Tuan Liu

List of Publications by Year in descending order

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THANLIN

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Eugenol-Derived Biobased Epoxy: Shape Memory, Repairing, and Recyclability. Macromolecules, 2017, 50, 8588-8597. | 2.2 | 316 |
| 2 | A Catalyst-Free Epoxy Vitrimer System Based on Multifunctional Hyperbranched Polymer. Macromolecules, 2018, 51, 6789-6799. | 2.2 | 234 |
| 3 | A Self-Healable High Glass Transition Temperature Bioepoxy Material Based on Vitrimer Chemistry. Macromolecules, 2018, 51, 5577-5585. | 2.2 | 224 |
| 4 | Preparation of a lignin-based vitrimer material and its potential use for recoverable adhesives. Green Chemistry, 2018, 20, 2995-3000. | 4.6 | 222 |
| 5 | Recent development of repairable, malleable and recyclable thermosetting polymers through dynamic transesterification. Polymer, 2020, 194, 122392. | 1.8 | 191 |
| 6 | Catalyst-free vitrimer elastomers based on a dimer acid: robust mechanical performance, adaptability and hydrothermal recyclability. Green Chemistry, 2020, 22, 870-881. | 4.6 | 124 |
| 7 | Triethanolamine-Mediated Covalent Adaptable Epoxy Network: Excellent Mechanical Properties, Fast Repairing, and Easy Recycling. Macromolecules, 2020, 53, 3110-3118. | 2.2 | 118 |
| 8 | Hyperbranched polyether as an all-purpose epoxy modifier: controlled synthesis and toughening mechanisms. Journal of Materials Chemistry A, 2015, 3, 1188-1198. | 5.2 | 114 |
| 9 | Selective cleavage of ester linkages of anhydride-cured epoxy using a benign method and reuse of the decomposed polymer in new epoxy preparation. Green Chemistry, 2017, 19, 4364-4372. | 4.6 | 113 |
| 10 | Glycerol Induced Catalystâ€Free Curing of Epoxy and Vitrimer Preparation. Macromolecular Rapid Communications, 2019, 40, e1800889. | 2.0 | 108 |
| 11 | Mild chemical recycling of aerospace fiber/epoxy composite wastes and utilization of the decomposed resin. Polymer Degradation and Stability, 2017, 139, 20-27. | 2.7 | 107 |
| 12 | Eco-friendly post-consumer cotton waste recycling for regenerated cellulose fibers. Carbohydrate Polymers, 2019, 206, 141-148. | 5.1 | 100 |
| 13 | A Highâ€Ligninâ€Content, Removable, and Glycolâ€Assisted Repairable Coating Based on Dynamic Covalent Bonds. ChemSusChem, 2019, 12, 1049-1058. | 3.6 | 89 |
| 14 | Fluorescent aliphatic hyperbranched polyether: chromophore-free and without any N and P atoms. Physical Chemistry Chemical Physics, 2016, 18, 4295-4299. | 1.3 | 79 |
| 15 | Temperature and pH Responsive Hydrogels Using Methacrylated Lignosulfonate Cross-Linker: Synthesis, Characterization, and Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 1763-1771. | 3.2 | 78 |
| 16 | Thiol–Ene Synthesis of Cysteine-Functionalized Lignin for the Enhanced Adsorption of Cu(II) and Pb(II). Industrial & Engineering Chemistry Research, 2018, 57, 7872-7880. | 1.8 | 55 |
| 17 | Hempseed Oil-Based Covalent Adaptable Epoxy-Amine Network and Its Potential Use for Room-Temperature Curable Coatings. ACS Sustainable Chemistry and Engineering, 2020, 8, 14964-14974. | 3.2 | 51 |
| 18 | Nitrogen-Free Tetrafunctional Epoxy and Its DDS-Cured High-Performance Matrix for Aerospace Applications. Industrial & Engineering Chemistry Research, 2017, 56, 7708-7719. | 1.8 | 50 |

Tuan Liu

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|----|--|-----|-----------|
| 19 | Dependence of epoxy toughness on the backbone structure of hyperbranched polyether modifiers. RSC Advances, 2015, 5, 3408-3416. | 1.7 | 49 |
| 20 | Hyperbranched Polymer Assisted Curing and Repairing of an Epoxy Coating. Industrial & Engineering Chemistry Research, 2019, 58, 6466-6475. | 1.8 | 45 |
| 21 | Use of Hempseed-Oil-Derived Polyacid and Rosin-Derived Anhydride Acid as Cocuring Agents for Epoxy Materials. ACS Sustainable Chemistry and Engineering, 2018, 6, 4016-4025. | 3.2 | 43 |
| 22 | From Glassy Plastic to Ductile Elastomer: Vegetable Oil-Based UV-Curable Vitrimers and Their Potential Use in 3D Printing. ACS Applied Polymer Materials, 2021, 3, 2470-2479. | 2.0 | 43 |
| 23 | Carbon Fiber Reinforced Epoxy Vitrimer: Robust Mechanical Performance and Facile Hydrothermal Decomposition in Pure Water. Macromolecular Rapid Communications, 2021, 42, e2000458. | 2.0 | 42 |
| 24 | Unusual strong fluorescence of a hyperbranched phosphate: discovery and explanations. RSC Advances, 2013, 3, 8269. | 1.7 | 33 |
| 25 | Environmentally friendly high performance homopolymerized epoxy using hyperbranched epoxy as a modifier. RSC Advances, 2016, 6, 14211-14221. | 1.7 | 24 |
| 26 | Liquid Crystalline Elastomers Based on Click Chemistry. ACS Applied Materials & Interfaces, 2022, 14, 14842-14858. | 4.0 | 20 |
| 27 | A renewable dynamic covalent network based on itaconic anhydride crosslinked polyglycerol: Adaptability, UV blocking and fluorescence. Chemical Engineering Journal, 2020, 385, 123960. | 6.6 | 19 |
| 28 | Preparation and Characterization of Electrospun Conductive Janus Nanofibers with Polyaniline. ACS Applied Polymer Materials, 2020, 2, 2819-2829. | 2.0 | 19 |
| 29 | Improving Grafting Efficiency of Dicarboxylic Anhydride Monomer on Polylactic Acid by Manipulating Monomer Structure and Using Comonomer and Reducing Agent. Industrial & Engineering Chemistry Research, 2017, 56, 3920-3927. | 1.8 | 16 |
| 30 | Tertiary-amine-free, non-planar, fluorine-containing tetrafunctional epoxy and its application as high performance matrix. Polymer Testing, 2018, 71, 38-48. | 2.3 | 16 |
| 31 | Recyclable CFRPs with extremely high <i>T</i> _g : hydrothermal recyclability in pure water and upcycling of the recyclates for new composite preparation. Journal of Materials Chemistry A, 2022, 10, 15623-15633. | 5.2 | 15 |
| 32 | Hyperbranched polyethers with tunable glass transition temperature: controlled synthesis and mixing rules. RSC Advances, 2014, 4, 30250-30258. | 1.7 | 14 |
| 33 | Styrene-Free Soybean Oil Thermoset Composites Reinforced by Hybrid Fibers from Recycled and Natural Resources. ACS Sustainable Chemistry and Engineering, 2019, 7, 17808-17816. | 3.2 | 13 |
| 34 | Combined light- and heat-induced shape memory behavior of anthracene-based epoxy elastomers. Scientific Reports, 2020, 10, 20214. | 1.6 | 13 |
| 35 | Liquid crystalline networks based on photo-initiated thiol–ene click chemistry. Soft Matter, 2020, 16, 1760-1770. | 1.2 | 12 |
| 36 | Robust supramolecular composite hydrogels for sustainable and "visible―agriculture irrigation. Journal of Materials Chemistry A, 2021, 9, 24613-24621. | 5.2 | 11 |

Tuan Liu

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|----|--|-----|-----------|
| 37 | An intrinsic white-light-emitting hyperbranched polyimide: synthesis, structure–property and its application as a "turn-off―sensor for iron(iii) ions. Journal of Materials Chemistry C, 2019, 7, 14320-14333. | 2.7 | 8 |
| 38 | Shape memory Poly(lactic acid) binary blends with unusual fluorescence. Polymer, 2020, 209, 122980. | 1.8 | 8 |
| 39 | Biobased miktoarm star copolymer from soybean oil, isosorbide, and caprolactone. Journal of Applied Polymer Science, 2020, 137, 48281. | 1.3 | 7 |
| 40 | Control-synthesized multilayer hyperbranched–hyperbranched polyethers with a tunable molecular weight and an invariant degree of branching. New Journal of Chemistry, 2016, 40, 3432-3439. | 1.4 | 6 |
| 41 | Tetrafunctional epoxy as an allâ€purpose modifier for homopolymerized bisphenol A diglycidyl ether. Journal of Applied Polymer Science, 2018, 135, 46431. | 1.3 | 4 |
| 42 | Catalytic Conversion of Biomass-Derived 1,2-Propanediol to Propylene Oxide over Supported Solid-Base Catalysts. ACS Omega, 2018, 3, 8718-8723. | 1.6 | 4 |
| 43 | Fully Eugenolâ€Based Epoxy Thermosets: Synthesis, Curing, and Properties. Macromolecular Materials and Engineering, 2022, 307, . | 1.7 | 3 |