List of Publications by Year in descending order

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YUN-YUAN WENC

#	Article	IF	CITATIONS
1	Preparation of poly(lactic acid)-based shape memory polymers with low response temperature utilizing composite plasticizers. Polymer Bulletin, 2022, 79, 4761-4781.	1.7	4
2	Reinforcing and Toughening Modification of PPC/PBS Blends Compatibilized with Epoxy Terminated Hyperbranched Polymers. Journal of Polymers and the Environment, 2022, 30, 461-471.	2.4	11
3	Effect of oligomers from epoxidized soybean oil and sebacic acid on the toughness of <scp>polylactic acid</scp> /bamboo fiber composites. Journal of Applied Polymer Science, 2022, 139, 51583.	1.3	5
4	Toughening of poly(3â€hydroxybutyrateâ€coâ€3â€hydroxyvalerate) by phenyl terminated hyperbranched polyesters with higher thermal stability. Journal of Applied Polymer Science, 2022, 139, 51551.	1.3	3
5	Compatibilization and Toughening of Biodegradable Polylactic Acid/Cellulose Acetate Films by Polyamide Amine Dendrimers. Journal of Polymers and the Environment, 2022, 30, 1758-1771.	2.4	6
6	Fluorescence-activated droplet sorting of PET degrading microorganisms. Journal of Hazardous Materials, 2022, 424, 127417.	6.5	31
7	Designing high performance polymer nanocomposites by incorporating robustness-controlled polymeric nanoparticles: insights from molecular dynamics. Physical Chemistry Chemical Physics, 2022, 24, 2813-2825.	1.3	4
8	Kinetic analysis of PGA/PBAT plastic films for strawberry fruit preservation quality and enzyme activity. Journal of Food Composition and Analysis, 2022, 108, 104439.	1.9	20
9	Properties and Degradability of Poly(Butylene Adipate-Co-Terephthalate)/Calcium Carbonate Films Modified by Polyethylene Glycol. Polymers, 2022, 14, 484.	2.0	16
10	Adopting Intrinsic Hydrophilic Thermoplastic Starch Composites to Fabricate Antifogging Sustainable Films with High Antibiosis and Transparency. ACS Sustainable Chemistry and Engineering, 2022, 10, 3661-3672.	3.2	14
11	Progress in the Development of Graphene-Based Biomaterials for Tissue Engineering and Regeneration. Materials, 2022, 15, 2164.	1.3	20
12	Sidechain Metallopolymers with Precisely Controlled Structures: Synthesis and Application in Catalysis. Polymers, 2022, 14, 1128.	2.0	6
13	Fabrication and Characterization of Gelatin/Polyvinyl Alcohol Composite Scaffold. Polymers, 2022, 14, 1400.	2.0	17
14	Biodegradation Behavior of Degradable Mulch with Poly (Butylene Adipate-co-Terephthalate) (PBAT) and Poly (Butylene Succinate) (PBS) in Simulation Marine Environment. Polymers, 2022, 14, 1515.	2.0	21
15	Morphological control and interfacial compatibilization of fully biobased PLA/ENR blends via partial crosslinking ENR with sebacic acid. Industrial Crops and Products, 2022, 180, 114707.	2.5	15
16	Promotion Strategy of Ideological and Political Education Management in Colleges and Universities Using Clustering Techniques. Mobile Information Systems, 2022, 2022, 1-9.	0.4	1
17	<i>In Situ</i> Formation of Microfibrillar PBAT in PGA Films: An Effective Way to Robust Barrier and Mechanical Properties for Fully Biodegradable Packaging Films. ACS Omega, 2022, 7, 21280-21290.	1.6	17
18	Biodegradable-Renewable Vitrimer Fabrication by Epoxidized Natural Rubber and Oxidized Starch with Robust Ductility and Elastic Recovery. ACS Sustainable Chemistry and Engineering, 2022, 10, 7942-7953.	3.2	23

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19	Fabrication of sustainable and durable superwetting cotton fabrics with plant polyphenol for on-demand oil/water separation. Industrial Crops and Products, 2022, 186, 115264.	2.5	17
20	Degradation of poly(butylene adipate-co-terephthalate) by Stenotrophomonas sp. YCJ1 isolated from farmland soil. Journal of Environmental Sciences, 2021, 103, 50-58.	3.2	47
21	Enhancing gas barrier performance of polylactic acid/lignin composite films through cooperative effect of compatibilization and nucleation. Journal of Applied Polymer Science, 2021, 138, 50199.	1.3	33
22	Multifunctional cotton non-woven fabrics coated with silver nanoparticles and polymers for antibacterial, superhydrophobic and high performance microwave shielding. Journal of Colloid and Interface Science, 2021, 582, 112-123.	5.0	189
23	Effect of chain extender and light stabilizer on the weathering resistance of PBAT/PLA blend films prepared by extrusion blowing. Polymer Degradation and Stability, 2021, 183, 109455.	2.7	57
24	Enhancing the Crystallization Performance of Poly(L-lactide) by Intramolecular Hybridizing with Tunable Self-assembly-type Oxalamide Segments. Chinese Journal of Polymer Science (English Edition), 2021, 39, 122-132.	2.0	9
25	Malleable and thermally recyclable polyurethane foam. Green Chemistry, 2021, 23, 307-313.	4.6	51
26	Enhanced Extracellular Production of <i>Is</i> PETase in <i>Escherichia coli</i> via Engineering of the pelB Signal Peptide. Journal of Agricultural and Food Chemistry, 2021, 69, 2245-2252.	2.4	56
27	Degradation of polylactic acid/polybutylene adipate-co-terephthalate by coculture of Pseudomonas mendocina and Actinomucor elegans. Journal of Hazardous Materials, 2021, 403, 123679.	6.5	38
28	A Review: Research Progress in Modification of Poly (Lactic Acid) by Lignin and Cellulose. Polymers, 2021, 13, 776.	2.0	19
29	Biobased High-Performance Epoxy Vitrimer with UV Shielding for Recyclable Carbon Fiber Reinforced Composites. ACS Sustainable Chemistry and Engineering, 2021, 9, 4638-4647.	3.2	133
30	Enhancement of Mechanical and Barrier Property of Hemicellulose Film via Crosslinking with Sodium Trimetaphosphate. Polymers, 2021, 13, 927.	2.0	12
31	Unprecedented Cell Structure Variation in Multilayered Alternating PS/PS–SiO ₂ Foams. ACS Applied Polymer Materials, 2021, 3, 2687-2693.	2.0	5
32	Improved properties of poly(butylene adipate oâ€ŧerephthalate)/calcium carbonate films through silane modification. Journal of Applied Polymer Science, 2021, 138, 50970.	1.3	16
33	Highâ€ŧoughening modification of polylactic acid by longâ€chain hyperbranched polymers. Journal of Applied Polymer Science, 2021, 138, 51295.	1.3	10
34	Enhanced crystallization and storage stability of mechanical properties of biosynthesized poly (3-hydroxybutyrate-co-3-hydroxyhexanate) induced by self-nucleation. International Journal of Biological Macromolecules, 2021, 184, 797-803.	3.6	7
35	Study on ultralight and flexible Fe3O4/melamine derived carbon foam composites for high-efficiency microwave absorption. Chemical Physics Letters, 2021, 779, 138873.	1.2	20
36	Fabrication of recyclable nucleating agent and its effect on crystallization, gas barrier, thermal, and mechanical performance of Poly(-lactide). Polymer, 2021, 231, 124121.	1.8	13

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37	Effects of CaCO3 surface modification and water spraying on the weathering properties of PBAT/CaCO3 films. Polymer Testing, 2021, 102, 107334.	2.3	23
38	Preparation and properties of modified aluminum diethylphosphinate flame retardant for lowâ€density polyethylene. Journal of Applied Polymer Science, 2021, 138, 50393.	1.3	11
39	Fabrication of UV- and Heat-Resistant PDLA/PLLA- <i>g</i> -Nanolignin Composite Films by Constructing Interfacial Stereocomplex Crystallites. ACS Sustainable Chemistry and Engineering, 2021, 9, 15875-15883.	3.2	14
40	Design of Novel PLA/OMMT Films with Improved Gas Barrier and Mechanical Properties by Intercalating OMMT Interlayer with High Gas Barrier Polymers. Polymers, 2021, 13, 3962.	2.0	6
41	Catalytic Scenarios Over Metal-Carbon Interaction Interface. Frontiers in Chemistry, 2021, 9, 810147.	1.8	2
42	Safety Risks of Plant Fiber/Plastic Composites (PPCs) Intended for Food Contact: A Review of Potential Hazards and Risk Management Measures. Toxics, 2021, 9, 343.	1.6	4
43	Achieving highly crystalline rate and crystallinity in Poly(l-lactide) via in-situ melting reaction with diisocyanate and benzohydrazine to form nucleating agents. Polymer Testing, 2020, 81, 106216.	2.3	9
44	Poly(lactic acid)/lignin films with enhanced toughness and anti-oxidation performance for active food packaging. International Journal of Biological Macromolecules, 2020, 144, 102-110.	3.6	119
45	Achieving Slope-Reigned Na-Ion Storage in Carbon Nanofibers by Constructing Defect-Rich Texture by a Cu-Activation Strategy. ACS Applied Materials & Interfaces, 2020, 12, 2407-2416.	4.0	4
46	Barrier Film of Etherified Hemicellulose from Single-Step Synthesis. Polymers, 2020, 12, 2199.	2.0	6
47	Enhancement of Gas Barrier Properties of Graphene Oxide/Poly (Lactic Acid) Films Using a Solvent-free Method. Materials, 2020, 13, 3024.	1.3	17
48	Improvement of the Gas Barrier Properties of PLA/OMMT Films by Regulating the Interlayer Spacing of OMMT and the Crystallinity of PLA. ACS Omega, 2020, 5, 18675-18684.	1.6	50
49	Hemicellulose-Based Film: Potential Green Films for Food Packaging. Polymers, 2020, 12, 1775.	2.0	53
50	Biodegradation Behavior of Poly(Butylene Adipate-Co-Terephthalate) (PBAT), Poly(Lactic Acid) (PLA), and Their Blend in Freshwater with Sediment. Molecules, 2020, 25, 3946.	1.7	94
51	Effects of microencapsulated abamectin on the mechanical, cross-linking, and release properties of PBS. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111290.	2.5	1
52	Sustainable Epoxy Vitrimers from Epoxidized Soybean Oil and Vanillin. ACS Sustainable Chemistry and Engineering, 2020, 8, 15020-15029.	3.2	140
53	Highly toughened and heat resistant poly(l-lactide)/poly(ε-caprolactone) blends via engineering balance between kinetics and thermodynamics of phasic morphology with stereocomplex crystallite. Composites Part B: Engineering, 2020, 197, 108155.	5.9	27
54	Controllable synthesis and microwave absorption properties of Fe3O4@f-GNPs nanocomposites. Composites Communications, 2020, 20, 100363.	3.3	28

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55	Investigation on compatibility of PLA/PBAT blends modified by epoxy-terminated branched polymers through chemical micro-crosslinking. E-Polymers, 2020, 20, 39-54.	1.3	36
56	Effect of Diisocyanates as Compatibilizer on the Properties of BF/PBAT Composites by In Situ Reactive Compatibilization, Crosslinking and Chain Extension. Materials, 2020, 13, 806.	1.3	21
57	Synthesis of PLA-based thermoplastic elastomer and study on preparation and properties of PLA-based shape memory polymers. Materials Research Express, 2020, 7, 015315.	0.8	16
58	A Review on the Contemporary Development of Composite Materials Comprising Graphene/Graphene Derivatives. Advances in Materials Science and Engineering, 2020, 2020, 1-16.	1.0	11
59	Improving Interfacial Adhesion of PLA/Lignin Composites by One-Step Solvent-Free Modification Method. Journal of Renewable Materials, 2020, 8, 1139-1147.	1.1	20
60	Fully Sustainable, Nanoparticle-Free, Fluorine-Free, and Robust Superhydrophobic Cotton Fabric Fabricated via an Eco-Friendly Method for Efficient Oil/Water Separation. ACS Sustainable Chemistry and Engineering, 2019, 7, 15696-15705.	3.2	86
61	Malleable and Sustainable Poly(ester amide) Networks Synthesized via Melt Condensation Polymerization. ACS Sustainable Chemistry and Engineering, 2019, 7, 15147-15153.	3.2	66
62	Fully biobased polylactide/epoxidized soybean oil resin blends with balanced stiffness and toughness by dynamic vulcanization. Polymer Testing, 2019, 78, 105981.	2.3	13
63	Effect of organic solvent on enzymatic degradation of cyclic PBS-based polymers by lipase N435. International Journal of Biological Macromolecules, 2019, 137, 215-223.	3.6	6
64	Toward durable and robust superhydrophobic cotton fabric through hydrothermal growth of ZnO for oil/water separation. Cellulose, 2019, 26, 8121-8133.	2.4	32
65	Biodegradable PLA/PBAT mulch on microbial community structure in different soils. International Biodeterioration and Biodegradation, 2019, 145, 104817.	1.9	43
66	Adjusting Distribution of Multiwall Carbon Nanotubes in Poly(<scp>L</scp> -lactide)/Poly(oxymethylene) Blends via Constructing Stereocomplex Crystallites: Toward Conductive and Microwave Shielding Enhancement. Journal of Physical Chemistry C, 2019, 123, 27884-27895	1.5	22
67	Robust and nanoparticle-free superhydrophobic cotton fabric fabricated from all biological resources for oil/water separation. International Journal of Biological Macromolecules, 2019, 140, 1175-1182.	3.6	21
68	Biodegradation Behavior of Poly (Lactic Acid) (PLA), Poly (Butylene Adipate-Co-Terephthalate) (PBAT), and Their Blends Under Digested Sludge Conditions. Journal of Polymers and the Environment, 2019, 27, 2784-2792.	2.4	41
69	Structure-property relationship in fully biobased epoxidized soybean oil thermosets cured by dicarboxyl terminated polyamide 1010 oligomer with different carboxyl/epoxy ratios. Polymer Testing, 2019, 79, 106057.	2.3	17
70	Fabrication and Application of Carboxymethyl Cellulose-Carbon Nanotube Aerogels. Materials, 2019, 12, 1867.	1.3	11
71	Thermo-sensitive micelles based on amphiphilic poly(butylene 2-methylsuccinate)-poly(ethylene glycol) multi-block copolyesters as the pesticide carriers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 84-93.	2.3	16
72	Effects of Sodium Montmorillonite on the Preparation and Properties of Cellulose Aerogels. Polymers, 2019, 11, 415.	2.0	19

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73	BTBUFood-60: Dataset for Object Detection in Food Field. , 2019, , .		10
74	Preparation and Gas Separation Properties of Triptyceneâ€Based Microporous Polyimide. Macromolecular Chemistry and Physics, 2019, 220, 1900047.	1.1	19
75	Preparation and properties of PLA/PHBV/PBAT blends 3D printing filament. Materials Research Express, 2019, 6, 065401.	0.8	12
76	Localization control of carbon nanotubes in immiscible polymer blends through dynamic vulcanization. Composites Part B: Engineering, 2019, 167, 683-689.	5.9	37
77	Silicone Rubber Composites with High Breakdown Strength and Low Dielectric Loss Based on Polydopamine Coated Mica. Polymers, 2019, 11, 2030.	2.0	31
78	Achieving high dielectric permittivity, high breakdown strength and high efficiency by cross-linking of poly(vinylidene fluoride)/BaTiO3 nanocomposites. Composites Science and Technology, 2019, 169, 142-150.	3.8	42
79	Manufacture of a hydrophobic CaO/polylactic acid composite. Materials and Manufacturing Processes, 2019, 34, 303-311.	2.7	11
80	Simultaneously reinforcing and toughening of poly(propylene carbonate) by epoxy-terminated hyperbranched polymer(EHBP) through micro-crosslinking. Polymer Bulletin, 2019, 76, 5733-5749.	1.7	11
81	Relating Chemical Structure to Toughness via Morphology Control in Fully Sustainable Sebacic Acid Cured Epoxidized Soybean Oil Toughened Polylactide Blends. Macromolecules, 2018, 51, 2027-2037.	2.2	141
82	Improved dielectric and energy storage properties of poly(vinyl alcohol) nanocomposites by strengthening interfacial hydrogen-bonding interaction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 548, 179-190.	2.3	21
83	An investigation of the impact of an amino-ended hyperbranched polymer as a new type of modifier on the compatibility of PLA/PBAT blends. Journal of Polymer Engineering, 2018, 38, 223-229.	0.6	5
84	Influence of ether bond on degradation property of PBS-based copolymers at molecular level using molecular simulations. Journal of Polymer Research, 2018, 25, 1.	1.2	4
85	Influence of ether linkage on the enzymatic degradation of PBS copolymers: Comparative study on poly (butylene succinate-co-diethylene glycol succinate) and poly (butylene succinate-co-butylene) Tj ETQq1 1 0.	.78 9.8 14 rg	gB 1 2Overlock
86	Cellulose Aerogels: Synthesis, Applications, and Prospects. Polymers, 2018, 10, 623.	2.0	311
87	Poly(lactic acid)/biobased polyurethane blends with balanced mechanical strength and toughness. Polymer Testing, 2018, 69, 9-15.	2.3	28
88	The Investigation of the Toughening Mechanism of PHBV/PBAT with a Novel Hyperbranched Ethylenediamine Triazine Polymer Based Modifier: The Formation of the Transition Layer and the Microcrosslinking Structure. Journal of Polymers and the Environment, 2018, 26, 4158-4167.	2.4	12
89	Design of a self-healing cross-linked polyurea with dynamic cross-links based on disulfide bonds and hydrogen bonding. European Polymer Journal, 2018, 107, 249-257.	2.6	97
90	Optimization of the preparation process of biodegradable masterbatches and characterization of their rheological and application properties. Polymer Testing, 2018, 70, 526-532.	2.3	6

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91	Extracting compressive stress-strain curve based on stick-slip shear banding process in bulk metallic glasses. Journal of Iron and Steel Research International, 2017, 24, 372-377.	1.4	1
92	Effect of Bamboo Flour Grafted Lactide on the Interfacial Compatibility of Polylactic Acid/Bamboo Flour Composites. Polymers, 2017, 9, 323.	2.0	17
93	Special topic on bio-based and biodegradable polymers. Science China Chemistry, 2016, 59, 1353-1354.	4.2	0
94	Modification of poly(propylene carbonate) with chain extender ADR-4368 to improve its thermal, barrier, and mechanical properties. Polymer Testing, 2016, 54, 301-307.	2.3	30
95	Preparation and characterization of biodegradable blends of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) and poly(butylene adipate-co-terephthalate). Journal of Polymer Engineering, 2016, 36, 473-480.	0.6	11
96	Modeling and Simulation of a Co-current Rotary Dryer. International Journal of Food Engineering, 2016, 12, 189-194.	0.7	2
97	Chain extension and modification of polypropylene carbonate using diphenylmethane diisocyanate. Polymer International, 2015, 64, 1491-1496.	1.6	8
98	Characterization of the effect of REC on the compatibility of PHBH and PLA. Polymer Testing, 2015, 42, 17-25.	2.3	25
99	Modeling the Total Residence Time in a Rotary Dryer. International Journal of Food Engineering, 2015, 11, 405-410.	0.7	7
100	Effect of blending with polyamidoamine (PAMAM) dendrimer on the toughness of poly(hydroxybutyrate-co-hydroxyvalerate) (PHBV). Journal of Materials Science, 2015, 50, 794-800.	1.7	5
101	Heat resistance, crystallization behavior, and mechanical properties of polylactide/nucleating agent composites. Materials & Design, 2015, 66, 7-15.	5.1	86
102	The Development and Commercialization of Biobased, Biodegradable Plastics in China. Industrial Biotechnology, 2014, 10, 73-78.	0.5	1
103	Characterization of interfacial compatibility of polylactic acid and bamboo flour (PLA/BF) in biocomposites. Polymer Testing, 2014, 36, 119-125.	2.3	108
104	Biodegradation behavior of poly(butylene adipate-co-terephthalate) (PBAT), poly(lactic acid) (PLA), and their blend under soil conditions. Polymer Testing, 2013, 32, 918-926.	2.3	375
105	Biodegradation behavior of P(3HB,4HB)/PLA blends in real soil environments. Polymer Testing, 2013, 32, 60-70.	2.3	109
106	Biodegradation behavior of PHAs with different chemical structures under controlled composting conditions. Polymer Testing, 2011, 30, 372-380.	2.3	140
107	Biodegradation behavior of PHBV films in a pilot-scale composting condition. Polymer Testing, 2010, 29, 579-587.	2.3	90