 41, 432-440. | 2.5 | 34 |
| 115 | Superhydrophobic waxy-dendron-grafted polymer films via nanostructure manipulation. <i>Journal of Materials Chemistry</i> , 2009, 19, 4819. | 6.7 | 34 |
| 116 | Thermosetting resins with high fractions of free volume and inherently low dielectric constants. <i>Chemical Communications</i> , 2015, 51, 12760-12763. | 2.2 | 34 |
| 117 | Sulfonated poly(phthalazinone ether ketone) for proton exchange membranes in direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2005, 265, 108-114. | 4.1 | 33 |
| 118 | Poly(2,6-dimethyl-1,4-phenylene oxide) (PPO) multi-bonded carbon nanotube (CNT): Preparation and formation of PPO/CNT nanocomposites. <i>Polymer</i> , 2008, 49, 5405-5409. | 1.8 | 33 |
| 119 | Preparation and characterization of hyperbranched polyaspartimides from bismaleimides and triamines. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5921-5928. | 2.5 | 32 |
| 120 | Poly(dimethylsiloxane) Star Polymers Having Nanosized Silica Cores. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1392-1395. | 2.0 | 32 |
| 121 | Rhodamine B-anchored silica nanoparticles displaying white-light photoluminescence and their uses in preparations of photoluminescent polymeric films and nanofibers. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 75-82. | 5.0 | 32 |
| 122 | Phosphorus containing epoxy for flame retardant II: Curing reaction of bis-(3-glycidyl)oxy) phenylphosphine oxide. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1789-1796. | 1.3 | 31 |
| 123 | Preparation and properties of epoxy/amine hybrid resins from in situ polymerization. <i>Journal of Polymer Science Part A</i> , 2004, 42, 1868-1875. | 2.5 | 30 |
| 124 | Direct borohydride fuel cell performance using hydroxide-conducting polymeric nanocomposite electrolytes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1779-1789. | 2.4 | 30 |
| 125 | A Thermally Stable, Combustion-Resistant, and Highly Ion-Conductive Separator for Lithium-Ion Batteries Based on Electrospun Fiber Mats of Crosslinked Polybenzoxazine. <i>Energy Technology</i> , 2016, 4, 551-557. | 1.8 | 30 |
| 126 | Synthesis, thermal properties, and flame retardancy of phosphorus containing polyimides. <i>Journal of Applied Polymer Science</i> , 1997, 63, 875-882. | 1.3 | 29 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Sulfonated poly(aryl ether ether ketone)s containing fluorinated moieties as proton exchange membrane materials. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2299-2310. | 2.4 | 29 |
| 128 | Preparation of phosphorous-containing poly(epichlorohydrin) and polyurethane from a novel synthesis route. <i>Journal of Applied Polymer Science</i> , 2002, 85, 2254-2259. | 1.3 | 28 |
| 129 | Preparation of Amphiphilic Polymer-Functionalized Carbon Nanotubes for Low-Protein-Adsorption Surfaces and Protein-Resistant Membranes. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3642-3647. | 4.0 | 28 |
| 130 | Electrically Driven Biofouling Release of a Poly(tetrafluoroethylene) Membrane Modified with an Electrically Induced Reversibly Cross-Linked Polymer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9918-9925. | 4.0 | 28 |
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