

# Zhenyang Luo

## List of Publications by Year in Descending Order

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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.

37  
papers

353  
citations

11  
h-index

17  
g-index

44  
ext. papers

557  
ext. citations

6.3  
avg, IF

3.91  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 37 | Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors (Adv. Mater. 9/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270074                                       | 24   |           |
| 36 | Novel Intrinsic Self-Healing Poly-Silicone-Urea with Super-Low Ice Adhesion Strength.. <i>Small</i> , <b>2022</b> , e2200532   | 5.32 | 3         |
| 35 | Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors. <i>Advanced Materials</i> , <b>2021</b> , e2108012   | 24   | 5         |
| 34 | Sustainable Thermoplastic Elastomers Derived from Lignin Bio-Oils via an ABA Triblock Copolymer Strategy. <i>Macromolecular Chemistry and Physics</i> , <b>2021</b> , 222, 2100055   | 2.6  | 1         |
| 33 | New Insights into the Quantitative Relationship between Surface Chemistry of Fullerene (C60) and Solubility Parameters and Compatibility with Polymers. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5420-5433  | 3.4  | 1         |
| 32 | Preparation and characterization of tough and highly resilient nanocomposite hydrogels reinforced by surface-grafted cellulose nanocrystals. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51166  | 2.9  | 3         |
| 31 | A new triboelectric nanogenerator with excellent electric breakdown self-healing performance. <i>Nano Energy</i> , <b>2021</b> , 85, 105990  | 17.1 | 14        |
| 30 | Synthetic strategies, properties, and applications of unsaturated main-chain metallopolymers prepared by olefin metathesis polymerization. <i>Polymer Reviews</i> , <b>2021</b> , 61, 415-455  | 14   | 4         |
| 29 | Preparation of a novel lignin-based flame retardant for epoxy resin. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 259, 124101  | 4.4  | 19        |
| 28 | Precisely tailoring the thermodynamic compatibility between single-walled carbon nanotubes and styrene butadiene rubber via fully atomistic molecular dynamics simulation and theoretical approach. <i>Computational Materials Science</i> , <b>2021</b> , 186, 109995 | 3.2  | 1         |
| 27 | Preparation of Poly(Acrylic Acid) Grafted Reduced Graphene Oxide/Polyacrylamide Composite Hydrogels with Good Electronic and Mechanical Properties by in-situ Polymerization. <i>Journal of Macromolecular Science - Physics</i> , <b>2021</b> , 60, 589-602           | 1.4  | 2         |
| 26 | A combined experimental and molecular dynamics simulation study of an intrinsic self-healing polyurethane elastomer based on a dynamic non-covalent mechanism. <i>Soft Matter</i> , <b>2021</b> , 17, 2191-2204  | 3.6  | 3         |
| 25 | Stress-responsive properties of metallocenes in metallopolymers. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 2509-2521  | 4.19 | 6         |
| 24 | Superior thermal stability and smoke suppression of epoxy resin composites with graphene/LDH phosphorus-rich hybrids. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49386   | 2.9  | 4         |
| 23 | Two-step fabrication of lignin-based flame retardant for enhancing the thermal and fire retardancy properties of epoxy resin composites. <i>Polymer Composites</i> , <b>2020</b> , 41, 2025-2035   | 3    | 11        |
| 22 | Microstructure and Thermal and Tensile Properties of Poly(vinyl alcohol) Nanocomposite Films Reinforced by Polyacrylamide Grafted Cellulose Nanocrystals. <i>Journal of Macromolecular Science - Physics</i> , <b>2020</b> , 59, 223-234                               | 1.4  | 6         |
| 21 | Main-Chain Ferrocene-Containing Polymers Prepared by Acyclic Diene Metathesis Polymerization: A Review. <i>Current Organic Chemistry</i> , <b>2020</b> , 24, 1010-1017   | 1.7  | 5         |

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| 20 | Synthesis of Site-specific Charged Metallopolymers via Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization. <i>Polymer</i> , <b>2020</b> , 187, 122095-122095  | 3.9  | 6  |
| 19 | Fabrication of tough, self-recoverable, and electrically conductive hydrogels by in situ reduction of poly(acrylic acid) grafted graphene oxide in polyacrylamide hydrogel matrix. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48781 | 2.9  | 10 |
| 18 | Photo-induced actuator using temperature and light dual responsive azobenzene containing ion gel in ionic liquid. <i>European Polymer Journal</i> , <b>2020</b> , 123, 109446   | 5.2  | 3  |
| 17 | Dual physically crosslinked nanocomposite hydrogels reinforced by poly(N-vinylpyrrolidone) grafted cellulose nanocrystal with high strength, toughness, and rapid self-recovery. <i>Cellulose</i> , <b>2020</b> , 27, 9913-9925                         | 5.5  | 6  |
| 16 | Molecular dynamics simulation insight into the temperature dependence and healing mechanism of an intrinsic self-healing polyurethane elastomer. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 17620-17631                             | 3.6  | 13 |
| 15 | Molecular Dynamics Simulation Study on Two-Component Solubility Parameters of Carbon Nanotubes and Precisely Tailoring the Thermodynamic Compatibility between Carbon Nanotubes and Polymers. <i>Langmuir</i> , <b>2020</b> , 36, 9291-9305             | 4    | 3  |
| 14 | Highly Efficient, Environmentally Friendly Lignin-Based Flame Retardant Used in Epoxy Resin. <i>ACS Omega</i> , <b>2020</b> , 5, 32084-32093  | 3.9  | 17 |
| 13 | A self-healing elastomer based on an intrinsic non-covalent cross-linking mechanism. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15207-15214   | 13   | 53 |
| 12 | Self-Assembly of Diblock Copolymers Containing Thermo- and Photoresponsive Lower Critical Solution Temperature Phase Behavior Polymer with Tunable Assembly Temperature in an Ionic Liquid Mixture. <i>ACS Omega</i> , <b>2019</b> , 4, 11229-11236     | 3.9  | 5  |
| 11 | Tough and self-healable nanocomposite hydrogels from poly(acrylic acid) and polyacrylamide grafted cellulose nanocrystal crosslinked by coordination bonds and hydrogen bonds. <i>Cellulose</i> , <b>2019</b> , 26, 6701-6711                           | 5.5  | 17 |
| 10 | Understanding Mechanism of Adsorption in the Decolorization of Aqueous Methyl Violet (6B) Solution by Okra Polysaccharides: Experiment and Theory. <i>ACS Omega</i> , <b>2019</b> , 4, 17880-17889  | 3.9  | 10 |
| 9  | Temperature dependence of the interfacial bonding characteristics of silica/styrene butadiene rubber composites: a molecular dynamics simulation study.. <i>RSC Advances</i> , <b>2019</b> , 9, 40062-40071   | 3.7  | 11 |
| 8  | Fabrication of mechanically tough and self-recoverable nanocomposite hydrogels from polyacrylamide grafted cellulose nanocrystal and poly(acrylic acid). <i>Carbohydrate Polymers</i> , <b>2018</b> , 198, 1-8  | 10.3 | 45 |
| 7  | Synthesis of Soy-Polyols Using a Continuous Microflow System and Preparation of Soy-based Polyurethane Rigid Foams. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1197-1204   | 8.3  | 35 |
| 6  | Microcrystalline cellulose as reactive reinforcing fillers for epoxidized soybean oil polymer composites. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a  | 2.9  | 16 |
| 5  | Understanding the Self-Healing Mechanism of Polyurethane Elastomer Based on Hydrogen Bonding Interactions through Molecular Dynamics Simulation. <i>Macromolecular Theory and Simulations</i> , 2100051   | 1.5  | 1  |
| 4  | Thermal performance and thermal decomposition kinetics of a novel lignin-based epoxy resin containing phosphorus and nitrogen elements. <i>Journal of Thermal Analysis and Calorimetry</i> , 1  | 4.1  | 1  |
| 3  | Sequence-Controlled Metallopolymers: Synthesis and Properties. <i>Macromolecules</i> ,  | 5.5  | 2  |

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|---|--|------|---|
| 2 | Preparation and application of dielectric polymers with high permittivity and low energy loss: A mini review. <i>Journal of Applied Polymer Science</i> ,52367 | 2.9  | 3 |
| 1 | An Easy-to-Prepare Flexible Dual-Mode Fiber Membrane for Daytime Outdoor Thermal Management. <i>Advanced Fiber Materials</i> ,1                                | 10.9 | 4 |