

Zhenyang Luo

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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	A self-healing elastomer based on an intrinsic non-covalent cross-linking mechanism. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15207-15214	13	53
36	Fabrication of mechanically tough and self-recoverable nanocomposite hydrogels from polyacrylamide grafted cellulose nanocrystal and poly(acrylic acid). <i>Carbohydrate Polymers</i> , 2018 , 198, 1-8	10.3	45
35	Synthesis of Soy-Polyols Using a Continuous Microflow System and Preparation of Soy-based Polyurethane Rigid Foams. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1197-1204	8.3	35
34	Preparation of a novel lignin-based flame retardant for epoxy resin. <i>Materials Chemistry and Physics</i> , 2021 , 259, 124101	4.4	19
33	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> , 2019 , 26, 6701-6711	5.5	17
32	Highly Efficient, Environmentally Friendly Lignin-Based Flame Retardant Used in Epoxy Resin. <i>ACS Omega</i> , 2020 , 5, 32084-32093	3.9	17
31	Microcrystalline cellulose as reactive reinforcing fillers for epoxidized soybean oil polymer composites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	16
30	A new triboelectric nanogenerator with excellent electric breakdown self-healing performance. <i>Nano Energy</i> , 2021 , 85, 105990	17.1	14
29	Molecular dynamics simulation insight into the temperature dependence and healing mechanism of an intrinsic self-healing polyurethane elastomer. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17620-17631	2.6	13
28	Two-step fabrication of lignin-based flame retardant for enhancing the thermal and fire retardancy properties of epoxy resin composites. <i>Polymer Composites</i> , 2020 , 41, 2025-2035	3	11
27	Temperature dependence of the interfacial bonding characteristics of silica/styrene butadiene rubber composites: a molecular dynamics simulation study.. <i>RSC Advances</i> , 2019 , 9, 40062-40071	3.7	11
26	Understanding Mechanism of Adsorption in the Decolorization of Aqueous Methyl Violet (6B) Solution by Okra Polysaccharides: Experiment and Theory. <i>ACS Omega</i> , 2019 , 4, 17880-17889	3.9	10
25	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> , 2020 , 137, 48781	2.9	10
24	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> , 2020 , 59, 223-234	1.4	6
23	Synthesis of Site-specific Charged Metallopolymers via Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization. <i>Polymer</i> , 2020 , 187, 122095-122095	3.9	6
22	Dual physically crosslinked nanocomposite hydrogels reinforced by poly(N-vinylpyrrolidone) grafted cellulose nanocrystal with high strength, toughness, and rapid self-recovery. <i>Cellulose</i> , 2020 , 27, 9913-9925	5.5	6
21	Stress-responsive properties of metallocenes in metallopolymers. <i>Polymer Chemistry</i> , 2021 , 12, 2509-2521	19	6

20	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> , 2019 , 4, 11229-11236	3.9	5
19	Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors. <i>Advanced Materials</i> , 2021 , e2108012	24	5
18	Main-Chain Ferrocene-Containing Polymers Prepared by Acyclic Diene Metathesis Polymerization: A Review. <i>Current Organic Chemistry</i> , 2020 , 24, 1010-1017	1.7	5
17	Superior thermal stability and smoke suppression of epoxy resin composites with graphene/LDH phosphorus-rich hybrids. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49386	2.9	4
16	Synthetic strategies, properties, and applications of unsaturated main-chain metallopolymers prepared by olefin metathesis polymerization. <i>Polymer Reviews</i> , 2021 , 61, 415-455	14	4
15	An Easy-to-Prepare Flexible Dual-Mode Fiber Membrane for Daytime Outdoor Thermal Management. <i>Advanced Fiber Materials</i> , ¹	10.9	4
14	Photo-induced actuator using temperature and light dual responsive azobenzene containing ion gel in ionic liquid. <i>European Polymer Journal</i> , 2020 , 123, 109446	5.2	3
13	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> , 2020 , 36, 9291-9305	4	3
12	Preparation and characterization of tough and highly resilient nanocomposite hydrogels reinforced by surface-grafted cellulose nanocrystals. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51166	2.9	3
11	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> , 2021 , 17, 2191-2204 ^{3.6}	3.6	3
10	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
9	Novel Intrinsic Self-Healing Poly-Silicone-Urea with Super-Low Ice Adhesion Strength.. <i>Small</i> , 2022 , e2200532	5.32	3
8	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> , 2021 , 60, 589-602	1.4	2
7	Sequence-Controlled Metallopolymers: Synthesis and Properties. <i>Macromolecules</i> ,	5.5	2
6	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
5	Sustainable Thermoplastic Elastomers Derived from Lignin Bio-Oils via an ABA Triblock Copolymer Strategy. <i>Macromolecular Chemistry and Physics</i> , 2021 , 222, 2100055	2.6	1
4	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> , 2021 , 125, 5420-5433 ^{3.4}	3.4	1
3	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

- 2 Precisely tailoring the thermodynamic compatibility between single-walled carbon nanotubes and styrene butadiene rubber via fully atomistic molecular dynamics simulation and theoretical approach. *Computational Materials Science*, **2021**, 186, 109995 3.2 1
- 1 Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors (Adv. Mater. 9/2022). *Advanced Materials*, **2022**, 34, 2270074 24