

# Huiliang Zhang

## List of Publications by Year in descending order

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74  
papers

1,731  
citations

279798

23  
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345221

36  
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all docs

75  
docs citations

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times ranked

1410  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties, thermal behavior, miscibility and light stability of the poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (succinate-co-terephthalate) blends. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5719-5732.	3.3	5
2	Improved heat resistance in poly (lactic acid)/ethylene butyl methacrylate glycidyl methacrylate terpolymer blends by controlling highly filled talc particles. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5719-5732.	3.6	6
3	Poly (lactic acid) blends with excellent low temperature toughness: A comparative study on poly (lactic acid) blends with different toughening agents. International Journal of Biological Macromolecules, 2022, 201, 662-675.	7.5	27
4	Influence of reaction compatibilization on mechanical and barrier properties of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td 2022, 29, 1.	2.4	2
5	The construction of super-tough polylactide/crosslinked polyamide blends by dynamic vulcanization. Polymer Degradation and Stability, 2022, 202, 110007.	5.8	7
6	Effect of 1,4-bis(tert-butyl peroxy isopropyl) benzene on the rheological, mechanical, thermal and barrier properties of poly(butylene succinate-co-terephthalate)/poly(lactic acid) blends and blown films. Materials Today Communications, 2022, 31, 103830.	1.9	7
7	In-situ reaction compatibilization modification of poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (succinate-co-terephthalate) blends. International Journal of Biological Macromolecules, 2022, 213, 934-943.	7.5	25
8	Effect of initial crystallization on microstructure and mechanical properties of uniaxially pre-stretched poly(L-lactic acid). Polymer, 2022, 255, 125143.	3.8	3
9	Preparation, characterization and properties of biodegradable poly(butylene adipate-co-butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td. Advanced Technologies, 2021, 32, 613-629.	3.2	8
10	Effect of glycidyl methacrylate-grafted poly(ethylene octene) on the compatibility in PLA/PBAT blends and films. Korean Journal of Chemical Engineering, 2021, 38, 1746-1755.	2.7	11
11	Fiber-induced crystallization in polymer composites: A comparative study on poly(lactic acid) composites filled with basalt fiber and fiber powder. International Journal of Biological Macromolecules, 2021, 183, 45-54.	7.5	20
12	Preparation and properties of poly(L-lactic acid) blends with excellent low-temperature toughness by blending acrylic ester based impact resistance agent. International Journal of Biological Macromolecules, 2021, 183, 1871-1880.	7.5	10
13	Improvement of the strength and toughness of biodegradable polylactide/silica nanocomposites by uniaxial pre-stretching. International Journal of Biological Macromolecules, 2021, 190, 198-205.	7.5	14
14	Rheological, thermal and mechanical properties of biodegradable poly(lactic acid)/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td. Bulletin, 2020, 77, 4235-4258.	3.3	10
15	Preparation and characterization of antibacterial poly(lactic acid) nanocomposites with N-halamine modified silica. International Journal of Biological Macromolecules, 2020, 155, 1468-1477.	7.5	29
16	Study on miscibility, thermal properties, degradation behaviors, and toughening mechanism of poly(lactic acid)/poly (ethylene-butylacrylate-glycidyl methacrylate) blends. International Journal of Biological Macromolecules, 2020, 143, 443-452.	7.5	21
17	Enhanced compatibility between poly(lactic acid) and poly (butylene adipate-co-terephthalate) by incorporation of N-halamine epoxy precursor. International Journal of Biological Macromolecules, 2020, 165, 460-471.	7.5	27
18	The properties of chemical cross-linked poly(lactic acid) by bis(tert-butyl dioxy isopropyl) benzene. Polymer Bulletin, 2019, 76, 575-594.	3.3	19

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19	Ductile and biodegradable poly (lactic acid) matrix film with layered structure. International Journal of Biological Macromolecules, 2019, 137, 1141-1152.	7.5	10
20	Thermal, Mechanical and Rheological Properties of Poly(lactic acid) Chain Extended with Polyaryl Polymethylene Isocyanate. Fibers and Polymers, 2019, 20, 1766-1773.	2.1	13
21	Transform poly (lactic acid) packaging film from brittleness to toughness using traditional industrial equipments. Polymer, 2019, 180, 121728.	3.8	13
22	Effect of Ethylene/butyl methacrylate/Glycidyl Methacrylate Terpolymer on toughness and biodegradation of poly (l-lactic acid). International Journal of Biological Macromolecules, 2019, 127, 415-424.	7.5	20
23	Effect of molecular stereoregularity on the transcrystallization properties of poly(l-lactide)/basalt fiber composites. International Journal of Biological Macromolecules, 2019, 137, 238-246.	7.5	8
24	Effect of reactive group types on the properties of poly(ethylene octane) toughened poly(lactic acid). Journal of Polymer Research, 2019, 26, 1.	2.4	8
25	Exploring polylactide/poly(butylene adipate-co-terephthalate)/rare earth complexes biodegradable light conversion agricultural films. International Journal of Biological Macromolecules, 2019, 127, 210-221.	7.5	36
26	Improved heat resistance properties of poly(l-lactide)/basalt fiber biocomposites with high crystallinity under forming hybrid-crystalline morphology. International Journal of Biological Macromolecules, 2019, 122, 848-856.	7.5	16
27	The Mechanical, Thermal, Rheological and Morphological Properties of PLA/PBAT Blown Films by Using Bis(tert-butyl dioxy isopropyl) Benzene as Crosslinking Agent. Polymer Engineering and Science, 2019, 59, E227.	3.1	47
28	Polylactide/poly(butylene adipate-co-terephthalate)/rare earth complexes as biodegradable light conversion agricultural films. Polymers for Advanced Technologies, 2019, 30, 203-211.	3.2	34
29	The morphological, mechanical, rheological, and thermal properties of <sc>PLA/PBAT</sc> blown films with chain extender. Polymers for Advanced Technologies, 2018, 29, 1706-1717.	3.2	83
30	Miscibility, Crystallization Behaviors and Toughening Mechanism of Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (terephthalate) Blends. Polymers for Advanced Technologies, 2019, 30, 203-211.	2.1	19
31	The effect of MDI on the structure and mechanical properties of poly(lactic acid) and poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 302 Td (terephthalate) Blends. Polymers for Advanced Technologies, 2019, 30, 203-211.	3.6	81
32	Preparation and characterization of acetylated maltodextrin and its blend with poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (terephthalate) Blends. Polymers for Advanced Technologies, 2019, 30, 203-211.	10.2	12
33	Improvement of compatibility and mechanical properties of the poly(lactic acid)/poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 302 Td (terephthalate) Blends. Engineering and Science, 2018, 58, 1868-1878.	3.1	49
34	Influence of pearlescent pigments on mechanical properties and crystallization behavior of polylactic acid. Iranian Polymer Journal (English Edition), 2018, 27, 105-114.	2.4	5
35	Heat Resistant and Mechanical Properties of Biodegradable Poly(Lactic Acid)/Poly(Butylene Succinate) Blends Crosslinked by Polyaryl Polymethylene Isocyanate. Polymer-Plastics Technology and Engineering, 2018, 57, 1882-1892.	1.9	16
36	Influence of Biodegradable Poly(butylene carbonate) on Plasticized Polylactide Blown Films. Advances in Polymer Technology, 2018, 37, 531-541.	1.7	4

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37	Effect of crystallinity on the thermal conductivity of poly(3-hydroxybutyrate)/BN composites. <i>Polymer Bulletin</i> , 2018, 75, 1651-1666.	3.3	11
38	Influence of methyl methacrylate- <i>ε</i> -butadiene- <i>σ</i> -styrene copolymer on plasticized polylactide blown films. <i>Polymer Engineering and Science</i> , 2018, 58, E4.	3.1	8
39	The effect of MBS on the heat resistant, mechanical properties, thermal behavior and rheological properties of PLA/EVOH blend. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	17
40	The Effect of Core-Shell Ratio of Acrylic Impact Modifier on Toughening PLA. <i>Advances in Polymer Technology</i> , 2017, 36, 491-501.	1.7	26
41	Improved mechanical properties, barrier properties and degradation behavior of poly(butylenes) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 542 Td (	2.7	40
42	A study on the mechanical, thermal properties and crystallization behavior of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (	3.6	36
43	Electromagnetic interference properties of carbon nanofiber-reinforced acrylonitrile- <i>σ</i> -styrene- <i>σ</i> -acrylate/natural graphite composites. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45455.	2.6	7
44	Crystallization behavior, rheology, mechanical properties, and enzymatic degradation of poly(L-lactide)/poly(D-lactide)/glycidyl methacrylate grafted poly(ethylene octane) blends. <i>Fibers and Polymers</i> , 2017, 18, 2049-2059.	2.1	3
45	Diethylene glycol monobutyl ether adipate as a novel plasticizer for biodegradable polylactide. <i>Polymer Bulletin</i> , 2016, 73, 3143-3161.	3.3	10
46	Mechanical properties, hydrophobic properties and thermal stability of the biodegradable poly(butylene adipate-co-terephthalate)/maleated thermoplastic starch blown films. <i>Fibers and Polymers</i> , 2016, 17, 1540-1549.	2.1	41
47	Effect of epoxy resin on the thermal, mechanical and rheological properties of polybutylene terephthalate/glycidyl methacrylate functionalized methyl methacrylate-butadiene blend. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 140-148.	2.6	1
48	Rheology, mechanical properties and crystallization behavior of glycidyl methacrylate grafted poly(ethylene octene) toughened poly(lactic acid) blends. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1104-1114.	2.7	23
49	Effect of mixing poly(lactic acid) with glycidyl methacrylate grafted poly(ethylene octene) on optical and mechanical properties of the blown films. <i>Polymer Engineering and Science</i> , 2015, 55, 2801-2813.	3.1	18
50	The simultaneous introduction of low and high molecular weight of biodegradable Poly(diethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (	2.1	4
51	Assessment of miscibility, crystallization behaviors, and toughening mechanism of polylactide/acrylate copolymer blends. <i>Polymer Engineering and Science</i> , 2015, 55, 386-396.	3.1	40
52	Mechanical properties, miscibility, thermal stability, and rheology of poly(propylene carbonate) and poly(ethylene-co-vinyl acetate) blends. <i>Polymer Bulletin</i> , 2015, 72, 851-865.	3.3	13
53	Thermal, rheological and mechanical properties of poly(propylene carbonate)/methyl methacrylate- <i>ε</i> -butadiene- <i>σ</i> -styrene blends. <i>Iranian Polymer Journal (English Edition)</i> , 2015, 24, 861-870.	2.4	7
54	Poly(butylene terephthalate) Toughening with Butadiene-Epoxy-Functionalized Methyl Methacrylate Core-Shell Copolymer. <i>Journal of Macromolecular Science - Physics</i> , 2015, 54, 1267-1281.	1.0	4

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55	Toughening of polylactide with epoxy-functionalized methyl methacrylate-butyl acrylate copolymer. <i>Polymer Bulletin</i> , 2014, 71, 2881-2902.	3.3	26
56	Influence of acrylic impact modifier on plasticized polylactide blown films. <i>Polymer International</i> , 2014, 63, 1076-1084.	3.1	17
57	Toughening of polylactide with epoxy-functionalized methyl methacrylate-butadiene copolymer. <i>Polymer International</i> , 2014, 63, 660-666.	3.1	37
58	PVDF/PMMA/Basalt fiber composites: Morphology, melting and crystallization, structure, mechanical properties, and heat resistance. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	14
59	Toughening mechanism behind intriguing stress-strain curves in tensile tests of highly enhanced compatibilization of biodegradable poly(lactic acid)/poly(3-hydroxybutyrate-co-4-hydroxybutyrate) blends. <i>RSC Advances</i> , 2014, 4, 41722-41733.	3.6	26
60	Intriguing crystallization behavior and rheological properties of radical-based crosslinked biodegradable poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <i>CrystEngComm</i> , 2014, 16, 2702.	2.6	34
61	Thermal, mechanical, and rheological properties of plasticized poly(L-lactic acid). <i>Journal of Applied Polymer Science</i> , 2013, 127, 2832-2839.	2.6	66
62	Thermal, mechanical, and rheological properties of polylactide/poly(1,2-propylene glycol adipate). <i>Polymer Engineering and Science</i> , 2013, 53, 112-118.	3.1	42
63	Thermal, mechanical, and rheological properties of poly(propylene carbonate) cross-linked with polyaryl polymethylene isocyanate. <i>Polymer Bulletin</i> , 2013, 70, 1991-2003.	3.3	25
64	Thermal, rheological, and mechanical properties of polylactide/poly(diethylene glycol adipate). <i>Polymer Bulletin</i> , 2013, 70, 3487-3500.	3.3	22
65	Poly(L-lactide)/poly(D-lactide)/multiwalled carbon nanotubes nanocomposites: Enhanced dispersion, crystallization, mechanical properties, and hydrolytic degradation. <i>Journal of Applied Polymer Science</i> , 2013, 130, 3919-3929.	2.6	7
66	Morphology and properties of biodegradable and biosourced polylactide blends with poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <i>Polymer Composites</i> , 2012, 33, 850-859.	4.6	72
67	Preparation and characteristics of a novel nano-sized calcium carbonate (nano-CaCO <sub>3</sub> )-supported nucleating agent of poly(L-lactide). <i>Polymer Engineering and Science</i> , 2012, 52, 1474-1484.	3.1	23
68	Toughening of polylactide by melt blending with methyl methacrylate-butadiene-styrene copolymer. <i>Journal of Applied Polymer Science</i> , 2012, 125, E550.	2.6	66
69	Study of the thermal stabilization mechanism of biodegradable poly(L-lactide)/silica nanocomposites. <i>Polymer International</i> , 2011, 60, 202-210.	3.1	65
70	Thermal and mechanical properties of poly(butylene terephthalate)/epoxy blends. <i>Journal of Applied Polymer Science</i> , 2008, 109, 4082-4088.	2.6	16
71	Thermotropic liquid crystallinity, thermal decomposition behavior, and aggregated structure of poly(propylene carbonate)/ethyl cellulose blends. <i>Journal of Applied Polymer Science</i> , 2006, 100, 584-592.	2.6	31
72	Crystallization kinetics and melting behavior of syndiotactic 1,2-polybutadiene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 553-561.	2.1	22

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73	Isothermal and nonisothermal crystallization kinetics of irradiated nylon 1212. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2326-2333.	2.1	23
74	Crystallization kinetics and morphology of poly(butylene succinate-co-adipate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3231-3241.	2.1	61