Zhiyong Wei

List of Publications by Year
in descending order

114 papers	2,599 citations	201674 27 h-index	243625 44 g-index
117 all docs	117 docs citations	117 times ranked	2938 citing authors

#	Article	IF	Citations
1	Biodegradable Ru-Containing Polycarbonate Micelles for Photoinduced Anticancer Multitherapeutic Agent Delivery and Phototherapy Enhancement. Biomacromolecules, 2022, 23, 1733-1744.	5.4	8
2	Ring opening copolymerization of Î´-valerolactone with 2-methyl-1,3-dioxane-4-one towards poly(3-hydroxypropionate-co-5-hydroxyvalerate) copolyesters. Polymer Chemistry, 2022, 13, 2132-2142.	3.9	4
3	Biodegradable PBAT/PLA/CaCO₃ Blowing Films with Enhanced Mechanical and Barrier Properties: Investigation of Size and Content of CaCO₃ Particles. Macromolecular Materials and Engineering, 2022, 307, .	3.6	9
4	Inherently radiopaque polyurethane beads as potential multifunctional embolic agent in hepatocellular carcinoma therapy. Journal of Materials Science and Technology, 2021, 63, 106-114.	10.7	2
5	Photoresponsive metallopolymer nanoparticles for cancer theranostics. Biomaterials, 2021, 275, 120915.	11.4	28
6	Kilogram-Scale Production of Sustainable PCF Copolyesters Based on Novel Cyclic Diol THFDM Derived from 5-Hydroxymethylfurfural: Trade-Off between the THFDM Structure and Various Properties of Copolyesters. ACS Sustainable Chemistry and Engineering, 2021, 9, 13287-13302.	6.7	8
7	A Sequential Dualâ€Model Strategy Based on Photoactivatable Metallopolymer for Onâ€Demand Release of Photosensitizers and Anticancer Drugs. Advanced Science, 2021, 8, e2103334.	11.2	24
8	Kilogram-scale preparation of sustainable PETG modified with a biobased cyclic diol derived from 5-hydroxymethylfurfural: From synthesis to properties. European Polymer Journal, 2021, 161, 110832.	5.4	5
9	Biodegradable PGA/PBAT Blends for 3D Printing: Material Performance and Periodic Minimal Surface Structures. Polymers, 2021, 13, 3757.	4.5	21
10	Biobased unsaturated polyesters containing trans-2-butene-1,4 -diol and various dicarboxylic acids: Synthesis, characterization, and thermo-mechanical properties. Reactive and Functional Polymers, 2021, 169, 105091.	4.1	3
11	Trans-2-Butene-1,4-Diol as an Olefinic Building Block to Prepare Biobased Unsaturated Copolyesters with High Molecular Weight: Synthesis, Characterization, and Physical Properties. ACS Sustainable Chemistry and Engineering, 2021, 9, 16699-16708.	6.7	9
12	Prediction of the auto-ignition temperature of binary liquid mixtures based on the quantitative structureâ€“property relationship approach. Journal of Thermal Analysis and Calorimetry, 2020, 140, 397-409.	3.6	7
13	Biobased oddâ€“odd poly(propylene dicarboxylate)s. Journal of Thermal Analysis and Calorimetry, 2020, 140, 199-211.	3.6	2
14	In-chain functionalization through the combination of ring opening copolymerization and oxime â€œClickâ€•reaction towards X-ray opaque polylactide copolymers. Chinese Chemical Letters, 2020, 31, 551-553.	9.0	7
15	A biobased aliphatic polyester derived from 10-hydroxydecanoic acid: Molecular weight dependence of physical properties. Polymer Testing, 2020, 82, 106295.	4.8	8
16	ABA Triblock Copolyesters Composed of Poly(L-lactide) A Hard Blocks: Long Chain Aliphatic Polyesters as B Soft Midblocks. Journal of Polymers and the Environment, 2020, 28, 1420-1430.	5.0	2
17	Cover Image, Volume 69, Issue 4. Polymer International, 2020, 69, i.	3.1	0
18	InÂvitro degradation and biocompatibility evaluation of fully biobased thermoplastic elastomers consisting of poly(Î²-myrcene) and poly(-lactide) as stent coating. Polymer Degradation and Stability, 2020, 179, 109254.	5.8	11

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19	Linear- and star-brush poly(ethylene glycol)s: Synthesis and architecture-dependent crystallization behavior. Polymer, 2020, 202, 122661.	3.8	0
20	Amino acid complexes with tin as a new class of catalysts with high reactivity and low toxicity towards biocompatible aliphatic polyesters. Polymer Journal, 2020, 52, 567-574.	2.7	7
21	Fully biobased biodegradable poly(<scp>l</scp>â€lactide)â€bâ€poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 relationship between crystallization morphology and thermal properties. Polymer International, 2020, 69, 363-372.	3.1	11
22	ABA triblock copolyesters composed of poly(l-lactide) A hard blocks: A comparative study of amorphous and crystalline aliphatic polyesters as B soft blocks. Polymer Testing, 2020, 83, 106348.	4.8	10
23	ABA triblock copolyesters composed of poly(l-lactide) A hard blocks: comparison of amorphous and crystalline unsaturated aliphatic polyesters as B soft blocks. Journal of Materials Science, 2020, 55, 9129-9143.	3.7	8
24	X-ray visible microspheres derived from highly branched biodegradable poly(lactic acid) terminated by triiodobenzoic acid: Preparation and degradation behavior. Polymer Degradation and Stability, 2020, 176, 109149.	5.8	4
25	End-Chain Fluorescent Highly Branched Poly(<scp>l</scp>-lactide)s: Synthesis, Architecture-Dependence, and Fluorescent Visible Paclitaxel-Loaded Microspheres. Biomacromolecules, 2019, 20, 3952-3968.	5.4	6
26	Isodimorphic aliphatic copolyester as midblock of poly(l-lactide)-based triblock copolymers towards largely enhanced impact toughness. European Polymer Journal, 2019, 111, 28-37.	5.4	10
27	Biobased long-chain aliphatic polyesters of 1,12-dodecanedioic acid with a variety of diols: Odd-even effect and mechanical properties. Materials Today Communications, 2019, 19, 450-458.	1.9	33
28	Development of zinc salts of amino acids as a new class of biocompatible nucleating agents for poly(l-lactide). European Polymer Journal, 2019, 118, 337-346.	5.4	18
29	A Strategy of In Situ Catalysis and Nucleation of Biocompatible Zinc Salts of Amino Acids towards Poly(l-lactide) with Enhanced Crystallization Rate. Polymers, 2019, 11, 790.	4.5	4
30	High Molecular Weight Unsaturated Copolyesters Derived from Fully Biobased trans-Î²-Hydromuconic Acid and Fumaric Acid with 1,4-Butanediol: Synthesis and Thermomechanical Properties. ACS Sustainable Chemistry and Engineering, 2019, 7, 6859-6869.	6.7	18
31	Development of biodegradable polyesters based on a hydroxylated coumarin initiator towards fluorescent visible paclitaxel-loaded microspheres. Journal of Materials Chemistry B, 2019, 7, 2261-2276.	5.8	8
32	Hydrolytic Degradation of Comb-Like Graft Poly (Lactide-co-Trimethylene Carbonate): The Role of Comonomer Compositions and Sequences. Polymers, 2019, 11, 2024.	4.5	5
33	Synthesis, microstructure and mechanical properties of partially biobased biodegradable poly(ethylene brassylate-co-Îµ-caprolactone) copolyesters. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 255-265.	3.1	13
34	Fully biobased thermoplastic elastomers: Synthesis of highly branched linear comb poly(Î²-myrcene)-graft-poly(l-lactide) copolymers with tunable mechanical properties. Polymer, 2018, 138, 57-64.	3.8	38
35	Fully biobased thermoplastic elastomers: Synthesis of highly branched star comb poly(Î²-myrcene)-graft-poly(l-lactide) copolymers with tunable mechanical properties. European Polymer Journal, 2018, 99, 477-484.	5.4	22
36	Experimental measurements and numerical calculation of auto-ignition temperatures for binary miscible liquid mixtures. Chemical Engineering Research and Design, 2018, 113, 22-29.	5.6	7

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37	Temperature-dependent polymorphic crystallization of poly(l-lactide)s on the basis of optical purity and microstructure. Polymer, 2018, 134, 163-174.	3.8	26
38	Toughening polylactide with epoxidized styreneâ€“butadiene impact resin: Mechanical, morphological, and rheological characterization. Journal of Applied Polymer Science, 2018, 135, 46058.	2.6	1
39	Facile preparation of stereochemistry-controllable biobased poly(butylene maleate-co-butylene) Tj ETQq1 1 0.784314 rgBT /Overl functionalization via aza-Michael addition. Polymer Chemistry, 2018, 9, 5426-5441.	3.9	27
40	Development of X-ray opaque poly(lactic acid) end-capped by triiodobenzoic acid towards non-invasive micro-CT imaging biodegradable embolic microspheres. European Polymer Journal, 2018, 108, 337-347.	5.4	8
41	Crystallization Behavior of Semicrystalline Polymers in the Presence of Nucleation Agent. , 2018, , 433-469.		5
42	Crystallization and mechanical properties of basalt fiber-reinforced polypropylene composites with different elastomers. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1531-1543.	3.6	29
43	Highly branched linear-comb random copolyesters of Îµ-caprolactone and Î´-valerolactone: Isodimorphism, mechanical properties and enzymatic degradation behavior. Polymer Degradation and Stability, 2018, 155, 173-182.	5.8	21
44	Competition and miscibility of isodimorphism and their effects on band spherulites and mechanical properties of poly(butylene succinate-co-cis-butene succinate) unsaturated aliphatic copolyesters. Polymer, 2018, 150, 52-63.	3.8	30
45	Copolymerization of ethylene brassylate with Î´-valerolactone towards isodimorphic random copolyesters with continuously tunable mechanical properties. European Polymer Journal, 2018, 102, 90-100.	5.4	26
46	Effect of chain length of comonomeric diols on competition and miscibility of isodimorphism: A comparative study of poly(butylene glutarate-co-butylene azelate) and poly(octylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 327 Td (glut	3.4	26
47	Relationship between melting behavior and morphological changes of semicrystalline polymers. Journal of Thermal Analysis and Calorimetry, 2017, 129, 777-787.	3.6	7
48	Miscibility and competition of cocrystallization behavior of poly(hexamethylene dicarboxylate)s aliphatic copolyesters: Effect of chain length of aliphatic diacids. European Polymer Journal, 2017, 92, 71-85.	5.4	41
49	Unique isodimorphism and isomorphism behaviors of even-odd poly(hexamethylene dicarboxylate) aliphatic copolyesters. Polymer, 2017, 115, 106-117.	3.8	36
50	Synthesis of Star-Comb Double Crystalline Diblock Copolymer of Poly(Îµ-caprolactone)-block-poly(<scp>l</scp>-lactide): Effect of Chain Topology on Crystallization Behavior. Macromolecular Chemistry and Physics, 2017, 218, 1700178.	2.2	8
51	Insight into the role of bound water of a nucleating agent in polymer nucleation: a comparative study of anhydrous and monohydrated orotic acid on crystallization of poly(<scp>l</scp>-lactic acid). RSC Advances, 2017, 7, 27150-27161.	3.6	14
52	Progress in biodegradable zwitterionic materials. Polymer Degradation and Stability, 2017, 139, 1-19.	5.8	24
53	Thermal Hazard of Ionic Liquids: Modeling Thermal Decomposition Temperatures of Imidazolium Ionic Liquids via QSPR Method. Industrial & Engineering Chemistry Research, 2017, 56, 4185-4195.	3.7	25
54	X-ray visible and doxorubicin-loaded beads based on inherently radiopaque poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (acid) 1389-1398.	7.3	9

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55	Thermo-oxidative ageing effect on mechanical properties and morphology of short fibre reinforced polyamide composites â€“ comparison of carbon and glass fibres. RSC Advances, 2017, 7, 43334-43344.	3.6	35
56	Predicting the gas-liquid critical temperature of binary mixtures based on the quantitative structure property relationship. Chemometrics and Intelligent Laboratory Systems, 2017, 167, 190-195.	3.5	29
57	Quantitative structure-property relationship (QSPR) study for predicting gas-liquid critical temperatures of organic compounds. Thermochimica Acta, 2017, 655, 112-116.	2.7	28
58	Silane-Treated Basalt Fiberâ€“Reinforced Poly(butylene succinate) Biocomposites: Interfacial Crystallization and Tensile Properties. Polymers, 2017, 9, 351.	4.5	24
59	Predicting the superheat limit temperature of binary mixtures based on the quantitative structure property relationship. Journal of Loss Prevention in the Process Industries, 2016, 43, 432-437.	3.3	9
60	Relationships between Architectures and Properties of Highly Branched Polymers: The Cases of Amorphous Poly(trimethylene carbonate) and Crystalline Poly(Îµ-caprolactone). Journal of Physical Chemistry B, 2016, 120, 4078-4090.	2.6	16
61	Synthesis of highly branched poly(Î´-valerolactone)s: a comparative study between comb and linear analogues. RSC Advances, 2016, 6, 45791-45801.	3.6	19
62	A comparative study of the crystalline structure and mechanical properties of carbon fiber/polyamide 6 composites enhanced with/without silane treatment. RSC Advances, 2016, 6, 107739-107747.	3.6	37
63	Highly toughened polylactide/epoxidized poly(styrene-b-butadiene-b-styrene) blends with excellent tensile performance. European Polymer Journal, 2016, 85, 92-104.	5.4	32
64	Highly toughened polylactide with epoxidized polybutadiene by in-situ reactive compatibilization. Polymer, 2016, 92, 74-83.	3.8	54
65	Copolymerization of <scp>l</scp>-lactide/trimethylene carbonate by organocatalysis: controlled synthesis of comb-like graft copolymers with side chains with different topologies. RSC Advances, 2016, 6, 40371-40382.	3.6	13
66	Fully biobased thermoplastic elastomers: synthesis and characterization of poly(<scp>l</scp>-lactide)-b-polymyrcene-b-poly(<scp>l</scp>-lactide) triblock copolymers. RSC Advances, 2016, 6, 63508-63514.	3.6	50
67	Synthesis and characterization of random styreneâ€“butadiene copolymer with Nd-based catalyst. Polymer Bulletin, 2016, 73, 509-518.	3.3	1
68	Rheological properties and crystallization behavior of comb-like graft poly(<scp>l</scp>-lactide): influences of graft length and graft density. RSC Advances, 2016, 6, 30320-30329.	3.6	14
69	Development of multifunctional cobalt ferrite/graphene oxide nanocomposites for magnetic resonance imaging and controlled drug delivery. Chemical Engineering Journal, 2016, 289, 150-160.	12.7	174
70	Primary and Secondary Crystallization Kinetic Analysis of Poly(Hexamethylene Succinate). Journal of Advanced Thermal Science Research, 2016, 2, 71-76.	0.4	0
71	Mechanical, morphology, and thermal properties of carbon fiber reinforced poly(butylene succinate) composites. Polymer Composites, 2015, 36, 1335-1345.	4.6	24
72	Mechanical properties and crystallization behavior of poly(butylene succinate) composites reinforced with basalt fiber. Journal of Thermal Analysis and Calorimetry, 2015, 122, 261-270.	3.6	10

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73	Poly(hexamethylene succinate) copolyesters containing phosphorus pendent group: Retarded crystallization and solid-state microstructure. Polymer, 2015, 71, 31-42.	3.8	21
74	Biobased copolyesters from renewable resources: synthesis and crystallization behavior of poly(decamethylene sebacate-co-isosorbide sebacate). RSC Advances, 2015, 5, 42777-42788.	3.6	32
75	Facile synthesis of well-defined linear-comb highly branched poly(Îµ-caprolactone) using hydroxylated polybutadiene and organocatalyst. RSC Advances, 2015, 5, 27421-27430.	3.6	15
76	Synthesis and crystallization behavior of novel poly(butylene succinate) copolyesters containing phosphorus pendent groups. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1799-1810.	3.6	9
77	Boric acid as biocatalyst for living ring-opening polymerization of Îµ -caprolactone. Polymer, 2015, 78, 51-58.	3.8	21
78	Biobased copolyesters from renewable resources: synthesis and crystallization kinetics of poly(propylene sebacate-co-isosorbide sebacate). RSC Advances, 2015, 5, 68688-68699.	3.6	18
79	Facile synthesis and comparative study of poly(<scp>l</scp>-lactide) with linear-comb and star-comb architecture. RSC Advances, 2015, 5, 81482-81491.	3.6	20
80	Mechanical properties and nonisothermal crystallization of polyamide 6/carbon fiber composites toughened by maleated elastomers. Polymer Composites, 2014, 35, 2170-2179.	4.6	10
81	Biodegradable radiopaque iodinated poly(ester urethane)s containing poly(Îµâ€caprolactone) blocks: Synthesis, characterization, and biocompatibility. Journal of Biomedical Materials Research - Part A, 2014, 102, 1121-1130.	4.0	22
82	Mechanical properties, crystallization and melting behaviors of carbon fiber-reinforced PA6 composites. Journal of Thermal Analysis and Calorimetry, 2014, 115, 209-218.	3.6	65
83	Radiopaque iodinated poly(ester-urethane)s based on poly(butylene succinate): Retarded crystallization and dual recrystallization behaviour. Polymer, 2014, 55, 2751-2760.	3.8	10
84	Enzymatic degradation and radiopaque attenuation of iodinated poly(ester-urethane)s with inherent radiopacity. Journal of Materials Science, 2014, 49, 7834-7843.	3.7	5
85	Facile preparation and cytocompatibility of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (acid)/poly(3â€hydroxyb Science, 2014, 54, 2902-2910.	3.1	2
86	Hemocompatibility evaluation of polyurethane film with surfaceâ€grafted poly(ethylene glycol) and carboxymethylâ€chitosan. Journal of Applied Polymer Science, 2013, 127, 308-315.	2.6	66
87	Synthesis and characterization of poly(É›-caprolactone)/Fe3o4 nanocomposites by in situ polymerization. Chinese Journal of Polymer Science (English Edition), 2013, 31, 1011-1021.	3.8	8
88	Facile preparation of poly(Îµ-caprolactone)/Fe3O4@graphene oxide superparamagnetic nanocomposites. Polymer Bulletin, 2013, 70, 2359-2371.	3.3	32
89	Multifunctional Fe3O4/graphene oxide nanocomposites for magnetic resonance imaging and drug delivery. Materials Chemistry and Physics, 2013, 141, 997-1004.	4.0	125
90	Morphology, crystallization and mechanical properties of poly(É›-caprolactone)/graphene oxide nanocomposites. Chinese Journal of Polymer Science (English Edition), 2013, 31, 1148-1160.	3.8	40

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91	Nonisothermal crystallization and morphology of poly(butylene succinate)/layered double hydroxide nanocomposites. Chinese Journal of Polymer Science (English Edition), 2013, 31, 187-200.	3.8	10
92	Preparation and characterization of PVPI-coated Fe3O4 nanoparticles as an MRI contrast agent. Journal of Magnetism and Magnetic Materials, 2013, 340, 57-60.	2.3	27
93	Insight into the annealing peak and microstructural changes of poly(l-lactic acid) by annealing at elevated temperatures. Polymer, 2013, 54, 3377-3384.	3.8	38
94	Calorimetric analysis of the multiple melting behavior of melt-crystallized poly(l-lactic acid) with a low optical purity. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1507-1514.	3.6	23
95	RETARDED CRYSTALLIZATION IN POLY(BUTYLENE SUCCINATE)/POLYHEDRAL OLIGOMERIC SILSESQUIOXANES NANOCOMPOSITES. Acta Polymerica Sinica, 2013, 013, 1253-1261.	0.0	1
96	Rapid crystallization of poly(l-lactic acid) induced by a nanoscaled zinc citrate complex as nucleating agent. Polymer, 2012, 53, 4300-4309.	3.8	92
97	Isothermal crystallization and mechanical properties of poly(butylene succinate)/layered double hydroxide nanocomposites. Journal of Polymer Research, 2012, 19, 1.	2.4	26
98	Crystallization behavior of poly(Ïµâ€caprolactone)/Tio₂ nanocomposites obtained by in situ polymerization. Polymer Engineering and Science, 2012, 52, 1047-1057.	3.1	13
99	Crystallization behavior and nucleation analysis of poly(<scp>l</scp>â€lactic acid) with a multiamide nucleating agent. Polymer Engineering and Science, 2012, 52, 1058-1068.	3.1	61
100	A comparative study of TiO₂ and surfaceâ€treated TiO₂ nanoparticles on thermal and mechanical properties of poly(Ïµâ€caprolactone) nanocomposites. Journal of Applied Polymer Science, 2012, 125, 3871-3879.	2.6	22
101	Crystallization behavior of isotactic polypropylene/magnesium salt whisker composites modified by compatibilizer PP-g-MAH. Journal of Thermal Analysis and Calorimetry, 2011, 103, 701-710.	3.6	6
102	Crystallization and melting behavior of isotactic polypropylene nucleated with individual and compound nucleating agents. Journal of Thermal Analysis and Calorimetry, 2010, 102, 775-783.	3.6	45
103	Synthesis and characterization of poly(Ïµâ€caprolactone)â€bâ€poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2 Applied Polymer Science, 2009, 111, 429-436.	2.6	16
104	Nonisothermal crystallization and melting behavior of poly(Ïµâ€caprolactone)â€bâ€poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 1 1133-1140.	2.6	10
105	Predicting the auto-ignition temperatures of organic compounds from molecular structure using support vector machine. Journal of Hazardous Materials, 2009, 164, 1242-1249.	12.4	49
106	A novel QSPR model for prediction of lower flammability limits of organic compounds based on support vector machine. Journal of Hazardous Materials, 2009, 168, 962-969.	12.4	90
107	Microstructure analysis and thermal properties of l-lactide/É›-caprolactone copolymers obtained with magnesium octoate. Polymer, 2009, 50, 1423-1429.	3.8	29
108	Synthesis of poly(Ïµ-caprolactone)-poly(L-lactide) block copolymers by melt or solution sequential copolymerization using nontoxic dibutylmagnesium as initiator. Polymer Bulletin, 2008, 61, 407-413.	3.3	25

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109	Prediction of auto-ignition temperatures of hydrocarbons by neural network based on atom-type electrotopological-state indices. Journal of Hazardous Materials, 2008, 157, 510-517.	12.4	39
110	The copolymerization of l-lactide and É›-caprolactone using magnesium octoate as a catalyst. Chinese Chemical Letters, 2008, 19, 363-366.	9.0	9
111	Advantages of support vector machine in QSPR studies for predicting auto-ignition temperatures of organic compounds. Chemometrics and Intelligent Laboratory Systems, 2008, 92, 169-178.	3.5	92
112	Synthesis and characterization of biodegradable aliphatic polyesters using dibutylmagnesium as initiator. Chinese Chemical Letters, 2007, 18, 744-746.	9.0	12
113	Kinetics and mechanism of the ring opening polymerization of (R,S)-Î²-butyrolactone initiated with dibutylmagnesium. European Polymer Journal, 2007, 43, 1210-1218.	5.4	12
114	Synthesis and characterization of homo- and co-polymers of (R,S)-Î²-butyrolactone and Î³-butyrolactone or Î²-valerolactone initiated with cyclic tin alkoxide. Reactive and Functional Polymers, 2006, 66, 1411-1419.	4.1	19