

Linbo Wu

List of Publications by Year in descending order

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82
papers

3,860
citations

147566

31
h-index

128067

60
g-index

87
all docs

87
docs citations

87
times ranked

4149
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro degradation of three-dimensional porous poly(D,L-lactide-co-glycolide) scaffolds for tissue engineering. <i>Biomaterials</i> , 2004, 25, 5821-5830.	5.7	464
2	High Molecular Weight Poly(butylene succinate-co-butylene furandicarboxylate) Copolyesters: From Catalyzed Polycondensation Reaction to Thermomechanical Properties. <i>Biomacromolecules</i> , 2012, 13, 2973-2981.	2.6	192
3	Effects of porosity and pore size on in vitro degradation of three-dimensional porous poly(D,L-lactide-co-glycolide) scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 767-777.	2.1	171
4	Biodegradable UV-Blocking Films through Core-Shell Lignin-Melanin Nanoparticles in Poly(butylene) Tj ETQq0,0,0 rgBT /Overlock 149	3.2	149
5	Synthesis, Properties, and Light-Induced Shape Memory Effect of Multiblock Polyesterurethanes Containing Biodegradable Segments and Pendant Cinnamamide Groups. <i>Biomacromolecules</i> , 2011, 12, 235-241.	2.6	140
6	A comparative study of porous scaffolds with cubic and spherical macropores. <i>Polymer</i> , 2005, 46, 4979-4985.	1.8	131
7	Biobased poly(butylene 2,5-furandicarboxylate) and poly(butylene adipate-co-butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50 thermo-mechanical properties. <i>Polymer</i> , 2014, 55, 3648-3655.	1.8	131
8	In vivo chondrogenesis of adult bone-marrow-derived autologous mesenchymal stem cells. <i>Cell and Tissue Research</i> , 2005, 319, 429-438.	1.5	126
9	Biodegradable and High-Performance Poly(butylene adipate-co-terephthalate)-Lignin UV-Blocking Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10342-10351.	3.2	125
10	Biobased Epoxy Resin with Low Electrical Permissivity and Flame Retardancy: From Environmental Friendly High-Throughput Synthesis to Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8856-8867.	3.2	119
11	Preparation and CO ₂ Sorption/Desorption of N-(3-Aminopropyl)Aminoethyl Tributylphosphonium Amino Acid Salt Ionic Liquids Supported into Porous Silica Particles. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7901-7909.	1.8	107
12	Fabrication of Three-Dimensional Porous Scaffolds of Complicated Shape for Tissue Engineering. I. Compression Molding Based on Flexible-Rigid Combined Mold. <i>Tissue Engineering</i> , 2005, 11, 1105-1114.	4.9	98
13	A room-temperature injection molding/particulate leaching approach for fabrication of biodegradable three-dimensional porous scaffolds. <i>Biomaterials</i> , 2006, 27, 185-191.	5.7	98
14	Preparation and SO ₂ Sorption/Desorption Behavior of an Ionic Liquid Supported on Porous Silica Particles. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 2142-2148.	1.8	93
15	Modification of Poly(ethylene 2,5-furandicarboxylate) with Biobased 1,5-Pentandiol: Significantly Toughened Copolyesters Retaining High Tensile Strength and O ₂ Barrier Property. <i>Biomacromolecules</i> , 2019, 20, 353-364.	2.6	92
16	Polyethyleneimine-Modified UiO-66-NH ₂ (Zr) Metal-Organic Frameworks: Preparation and Enhanced CO ₂ Selective Adsorption. <i>ACS Omega</i> , 2019, 4, 3188-3197.	1.6	91
17	Wet-state mechanical properties of three-dimensional polyester porous scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 264-271.	2.1	87
18	Poly(L-lactic acid)/SiO ₂ nanocomposites via in situ melt polycondensation of L-lactic acid in the presence of acidic silica sol: Preparation and characterization. <i>Polymer</i> , 2008, 49, 742-748.	1.8	76

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19	Enhancement of Water Vapor Barrier Properties of Biodegradable Poly(butylene Terephthalate) by Introducing Poly(ethylene glycol) into the Main Chain. <i>Journal of Applied Polymer Science</i> , 2018, 143, 4654-4662.	3.2	73
20	Synthesis and SO ₂ Absorption/Desorption Properties of Poly(1,1,3,3-tetramethylguanidine acrylate). <i>Macromolecules</i> , 2007, 40, 3388-3393.	2.2	65
21	Design of Multistimuli-Responsive Shape-Memory Polymer Materials by Reactive Extrusion. <i>Chemistry of Materials</i> , 2014, 26, 5860-5867.	3.2	64
22	Poly(ethylene 2,5-furandicarboxylate- <i>mb</i> -poly(tetramethylene glycol)) multiblock copolymers: From high tough thermoplastics to elastomers. <i>Polymer</i> , 2018, 155, 89-98.	1.8	57
23	High Molecular Weight Polyesters Derived from Biobased 1,5-Pentanediol and a Variety of Aliphatic Diacids: Synthesis, Characterization, and Thermo-Mechanical Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6159-6166.	3.2	56
24	DBU-catalyzed biobased poly(ethylene 2,5-furandicarboxylate) polyester with rapid melt crystallization: synthesis, crystallization kinetics and melting behavior. <i>RSC Advances</i> , 2016, 6, 101578-101586.	1.7	45
25	Thermal stability of aromatic polyesters prepared from diphenolic acid and its esters. <i>Polymer Degradation and Stability</i> , 2009, 94, 1261-1266.	2.7	44
26	Polyethylenimine-Grafted HKUST-Type MOF/PolyHIPE Porous Composites (PEI@PGD-H) as Highly Efficient CO ₂ Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4257-4266.	1.8	44
27	Biobased Poly(ethylene- <i>co</i> -hexamethylene 2,5-furandicarboxylate) (PEHF) Copolyesters with Superior Tensile Properties. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13094-13102.	1.8	43
28	Fabrication of three dimensional polymeric scaffolds with spherical pores. <i>Journal of Materials Science</i> , 2006, 41, 1725-1731.	1.7	42
29	Highly Efficient Two-Step Synthesis of 2,5-Furandicarboxylic Acid from Fructose without 5-Hydroxymethylfurfural (HMF) Separation: In Situ Oxidation of HMF in Alkaline Aqueous H ₂ O/DMSO Mixed Solvent under Mild Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16172-16181.	1.8	42
30	Preparation and SO ₂ Absorption/Desorption Properties of Crosslinked Poly(1,1,3,3-Tetramethylguanidine Acrylate) Porous Particles. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1949-1954.	2.0	41
31	Synthesis and Thermomechanical and Rheological Properties of Biodegradable Long-Chain Branched Poly(butylene succinate- <i>co</i> -butylene terephthalate) Copolyesters. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10380-10386.	1.8	38
32	Hydrolytic and compost degradation of biobased PBSF and PBAF copolyesters with 40-60 mol% BF unit. <i>Polymer Degradation and Stability</i> , 2017, 146, 223-228.	2.7	36
33	Poly(<i>l</i> -lactic acid)-block-poly(butylene succinate- <i>co</i> -butylene adipate) Multiblock Copolymers: From Synthesis to Thermo-Mechanical Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3550-3558.	1.8	33
34	Synthesis of organic bisurea compounds and their roles as crystallization nucleating agents of poly(<i>l</i> -lactic acid). <i>European Polymer Journal</i> , 2013, 49, 865-872.	2.6	30
35	Stiffening, strengthening, and toughening of biodegradable poly(butylene adipate- <i>co</i> -terephthalate) with a low nanoinclusion usage. <i>Carbohydrate Polymers</i> , 2020, 247, 116687.	5.1	30
36	Potential for Using Simple 1,2,4-Triazole Salt Solutions as Highly Efficient CO ₂ Absorbents with Low Reaction Enthalpies. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8565-8570.	1.8	27

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37	Interfacial polycondensation of diphenolic acid and isophthaloyl chloride. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3586-3592.	1.3	26
38	Solvent-Assisted Room-Temperature Compression Molding Approach to Fabricate Porous Scaffolds for Tissue Engineering. <i>Macromolecular Bioscience</i> , 2006, 6, 747-757.	2.1	25
39	In-situ synthesis, thermal and mechanical properties of biobased poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td 121, 109266.	2.6	25
40	Hydrolytic degradation of biobased poly(butylene succinate- <i>co</i> -furandicarboxylate) and poly(butylene adipate- <i>co</i> -furandicarboxylate) copolyesters under mild conditions. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	24
41	Melt polycondensation of <i>l</i> -lactic acid catalyzed by 1,3-dialkylimidazolium ionic liquids. <i>Polymer International</i> , 2008, 57, 872-878.	1.6	23
42	Synthesis and CO ₂ Capture Behavior of Porous Cross-Linked Polymers Containing Pendant Triazole Groups. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10155-10163.	1.8	22
43	Mechanically reinforced biodegradable Poly(butylene adipate- <i>co</i> -terephthalate) with interactive nanoinclusions. <i>Polymer</i> , 2020, 197, 122518.	1.8	22
44	Kinetics and Modeling of Melt Polycondensation for Synthesis of Poly[(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (succinat Engineering, 2010, 4, 621-632.	0.9	21
45	Synthesis of High Molecular Weight Poly(<i>l</i> -lactic acid) via Melt/Solid State Polycondensation. II. Effect of Precrystallization on Solid State Polycondensation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5190-5196.	1.8	20
46	High molecular weight poly(butylene succinate- <i>co</i> -furandicarboxylate) with 10 mol% of BF unit: Synthesis, crystallization-melting behavior and mechanical properties. <i>European Polymer Journal</i> , 2017, 96, 248-255.	2.6	20
47	Sulfonated biodegradable PBAT copolyesters with improved gas barrier properties and excellent water dispersibility: From synthesis to structure-property. <i>Polymer Degradation and Stability</i> , 2020, 182, 109391.	2.7	20
48	Superior Gas Barrier Properties of Biodegradable PBST vs. PBAT Copolyesters: A Comparative Study. <i>Polymers</i> , 2021, 13, 3449.	2.0	20
49	Potentially Biodegradable <i>ε</i> -Short-Long α -Type Diol-Diacid Polyesters with Superior Crystallizability, Tensile Modulus, and Water Vapor Barrier. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 17362-17370.	3.2	20
50	Long chain branched poly(butylene succinate- <i>co</i> -terephthalate) copolyesters using pentaerythritol as branching agent: Synthesis, thermo-mechanical, and rheological properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	19
51	Biobased flexible aromatic polyester poly(1,5-pentylene terephthalate) (PPeT): Revisiting melt crystallization behaviors and thermo-mechanical properties. <i>European Polymer Journal</i> , 2019, 110, 168-175.	2.6	19
52	Isothermal cold crystallization and melting behaviors of poly(<i>l</i> -lactic acid)s prepared by melt polycondensation. <i>Journal of Applied Polymer Science</i> , 2010, 115, 702-708.	1.3	18
53	Poly(<i>l</i> -lactide) Materials with Balanced Mechanical Properties Prepared by Blending with PEG- <i>mb</i> -PPA Multiblock Copolymers. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2773-2782.	1.8	15
54	Poly (<i>l</i> -lactide)/PEG- <i>mb</i> -PBAT blends with highly improved toughness and balanced performance. <i>European Polymer Journal</i> , 2018, 100, 178-186.	2.6	15

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55	Synthesis of poly(L-lactic acid) with improved thermal stability by sulfonic acid-catalyzed melt/solid polycondensation. <i>Polymer Degradation and Stability</i> , 2013, 98, 1784-1789.	2.7	14
56	Modification of poly(ethylene 2,5-furandicarboxylate) with aliphatic polycarbonate diols: 1. Randomized copolymers with significantly improved ductility and high CO ₂ barrier performance. <i>European Polymer Journal</i> , 2020, 134, 109856.	2.6	14
57	Synthesis and Characterization of N,N-Bis(2-hydroxyethyl) Cinnamamide as a Photo-Responsive Monomer. <i>Designed Monomers and Polymers</i> , 2011, 14, 47-55.	0.7	13
58	Synthesis and properties of long chain polyesters from biobased 1,5-pentanediol and aliphatic ω -diacids with 10-16 carbon atoms. <i>Polymer Degradation and Stability</i> , 2021, 187, 109546.	2.7	13
59	Ring-Opening Copolymerization of Mixed Cyclic Monomers: A Facile, Versatile and Structure-Controllable Approach to Preparing Poly(methylphenylsiloxane) with Enhanced Thermal Stability. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7120-7130.	1.8	12
60	Synthesis of high molecular weight poly(L-lactic acid) via melt/solid polycondensation: Intensification of dehydration and oligomerization during melt polycondensation. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2780-2785.	1.3	10
61	Effect of Monomer Structure on Crystallization and Glass Transition of Flexible Copolyesters. <i>Journal of Polymers and the Environment</i> , 2017, 25, 1051-1061.	2.4	10
62	Biodegradable Polymers from 5-Hydroxylevulinic Acid: 1. Synthesis and Characterization of Poly(5-hydroxylevulinic acid). <i>Journal of Polymers and the Environment</i> , 2008, 16, 68-73.	2.4	9
63	Biobased 1,5-pentanediol derived aliphatic-aromatic copolyesters: Synthesis and thermo-mechanical properties of poly(pentylene succinate-co-terephthalate)s and poly(pentylene Tj ETQq1 1 0.784314 rgBT /Overlock.70 Tf 50917 Td (1.7	9
64	Synthesis and Characterization of Altaicadispirolactone. <i>Synthetic Communications</i> , 2005, 35, 2729-2733.	1.1	8
65	Graft Copolymerization of Styrene and Acrylonitrile in the Presence of Poly(propylene glycol): Kinetics and Modeling. <i>Macromolecular Reaction Engineering</i> , 2012, 6, 365-383.	0.9	8
66	Phase equilibria in quaternary mixtures of styrene, acrylonitrile, poly(styrene-co-acrylonitrile) and polypropylene glycol: Modeling and experimental studies. <i>Fluid Phase Equilibria</i> , 2012, 325, 20-27.	1.4	7
67	Poly(1,5-pentylene-co-2,2,4,4-tetramethyl cyclobutylene terephthalate) copolyesters with high T _g and improved ductility and thermal stability. <i>Polymer</i> , 2021, 232, 124152.	1.8	7
68	Classification and quantification of excavated soil and construction sludge: A case study in Wenzhou, China. <i>Frontiers of Structural and Civil Engineering</i> , 2022, 16, 202-213.	1.2	7
69	Aliphatic polycarbonate modified poly(ethylene furandicarboxylate) materials with improved ductility, toughness and high CO ₂ barrier performance. <i>Polymer</i> , 2022, 246, 124751.	1.8	6
70	Nucleating agent-containing P(LLA- <i>b</i> -BSA) multi-block copolymers with balanced mechanical properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	5
71	Synthesis and properties of poly(ethylene-co-diethylene glycol 2,5-furandicarboxylate) copolymers. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51921.	1.3	5
72	Poly(L-lactic acid)/silicon dioxide nanocomposite prepared via the <i>in situ</i> melt polycondensation of L-lactic acid in the presence of acidic silica sol: Isothermal crystallization and melting behaviors. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1045-1050.	1.3	4

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73	Synthesis and properties of crystalline dicarboxylated poly(L-lactic acid) prepolymers. Journal of Applied Polymer Science, 2011, 121, 3246-3251.	1.3	4
74	Modeling of Coesterification Process for Biodegradable Poly(Butylene Succinate-co-Butylene Terephthalate). Journal of Applied Polymer Science, 2010, 117, 3315-3321.	0.9	4
75	Synthesis and characterization of biodegradable crosslinked polymers from hydroxylevulinic acid and diols. Journal of Applied Polymer Science, 2010, 117, 3315-3321.	1.3	3
76	Kinetics and Modeling of Vinyl Acetate Graft Polymerization from Poly(ethylene glycol). Macromolecular Reaction Engineering, 2008, 2, 321-333.	0.9	2
77	The effect of ligand molecular weight on copper salt catalyzed oxidative coupling polymerization of 2,6-dimethylphenol. Journal of Applied Polymer Science, 2010, 117, 3473-3481.	1.3	2
78	Graft Copolymerization of Styrene and Acrylonitrile in the Presence of Poly(propylene glycol): Modeling and Simulation of Semi-Batch and Continuous Processes. Macromolecular Reaction Engineering, 2012, 6, 384-394.	0.9	2
79	Poly(L-lactic acid)/silicone dioxide nanocomposites prepared via <i>in situ</i> melt polycondensation of L-lactic acid in the presence of acidic silica sol: Dispersion stability of nanoparticles during dehydration/oligomerization. Journal of Applied Polymer Science, 2012, 124, 3980-3987.	1.3	2
80	Colorless Transparent Cyclobutanediol-Based Copolyesters with Excellent Polymerization Robustness, Thermal Stability, and High Performance. ACS Applied Polymer Materials, 2022, 4, 2006-2016.	2.0	1
81	Stability study of inverse suspension copolymerization of 1,1,3,3-tetramethylguanidium acrylate and N-methylenebisacrylamide. Journal of Applied Polymer Science, 2010, 118, 1450-1454.	1.3	0
82	Graft Copolymerization of Styrene and Acrylonitrile in the Presence of Poly(propylene glycol): Particle Growth. Macromolecular Reaction Engineering, 2012, 6, 395-405.	0.9	0