

# Junying Zhang

## List of Publications by Year in descending order

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70  
papers

1,597  
citations

257450

24  
h-index

361022

35  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1442  
citing authors

#	ARTICLE	IF	CITATIONS
1	A renewable resveratrol-based epoxy resin with high T <sub>g</sub> , excellent mechanical properties and low flammability. <i>Chemical Engineering Journal</i> , 2020, 383, 123124.	12.7	135
2	Facile Strategy in Designing Epoxy/Paraffin Multiple Phase Change Materials for Thermal Energy Storage Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3375-3384.	6.7	78
3	A fully biomass based monomer from itaconic acid and eugenol to build degradable thermosets via thiol-ene click chemistry. <i>Green Chemistry</i> , 2020, 22, 921-932.	9.0	67
4	Study on a reliable epoxy-based phase change material: facile preparation, tunable properties, and phase/microphase separation behavior. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14562-14574.	10.3	57
5	Superhydrophobic, multi-responsive and flexible bottlebrush-network-based form-stable phase change materials for thermal energy storage and sprayable coatings. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22315-22326.	10.3	51
6	Malleable, Recyclable, and Robust Poly(amide-imine) Vitrimers Prepared through a Green Polymerization Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5673-5683.	6.7	47
7	3D Printable, Recyclable and Adjustable Comb/Bottlebrush Phase Change Polysiloxane Networks toward Sustainable Thermal Energy Storage. <i>Energy Storage Materials</i> , 2021, 39, 294-304.	18.0	43
8	Crystallizable and tough aliphatic thermoplastic poly(ether urethane)s synthesized through a non-isocyanate route. <i>RSC Advances</i> , 2014, 4, 43406-43414.	3.6	42
9	Recyclable, shape-memory, and self-healing soy oil-based polyurethane crosslinked by a thermoreversible Diels-Alder reaction. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46049.	2.6	40
10	Preparation and shape memory properties of rigid-flexible integrated epoxy resins via tunable micro-phase separation structures. <i>Polymer</i> , 2019, 178, 121592.	3.8	40
11	Recyclable Diels-Alder Furan/Maleimide Polymer Networks with Shape Memory Effect. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16156-16163.	3.7	39
12	Synthesis of Eugenol-Based Polyols via Thiol-ene Click Reaction and High-Performance Thermosetting Polyurethane Therefrom. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4158-4166.	6.7	39
13	Insights into the Vulcanization Mechanism through a Simple and Facile Approach to the Sulfur Cleavage Behavior. <i>Macromolecules</i> , 2017, 50, 803-810.	4.8	38
14	Aliphatic thermoplastic polyurethane-ureas and polyureas synthesized through a non-isocyanate route. <i>RSC Advances</i> , 2015, 5, 6843-6852.	3.6	36
15	Synthesis and characterization of aliphatic segmented poly(ether amide urethane)s through a non-isocyanate route. <i>RSC Advances</i> , 2014, 4, 23720.	3.6	33
16	Influence of cross-linking density on the structure and properties of the interphase within supported ultrathin epoxy films. <i>Journal of Materials Science</i> , 2016, 51, 9019-9030.	3.7	33
17	Robust, Multiresponsive, Superhydrophobic, and Oleophobic Nanocomposites via a Highly Efficient Multifluorination Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28949-28961.	8.0	31
18	Curing kinetics and shape-memory behavior of an intrinsically toughened epoxy resin system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 537-546.	3.6	30

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19	High mechanical properties of epoxy networks with dangling chains and tunable microphase separation structure. <i>RSC Advances</i> , 2017, 7, 49074-49082.	3.6	30
20	Direct synthesis and characterization of crosslinked polysiloxanes via anionic ring-opening copolymerization with octaisobutyl-polyhedral oligomeric silsesquioxane and octamethylcyclotetrasiloxane. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3848-3856.	2.6	28
21	Thermal, mechanical and shape memory properties of an intrinsically toughened epoxy/anhydride system. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	27
22	Epoxy/polysiloxane intimate intermixing networks driven by intrinsic motive force to achieve ultralow-temperature damping properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17549-17562.	10.3	27
23	From biomass resources to functional materials: A fluorescent thermosetting material based on resveratrol via thiol-ene click chemistry. <i>European Polymer Journal</i> , 2020, 123, 109416.	5.4	26
24	Polymer Encapsulation Strategy toward 3D Printable, Sustainable, and Reliable Form-Stable Phase Change Materials for Advanced Thermal Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 4251-4264.	8.0	26
25	Novel polymethoxysiloxane-based crosslinking reagent and its <i>in situ</i> improvement for thermal and mechanical properties of siloxane elastomer. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3788-3795.	2.6	25
26	Characteristics of water absorption in amine-cured epoxy networks: a molecular simulation and experimental study. <i>Soft Matter</i> , 2018, 14, 8740-8749.	2.7	25
27	Synthesis and characterization of aliphatic poly(amide urethane)s having different nylon 6 segments through non-isocyanate route. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	24
28	Effects of the furan ring in epoxy resin on the thermomechanical properties of highly cross-linked epoxy networks: a molecular simulation study. <i>RSC Advances</i> , 2016, 6, 769-777.	3.6	23
29	Preparation and properties of self-healing cross-linked polyurethanes based on blocking and deblocking reaction. <i>Reactive and Functional Polymers</i> , 2019, 144, 104347.	4.1	22
30	Reworkable adhesives: Healable and fast response at ambient environment based on anthracene-based thiol-ene networks. <i>European Polymer Journal</i> , 2020, 137, 109927.	5.4	21
31	Study on curing kinetics of diglycidyl 1,2-cyclohexane dicarboxylate epoxy/episulfide resin system with hexahydro-4-methylphthalic anhydride as a curing agent. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1893-1903.	3.6	20
32	Latent curing epoxy systems with reduced curing temperature and improved stability. <i>Thermochimica Acta</i> , 2019, 676, 130-138.	2.7	20
33	Study on the dual-curing mechanism of epoxy/allyl compound/sulfur system. <i>Journal of Materials Science</i> , 2016, 51, 7887-7898.	3.7	19
34	The Chromogen, Structure, Inspirations, and Applications of a Photo-, pH-, thermal-, Solvent-, and Mechanical-Response Epoxy Resin. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 13283-13290.	3.7	19
35	A resveratrol-based epoxy resin with ultrahigh T <sub>g</sub> and good processability. <i>European Polymer Journal</i> , 2021, 147, 110282.	5.4	19
36	A biomass-based Schiff base vitrimer with both excellent performance and multiple degradability. <i>Polymer Chemistry</i> , 2021, 12, 6527-6537.	3.9	19

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37	Bio-based recyclable Form-Stable phase change material based on thermally reversible Diels-Alder reaction for sustainable thermal energy storage. <i>Chemical Engineering Journal</i> , 2022, 448, 137749.	12.7	19
38	Synthesis and properties of non-isocyanate aliphatic thermoplastic polyurethane elastomers with polycaprolactone soft segments. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	18
39	Effects of Regular Networks Composed of Rigid and Flexible Segments on the Shape Memory Performance of Epoxies. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 7898-7904.	3.7	18
40	A novel crosslinking agent of polymethyl(ketoxime)siloxane for room temperature vulcanized silicone rubbers: synthesis, properties and thermal stability. <i>RSC Advances</i> , 2018, 8, 12517-12525.	3.6	17
41	Low dielectric constant and viscosity tetrafunctional bio-based epoxy resin containing cyclic siloxane blocks. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	15
42	Quantitative evaluation of the non-thermal effect in microwave induced polymer curing. <i>RSC Advances</i> , 2021, 11, 3740-3750.	3.6	14
43	Synthesis and properties of segmented polyurethanes with hydroquinone ether derivatives as chain extender. <i>Journal of Polymer Research</i> , 2015, 22, 1.	2.4	13
44	Synthesis, characterization, and cure kinetics analysis of high refractive index copolysiloxanes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 875-883.	3.6	12
45	Thermally Reversible Crosslinked Polyurethanes Based on Blocking and Deblocking Reaction. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900782.	3.6	12
46	High-performance, multi-functional and well-dispersed graphene/epoxy nanocomposites via internal antiplasticization and H-F interactions. <i>Composites Science and Technology</i> , 2021, 215, 109008.	7.8	12
47	A facile method for fabrication of titanium-doped hybrid materials with high refractive index. <i>RSC Advances</i> , 2014, 4, 13909-13918.	3.6	11
48	A Newly Designed Dual-Functional Epoxy Monomer for Preparation of Fishbone-Shaped Heterochain Polymer with a High Damping Property at Low Temperature. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600574.	3.6	11
49	An Efficiently Reworkable Thermosetting Adhesive Based on Photoreversible [4+4] Cycloaddition Reaction of Epoxy-Based Prepolymer with Four Anthracene End Groups. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2000298.	2.2	11
50	Preparation of thermal plastic polyurethane-polystyrene block copolymer via UV irradiation polymerization. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	9
51	Synthesis and properties of strong and tough Diels-Alder self-healing crosslinked polyamides. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	9
52	A Bio-based healable/renewable polyurethane elastomer derived from L-Tyrosine/Vanillin/Dimer acid. <i>Chemical Engineering Science</i> , 2022, 258, 117736.	3.8	9
53	The well-designed hierarchical structure of <i>Musa basjoo</i> for supercapacitors. <i>Scientific Reports</i> , 2016, 6, 20306.	3.3	8
54	Biobased Linear and Crystallizable Polyhydroxy(amide-urethane)s from Diglycerol Bis(cyclic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	4.4	8

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55	Study on the synthesis of thiirane. <i>Journal of Applied Polymer Science</i> , 2006, 101, 4023-4027.	2.6	7
56	Structure-Property Relationship of Polyimide Fibers with High Tensile Strength and Low Dielectric Constant by Introducing Benzimidazole and Trifluoromethyl Units. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000705.	3.6	7
57	Influences of different imidization conditions on polyimide fiber properties and structure. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51189.	2.6	7
58	Comparative curing kinetics of 1,4-bis (4-diaminobenzene-1-oxygen) n-butane and 4,4'-bis-(diaminodiphenyl) methane with tetraglycidyl methylene dianiline systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 603-610.	3.6	6
59	Miscibility, morphology, structure, and properties of porous cellulose-“soy protein isolate hybrid hydrogels. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	6
60	Preparation and Properties of a Self-Healing, Multiresponsive Color-Change Hydrogel. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 10689-10696.	3.7	6
61	Thermo-mechanically improved curcumin and zwitterion incorporated polyurethane-urea elastomers. <i>Polymer Degradation and Stability</i> , 2019, 164, 28-35.	5.8	5
62	Bio-based cross-linked polyitaconamides synthesized through a Michael ene-amine addition and bulk polycondensation. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	5
63	Aliphatic segmented poly(ether ester amide)s synthesized from hexanediamine, sebacic acid and poly(ethylene glycol)s. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 505-511.	2.6	4
64	Two Branched Silicone Resins with Different Reactive Groups: A Comparative Evaluation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 5606-5615.	3.7	4
65	The Miscibility of Novel Bisphenol-Propylene Epoxy Resin With Liquid NBR. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 1181-1196.	2.6	3
66	Synthesis and properties of non-isocyanate thermoplastic polyurethanes containing dibutylene terephthalate units. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	3
67	Synthesis and Properties of Non-isocyanate Crystallizable Aliphatic Thermoplastic Polyurethanes. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 1275-1280.	1.0	3
68	Thermoplastic polyurethane with good mechanical and processing performances via blocking and deblocking of isocyanates. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51315.	2.6	3
69	Molecular dynamics simulation of thermo-mechanical behaviour of elastomer cross-linked <i>via</i> multifunctional zwitterions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21615-21625.	2.8	2
70	Synthesis and characterization of biodegradable alternating polyesteramides from mixed diamidediols and sebacic acid. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 168-175.	2.6	1