

# Changyu Han

## List of Publications by Year in descending order

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65  
papers

1,616  
citations

279487

23  
h-index

329751

37  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of the molecular weight of poly(vinyl acetate) on the polymorphism and thermomechanical properties of poly(L-lactic acid)/poly(D-lactic acid) blends. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 3171-3184.	2.0	3
2	Biodegradable poly(butylene adipate-co-terephthalate)/poly(vinyl acetate) blends with improved rheological and mechanical properties. <i>Journal of Polymer Research</i> , 2022, 29, 1.	1.2	3
3	Blends of biodegradable poly( $\epsilon$ -caprolactone) and sustainable poly(propylene carbonate) with enhanced mechanical and rheological properties. <i>Colloid and Polymer Science</i> , 2022, 300, 59-68.	1.0	2
4	Miscibility, crystallization, mechanical, and rheological properties of poly(L-lactic acid)/poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 552 Td (acid)/poly	1.0	5
5	Miscibility, morphology, and properties of poly(butylene succinate)/poly(vinyl acetate) blends. <i>Colloid and Polymer Science</i> , 2021, 299, 105-116.	1.0	9
6	Improving the stereocomplexation and toughness of poly(L-lactic Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 552 Td (acid)/poly methacrylate terpolymer. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2021, 58, 419-430.	1.2	4
7	Thermal and mechanical properties of stereocomplex polylactide enhanced by nanosilica. <i>Colloid and Polymer Science</i> , 2021, 299, 1161-1172.	1.0	5
8	Miscibility, crystallization and mechanical properties of poly[(3-hydroxybutyrate)- <i>i&gt;co&lt;/i&gt;-(4-hydroxyvalerate)]/poly(propylene carbonate)/poly(vinyl acetate) ternary blends. <i>Polymer International</i>, 2021, 70, 1544-1553.</i>	1.6	9
9	Ternary blends from biological poly(3-hydroxybutyrate-co-4-hydroxyvalerate), poly(L-lactic acid), and poly(vinyl acetate) with balanced properties. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 60-71.	3.6	15
10	Enhancing the crystallization of biodegradable poly( $\epsilon$ -caprolactone) using a polyvinyl alcohol fiber favoring nucleation. <i>Thermochimica Acta</i> , 2021, 706, 179065.	1.2	2
11	Effect of loadings of nanocellulose on the significantly improved crystallization and mechanical properties of biodegradable poly( $\epsilon$ -caprolactone). <i>International Journal of Biological Macromolecules</i> , 2020, 147, 34-45.	3.6	17
12	Miscibility, crystallization, rheological and mechanical properties of biodegradable poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/poly(vinyl acetate) blends. <i>Thermochimica Acta</i> , 2020, 693, 178755.	1.2	8
13	Enhanced rheological properties and heat resistance of poly(propylene carbonate) composites with carbon fiber. <i>Composites Communications</i> , 2020, 21, 100422.	3.3	7
14	Biodegradable blends of poly(butylene adipate-co-terephthalate) and stereocomplex polylactide with enhanced rheological, mechanical properties and thermal resistance. <i>Colloid and Polymer Science</i> , 2020, 298, 463-475.	1.0	18
15	Effect of content and particle size of talc on nonisothermal melt crystallization behavior of poly(L-lactide). <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 2049-2058.	2.0	17
16	Morphological, thermal, rheological and mechanical properties of poly(butylene carbonate) reinforced by stereocomplex polylactide. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 1169-1178.	3.6	12
17	Enhancement of the properties of biosourced poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by the incorporation of natural orotic acid. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 764-773.	3.6	15
18	Structure variation and properties enhancement of uniaxial stretching poly(L-lactic acid)/eggshell powder composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48158.	1.3	3

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19	Uniaxial stretching and properties of fully biodegradable poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (acid)/poly(3- Macromolecules, 2019, 129, 1-12.	3.6	22
20	Morphology and properties in the binary blends of polypropylene and propyleneâ€“ethylene random copolymers. Polymer Bulletin, 2019, 76, 2851-2866.	1.7	11
21	High-performance biodegradable polylactide composites fabricated using a novel plasticizer and functionalized eggshell powder. International Journal of Biological Macromolecules, 2018, 112, 46-53.	3.6	16
22	Crystallization behaviors of poly(lactic acid) composites fabricated using functionalized eggshell powder and poly(ethylene glycol). Thermochemica Acta, 2018, 663, 67-76.	1.2	21
23	Isothermal and nonisothermal cold crystallization kinetics of poly(L-lactide)/functionalized eggshell powder composites. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2213-2223.	2.0	20
24	Production and characterization of sustainable poly(lactic acid)/functionalized-eggshell composites plasticized by epoxidized soybean oil. Journal of Materials Science, 2018, 53, 14386-14397.	1.7	18
25	Polycaprolactone nanocomposite reinforced by bioresource starch-based nanoparticles. International Journal of Biological Macromolecules, 2017, 102, 1304-1311.	3.6	22
26	Crystallization and melting characteristics of iPP nucleated by a sustainable eggshell powder-supported Î²-nucleating agent. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1093-1106.	2.0	7
27	The excellent gas barrier properties and unique mechanical properties of poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (acid)/poly(3- Journal of Thermal Analysis and Calorimetry, 2017, 128, 1093-1106.	1.7	20
28	Hydrophobic modification of polypropylene/starch blend foams through tailoring cell diameter for oil-spill cleanup. RSC Advances, 2016, 6, 82088-82095.	1.7	18
29	The physical properties of poly(L-lactide) and functionalized eggshell powder composites. International Journal of Biological Macromolecules, 2016, 85, 63-73.	3.6	43
30	Crystallization behavior, mechanical properties, and enzymatic degradation of biosourced poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/graphene nanocomposites. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1705-1715.	2.0	8
31	Confinement crystallization of poly(L-lactide) induced by multiwalled carbon nanotubes and graphene nanosheets. Journal of Thermal Analysis and Calorimetry, 2015, 122, 379-391.	2.0	18
32	Stereocomplex crystallite network in poly(<sc>d</sc>,<sc>l</sc>-lactide): formation, structure and the effect on shape memory behaviors and enzymatic hydrolysis of poly(<sc>d</sc>,<sc>l</sc>-lactide). RSC Advances, 2015, 5, 24352-24362.	1.7	45
33	Toward environmentâ€“friendly composites of poly(Î¼â€“caprolactone) reinforced with stereocomplexâ€“type poly(<sc>l</sc>-lactide)/poly(<sc>d</sc>-lactide). Journal of Applied Polymer Science, 2014, 131, .	1.3	4
34	Enhancing cold crystallization of poly(L-lactide) by a montmorillonitic substrate favoring nucleation. Thermochemica Acta, 2014, 588, 47-56.	1.2	23
35	Poly(<sc>L</sc>-lactide)/Poly(<sc>D</sc>-lactide)/clay nanocomposites: Enhanced dispersion, crystallization, mechanical properties, and hydrolytic degradation. Polymer Engineering and Science, 2014, 54, 914-924.	1.5	27
36	Miscibility, thermal properties and polymorphism of stereocomplexation of high-molecular-weight polylactide/poly(D,L-lactide) blends. Thermochemica Acta, 2014, 580, 53-62.	1.2	28

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37	Enhancing the crystallization of poly(L-lactide) using a montmorillonitic substrate favoring nucleation. <i>CrystEngComm</i> , 2014, 16, 3896-3905.	1.3	19
38	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.	1.7	26
39	Bioresource-based blends of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and stereocomplex polylactide with improved rheological and mechanical properties and enzymatic hydrolysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8881.	5.2	52
40	Intriguing crystallization behavior and rheological properties of radical-based crosslinked biodegradable poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <i>CrystEngComm</i> , 2014, 16, 2702.	1.3	34
41	Miscibility and crystallization behaviors of stereocomplex-type poly(l- and d-lactide)/poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 15	2.0	15
42	Thermal, mechanical, and rheological properties of polylactide/poly(1,2-propylene glycol adipate). <i>Polymer Engineering and Science</i> , 2013, 53, 112-118.	1.5	42
43	Effect of crystallization on microstructure and mechanical properties of poly[(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.6	24
44	Effects of molten poly(d,l-lactide) on nonisothermal crystallization in stereocomplex of poly(l-lactide) with poly(d-lactide). <i>Thermochimica Acta</i> , 2013, 573, 193-199.	1.2	30
45	Morphology and properties of the biosourced poly(lactic acid)/poly(ethylene oxide- <i>b</i> -amide) blends. <i>Polymer Composites</i> , 2013, 34, 122-130.	2.3	50
46	Crystallization and morphology studies of biodegradable poly( $\mu$ -caprolactone)/silica nanocomposites. <i>Polymer Composites</i> , 2013, 34, 131-140.	2.3	27
47	Microgels for impact protection. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2345-2351.	1.3	14
48	Improvement in toughness and crystallization of poly(L-lactide) by melt blending with ethylene/methyl acrylate/glycidyl methacrylate terpolymer. <i>Polymer Engineering and Science</i> , 2013, 53, 2498-2508.	1.5	36
49	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.	1.3	7
50	Rheology, mechanical properties, and biodegradation of poly( $\mu$ -caprolactone)/silica nanocomposites. <i>Polymer Composites</i> , 2013, 34, 1620-1628.	2.3	25
51	Isothermal and Nonisothermal Cold Crystallization Behaviors of Asymmetric Poly(L-lactide)/Poly(d-lactide) Blends. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 15927-15935.	1.8	54
52	Rheology and biodegradation of polylactide/silica nanocomposites. <i>Polymer Composites</i> , 2012, 33, 1719-1727.	2.3	81
53	Preparation and characterization of biodegradable poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/silica nanocomposites. <i>Polymer Engineering and Science</i> , 2012, 52, 250-258.	1.5	45
54	Morphology and properties of biodegradable and biosourced polylactide blends with poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <i>Polymer Composites</i> , 2012, 33, 850-859.	2.3	72

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55	Preparation and characteristics of a novel nano-sized calcium carbonate (nano-CaCO <sub>3</sub> )-supported nucleating agent of poly(L-lactide). Polymer Engineering and Science, 2012, 52, 1474-1484.	1.5	23
56	Improvement in toughness and crystallization of poly(L-lactide) by melt blending with poly(epichlorohydrin-co-ethylene oxide). Polymer Engineering and Science, 2011, 51, 2370-2380.	1.5	49
57	Study of the thermal stabilization mechanism of biodegradable poly(L-lactide)/silica nanocomposites. Polymer International, 2011, 60, 202-210.	1.6	65
58	Morphology, crystallization and enzymatic hydrolysis of poly(L-lactide) nucleated using layered metal phosphonates. Polymer International, 2011, 60, 284-295.	1.6	63
59	Thermal and mechanical properties of blends of polylactide and poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (g) 2050-2057.	1.3	9
60	Dramatic Improvements in Mechanical Properties of Poly(L-lactide)/Silica Nanocomposites by Addition of Hyperbranched Poly(ester amide). Macromolecular Materials and Engineering, 2010, 295, 415-419.	1.7	11
61	An investigation of the effect of silane water-crosslinking on the properties of poly(L-lactide). Polymer International, 2010, 59, 695-703.	1.6	22
62	Poly(ethylene glycol-co-propylene glycol) as a macromolecular plasticizing agent for polylactide: Thermomechanical properties and aging. Journal of Applied Polymer Science, 2009, 114, 1105-1117.	1.3	28
63	Thermomechanical and optical properties of biodegradable poly(L-lactide)/silica nanocomposites by melt compounding. Journal of Applied Polymer Science, 2009, 114, 3379-3388.	1.3	92
64	Thermal and mechanical properties of poly( $\epsilon$ -caprolactone) crosslinked with $\hat{\Gamma}^3$ radiation in the presence of triallyl isocyanurate. Journal of Applied Polymer Science, 2007, 103, 2676-2681.	1.3	22
65	Effect of peroxide crosslinking on thermal and mechanical properties of poly( $\epsilon$ -caprolactone). Polymer International, 2007, 56, 593-600.	1.6	52