Huiliang Zhang

List of Publications by Year
in descending order

74 papers	1,731 citations	279798 23 h-index	345221 36 g-index
75 all docs	75 docs citations	75 times ranked	1410 citing authors

#	Article	IF	Citations
1	The morphological, mechanical, rheological, and thermal properties of <scp>PLA/PBAT</scp> blown films with chain extender. Polymers for Advanced Technologies, 2018, 29, 1706-1717.	3.2	83
2	The effect of MDI on the structure and mechanical properties of poly(lactic acid) and poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.6	81
3	Morphology and properties of biodegradable and biosourced polylactide blends with poly(3â€hydroxybutyrateâ€coâ€4â€hydroxybutyrate). Polymer Composites, 2012, 33, 850-859.	4.6	72
4	Toughening of polylactide by melt blending with methyl methacrylateâ€“butadieneâ€“styrene copolymer. Journal of Applied Polymer Science, 2012, 125, E550.	2.6	66
5	Thermal, mechanical, and rheological properties of plasticized poly(<scp>L</scp>â€lactic acid). Journal of Applied Polymer Science, 2013, 127, 2832-2839.	2.6	66
6	Study of the thermal stabilization mechanism of biodegradable poly(<scp>L</scp>â€lactide)/silica nanocomposites. Polymer International, 2011, 60, 202-210.	3.1	65
7	Crystallization kinetics and morphology of poly(butylene succinate-co-adipate). Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3231-3241.	2.1	61
8	Improvement of compatibility and mechanical properties of the poly(lactic acid)/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 Engineering and Science, 2018, 58, 1868-1878.	3.1	49
9	The Mechanical, Thermal, Rheological and Morphological Properties of PLA/PBAT Blown Films by Using Bis(tertâ€butyl dioxy isopropyl) Benzene as Crosslinking Agent. Polymer Engineering and Science, 2019, 59, E227.	3.1	47
10	Thermal, mechanical, and rheological properties of polylactide/poly(1,2â€propylene glycol adipate). Polymer Engineering and Science, 2013, 53, 112-118.	3.1	42
11	Mechanical properties, hydrophobic properties and thermal stability of the biodegradable poly(butylene adipate-co-terephthalate)/maleated thermoplastic starch blown films. Fibers and Polymers, 2016, 17, 1540-1549.	2.1	41
12	Assessment of miscibility, crystallization behaviors, and toughening mechanism of polylactide/acrylate copolymer blends. Polymer Engineering and Science, 2015, 55, 386-396.	3.1	40
13	Improved mechanical properties, barrier properties and degradation behavior of poly(butylenes) Tj ETQq1 1 0.784314 rgBT /Overlock 2017, 34, 1294-1304.	2.7	40
14	Toughening of polylactide with epoxy-functionalized methyl methacrylate-butadiene copolymer. Polymer International, 2014, 63, 660-666.	3.1	37
15	A study on the mechanical, thermal properties and crystallization behavior of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.6	36
16	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
17	Intriguing crystallization behavior and rheological properties of radical-based crosslinked biodegradable poly(3-hydroxybutyrate-co-4-hydroxybutyrate). CrystEngComm, 2014, 16, 2702.	2.6	34
18	Polylactide/poly(butylene adipateâ€coâ€terephthalate)/rare earth complexes as biodegradable light conversion agricultural films. Polymers for Advanced Technologies, 2019, 30, 203-211.	3.2	34

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19	Thermotropic liquid crystallinity, thermal decomposition behavior, and aggregated structure of poly(propylene carbonate)/ethyl cellulose blends. Journal of Applied Polymer Science, 2006, 100, 584-592.	2.6	31
20	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
21	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
22	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
23	Toughening of polylactide with epoxy-functionalized methyl methacrylateâ€“butyl acrylate copolymer. Polymer Bulletin, 2014, 71, 2881-2902.	3.3	26
24	Toughening mechanism behind intriguing stressâ€“strain curves in tensile tests of highly enhanced compatibilization of biodegradable poly(lactic acid)/poly(3-hydroxybutyrate-co-4-hydroxybutyrate) blends. RSC Advances, 2014, 4, 41722-41733.	3.6	26
25	The Effect of Coreâ€“Shell Ratio of Acrylic Impact Modifier on Toughening PLA. Advances in Polymer Technology, 2017, 36, 491-501.	1.7	26
26	Thermal, mechanical, and rheological properties of poly(propylene carbonate) cross-linked with polyaryl polymethylene isocyanate. Polymer Bulletin, 2013, 70, 1991-2003.	3.3	25
27	In-situ reaction compatibilization modification of poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (succinate-co-t International Journal of Biological Macromolecules, 2022, 213, 934-943.	7.5	25
28	Isothermal and nonisothermal crystallization kinetics of irradiated nylon 1212. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2326-2333.	2.1	23
29	Preparation and characteristics of a novel nanoâ€sized calcium carbonate (nanoâ€CaCo₃)â€supported nucleating agent of poly(<scp>L</scp>â€lactide). Polymer Engineering and Science, 2012, 52, 1474-1484.	3.1	23
30	Rheology, mechanical properties and crystallization behavior of glycidyl methacrylate grafted poly(ethylene octene) toughened poly(lactic acid) blends. Korean Journal of Chemical Engineering, 2016, 33, 1104-1114.	2.7	23
31	Crystallization kinetics and melting behavior of syndiotactic 1,2-polybutadiene. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 553-561.	2.1	22
32	Thermal, rheological, and mechanical properties of polylactide/poly(diethylene glycol adipate). Polymer Bulletin, 2013, 70, 3487-3500.	3.3	22
33	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
34	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
35	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
36	Miscibility, Crystallization Behaviors and Toughening Mechanism of Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (terephth	2.1	19

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37	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
38	Effect of mixing poly(lactic acid) with glycidyl methacrylate grafted poly(ethylene octene) on optical and mechanical properties of the blown films. Polymer Engineering and Science, 2015, 55, 2801-2813.	3.1	18
39	Influence of acrylic impact modifier on plasticized polylactide blown films. Polymer International, 2014, 63, 1076-1084.	3.1	17
40	The effect of MBS on the heat resistant, mechanical properties, thermal behavior and rheological properties of PLA/EVOH blend. Journal of Polymer Research, 2018, 25, 1.	2.4	17
41	Thermal and mechanical properties of poly(butylene terephthalate)/epoxy blends. Journal of Applied Polymer Science, 2008, 109, 4082-4088.	2.6	16
42	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
43	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
44	PVDF/PMMA/Basalt fiber composites: Morphology, melting and crystallization, structure, mechanical properties, and heat resistance. Journal of Applied Polymer Science, 2014, 131, .	2.6	14
45	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
46	Mechanical properties, miscibility, thermal stability, and rheology of poly(propylene carbonate) and poly(ethylene-co-vinyl acetate) blends. Polymer Bulletin, 2015, 72, 851-865.	3.3	13
47	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
48	Transform poly (lactic acid) packaging film from brittleness to toughness using traditional industrial equipments. Polymer, 2019, 180, 121728.	3.8	13
49	Preparation and characterization of acetylated maltodextrin and its blend with poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	10.2	12
50	Effect of crystallinity on the thermal conductivity of poly(3-hydroxybutyrate)/BN composites. Polymer Bulletin, 2018, 75, 1651-1666.	3.3	11
51	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
52	Diethylene glycol monobutyl ether adipate as a novel plasticizer for biodegradable polylactide. Polymer Bulletin, 2016, 73, 3143-3161.	3.3	10
53	Ductile and biodegradable poly (lactic acid) matrix film with layered structure. International Journal of Biological Macromolecules, 2019, 137, 1141-1152.	7.5	10
54	Rheological, thermal and mechanical properties of biodegradable poly(lactic acid)/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 Bulletin, 2020, 77, 4235-4258.	3.3	10

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55	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
56	Influence of methyl methacrylateâ€butadieneâ€styrene copolymer on plasticized polylactide blown films. Polymer Engineering and Science, 2018, 58, E4.	3.1	8
57	Effect of molecular stereoregularity on the transcrystallinization properties of poly(l-lactide)/basalt fiber composites. International Journal of Biological Macromolecules, 2019, 137, 238-246.	7.5	8
58	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
59	Preparation, characterization and properties of biodegradable poly(butylene adipateâ€coâ€butylene) Tj ETQq1 1 0.784314 rgBT /Overlo Advanced Technologies, 2021, 32, 613-629.	3.2	8
60	Poly(<scp>l</scp>â€lactide)/poly(<scp>d</scp>â€lactide)/multiwalled carbon nanotubes nanocomposites: Enhanced dispersion, crystallization, mechanical properties, and hydrolytic degradation. Journal of Applied Polymer Science, 2013, 130, 3919-3929.	2.6	7
61	Thermal, rheological and mechanical properties of poly(propylene carbonate)/methyl methacrylateâ€“butadieneâ€“styrene blends. Iranian Polymer Journal (English Edition), 2015, 24, 861-870.	2.4	7
62	Electromagnetic interference properties of carbon nanofiberâ€“reinforced acrylonitrileâ€“styreneâ€“acrylate/natural graphite composites. Journal of Applied Polymer Science, 2017, 134, 45455.	2.6	7
63	The construction of super-tough polylactide/crosslinked polyamide blends by dynamic vulcanization. Polymer Degradation and Stability, 2022, 202, 110007.	5.8	7
64	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
65	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
66	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
67	Mechanical properties, thermal behavior, miscibility and light stability of the poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 80, 2485-2501.	3.3	5
68	The simultaneous introduction of low and high molecular weight of biodegradable Poly(diethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	4
69	Poly(butylene terephthalate) Toughening with Butadiene-Epoxy-Functionalized Methyl Methacrylate Coreâ€“Shell Copolymer. Journal of Macromolecular Science - Physics, 2015, 54, 1267-1281.	1.0	4
70	Influence of Biodegradable Poly(butylene carbonate) on Plasticized Polylactide Blown Films. Advances in Polymer Technology, 2018, 37, 531-541.	1.7	4
71	Crystallization behavior, rheology, mechanical properties, and enzymatic degradation of poly(L-lactide)/poly(D-lactide)/glycidyl methacrylate grafted poly(ethylene octane) blends. Fibers and Polymers, 2017, 18, 2049-2059.	2.1	3
72	Effect of initial crystallization on microstructure and mechanical properties of uniaxially pre-stretched poly(L-lactic acid). Polymer, 2022, 255, 125143.	3.8	3

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73	Influence of reaction compatibilization on mechanical and barrier properties of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2022, 29, 1.	2.4	2
74	Effect of epoxy resin on the thermal, mechanical and rheological properties of polybutylene terephthalate/glycidyl methacrylate functionalized methyl methacrylate-butadiene blend. Chemical Research in Chinese Universities, 2016, 32, 140-148.	2.6	1