

Pu-xin Zhu

List of Publications by Year in descending order

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65
papers

1,064
citations

393982

19
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454577

30
g-index

65
all docs

65
docs citations

65
times ranked

1213
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and properties of urea-plasticized starch films with different urea contents. Carbohydrate Polymers, 2014, 101, 1109-1115.	5.1	96
2	Transition Metal and Metalâ€“N<i>_x</i> Codoped MOFâ€“Derived Fentonâ€“Like Catalysts: A Comparative Study on Single Atoms and Nanoparticles. Small, 2020, 16, e2005060.	5.2	72
3	A facile approach for coating Ti3C2Tx on cotton fabric for electromagnetic wave shielding. Cellulose, 2019, 26, 2833-2847.	2.4	61
4	Augmenting Intrinsic Fenton-Like Activities of MOF-Derived Catalysts via N-Molecule-Assisted Self-catalyzed Carbonization. Nano-Micro Letters, 2019, 11, 87.	14.4	59
5	Fabrication and characterization of starch-based nanocomposites reinforced with montmorillonite and cellulose nanofibers. Carbohydrate Polymers, 2019, 210, 429-436.	5.1	57
6	Improvement of filtration and antifouling performance of cellulose acetate membrane reinforced by dopamine modified cellulose nanocrystals. Journal of Membrane Science, 2021, 637, 119621.	4.1	45
7	Comparison of mechanical reinforcement effects of cellulose nanocrystal, cellulose nanofiber, and microfibrillated cellulose in starch composites. Polymer Composites, 2019, 40, E365.	2.3	44
8	Effect of Glycerol on Water Vapor Sorption and Mechanical Properties of Starch/Clay Composite Films. Starch/Staerke, 2008, 60, 257-262.	1.1	39
9	Solid state oxidation of polyvinyl alcohol by hydrogen peroxide-Cu (II). Polymer Degradation and Stability, 2013, 98, 1103-1109.	2.7	34
10	Analyses of structures for a synthetic leather made of polyurethane and microfiber. Journal of Applied Polymer Science, 2007, 103, 903-908.	1.3	33
11	Dissolution of starch in urea/NaOH aqueous solutions. Journal of Applied Polymer Science, 2016, 133, .	1.3	31
12	Physicochemical changes of maize starch treated by ball milling with limited water content. Starch/Staerke, 2015, 67, 772-779.	1.1	29
13	Effect of hyperbranched poly(trimellitic glyceride) with different molecular weight on starch plasticization and compatibility with polyester. Carbohydrate Polymers, 2018, 195, 107-113.	5.1	27
14	Effect of the structure of curing agents modified by epoxidized oleic esters on the toughness of cured epoxy resins. Journal of Applied Polymer Science, 2011, 119, 3504-3510.	1.3	24
15	Effect of sodium citrate/polyethylene glycol on plasticization and retrogradation of maize starch. International Journal of Biological Macromolecules, 2020, 154, 1471-1477.	3.6	24
16	Allâ€“cellulose films with excellent strength and toughness via a facile approach of dissolutionâ€“regeneration. Journal of Applied Polymer Science, 2019, 136, 46925.	1.3	21
17	Synthesis of long-chain fatty acid starch esters in aqueous medium and its characterization. European Polymer Journal, 2019, 119, 136-147.	2.6	21
18	Polysulfone nanofibers prepared by electrospinning and gas/jet-electrospinning. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2006, 1, 334-339.	0.4	19

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19	Effect of adding a small amount of high molecular weight polyacrylamide on properties of oxidized cassava starch. <i>Carbohydrate Polymers</i> , 2010, 81, 911-918.	5.1	19
20	Bioinspired approach to enhance mechanical properties of starch based nacre-mimetic nanocomposite. <i>Carbohydrate Polymers</i> , 2019, 221, 113-119.	5.1	17
21	Programmable Release of Berberine Chloride Hydrate from Shape Memory Fibers Prepared from Core-Sheath Wet-Spinning Technology. <i>Journal of Biomedical Nanotechnology</i> , 2019, 15, 1432-1442.	0.5	15
22	Transition sandwich Janus membrane of cellulose acetate and polyurethane nanofibers for oil/water separation. <i>Cellulose</i> , 2022, 29, 1841-1853.	2.4	15
23	Poly(citrate glyceride): a hyperbranched polyester for starch plasticization. <i>Polymer International</i> , 2018, 67, 399-404.	1.6	14
24	Microfibrillated cellulose modified with urea and its reinforcement for starch-based bionanocomposites. <i>Cellulose</i> , 2019, 26, 5981-5993.	2.4	14
25	Effect of stearic acid and sodium stearate on cast cornstarch films. <i>Journal of Applied Polymer Science</i> , 2012, 124, 3782-3791.	1.3	13
26	Highly Efficient Preparation of Carboxymethyl Starch via Ball Milling With Limited Solvent Content. <i>Starch/Staerke</i> , 2018, 70, 1700250.	1.1	12
27	Preparation of oxidized corn starch with high degree of oxidation by fenton-like oxidation assisted with ball milling. <i>Materials Today Communications</i> , 2020, 22, 100793.	0.9	12
28	Comparison of Mechanical Reinforcement Effects of Cellulose Nanofibers and Montmorillonite in Starch Composite. <i>Starch/Staerke</i> , 2019, 71, 1800114.	1.1	11
29	Highly Performance Starch Films Reinforced With Microcrystalline Cellulose Made From Eucalyptus Pulp via Ball Milling and Mercerization. <i>Starch/Staerke</i> , 2019, 71, 1800218.	1.1	11
30	Effect of Microfibrillated Cellulose Loading on Physical Properties of Starch/Polyvinyl Alcohol Composite Films. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020, 35, 825-831.	0.4	11
31	Highly performance starch/clay bionanocomposite for textile warp sizing. <i>Polymer Composites</i> , 2018, 39, E441.	2.3	10
32	Aging properties and hydrophilicity of maize starch plasticized by hyperbranched poly(citrate) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	1.3	10
33	A starch/milled montmorillonite nanocomposite for warp sizing. <i>Starch/Staerke</i> , 2012, 64, 97-104.	1.1	9
34	Preparation of cellulose nanocrystals and their application in reinforcing viscose filaments. <i>Cellulose</i> , 2020, 27, 10553-10565.	2.4	9
35	Improvement of filtration performance of polyvinyl chloride/cellulose acetate blend membrane via acid hydrolysis. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50312.	1.3	9
36	Preparation and characterization of starch-based nanocomposites reinforced by graphene oxide self-assembled on the surface of silane coupling agent modified cellulose nanocrystals. <i>International Journal of Biological Macromolecules</i> , 2022, 198, 187-193.	3.6	9

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37	Synthesis and Characterization of Corn Starch Phthalate by a Semidry Method. <i>Starch/Staerke</i> , 2019, 71, 1800315.	1.1	8
38	Surface Properties of Butanol Phosphate Esters in Alkali Solutions. <i>Journal of Surfactants and Detergents</i> , 2010, 13, 201-206.	1.0	7
39	Adsorption thermodynamics and kinetics of disperse dye on poly(p-phenylene benzobisoxazole) fiber pretreated with polyphosphoric acid. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1810-1818.	1.2	7
40	Superhydrophobic polytetrafluoroethylene nanofiber membranes prepared by vacuum sintering and their application in vacuum membrane distillation. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49060.	1.3	7
41	Preparation and Performance Evaluation of Antibacterial Melt-Spun Polyurethane Fiber Loaded with Berberine Hydrochloride. <i>Polymers</i> , 2021, 13, 2336.	2.0	7
42	A comparative investigation of gelatinized and regenerated starch composites reinforced by microfibrillated cellulose. <i>Food Chemistry</i> , 2022, 373, 131470.	4.2	7
43	Pretreating poly(p-phenylene benzobisoxazole) fibre with polyphosphoric acid and dyeing with disperse dyes. <i>Coloration Technology</i> , 2013, 129, 367-376.	0.7	6
44	Super-tough poly (l-lactide) materials: Reactive blending with maleic anhydride grafted starch and poly (ethylene glycol) diacrylate. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 1069-1075.	3.6	6
45	New disperse dyeing method of poly(p-phenylene benzobisoxazole) fiber pretreated with polyphosphoric acid. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 2133-2141.	1.2	5
46	Effect of hyperbranched poly(citric polyethylene glycol) with different polyethylene glycol chain length on starch sizing and compatibility with blended yarns. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48928.	1.3	5
47	Preparation of Microfibrillated Cellulose from Wood Pulp through Carbamate Modification and Colloid Milling. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1977.	1.3	5
48	Solid state grafting copolymerization of acrylamide onto poly(vinyl alcohol) initiated by redox system. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	4
49	Effect of hyperbranched poly(citric polyethylene glycol) with various polyethylene glycol chain lengths on starch plasticization and retrogradation. <i>Polymer International</i> , 2020, 69, 274-279.	1.6	4
50	Synergistic effects of sodium adipate/triethylene glycol on the plasticization and retrogradation of corn starch. <i>Carbohydrate Research</i> , 2020, 496, 108112.	1.1	4
51	Preparation of oxidized corn starch in dry method assisted by kneader. <i>Materials Express</i> , 2021, 11, 100-106.	0.2	4
52	Properties of water-soluble acrylic copolymer/montmorillonite nanocomposites for warp sizing. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2958-2964.	1.3	3
53	Fabrication and characterization of electrically conductive copper coated poly(p-phenylene-2,6-benzobisoxazole) yarn. <i>Materials Technology</i> , 2020, 35, 767-776.	1.5	3
54	Preparation of waterborne elastic polyesters by chain extension with isophorone diisocyanate as a chain extender. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48453.	1.3	3

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55	Synthesis and monolayer film of a series of new twin-tailed gemini cationic surfactants at the air/water interface. <i>Open Chemistry</i> , 2008, 6, 477-481.	1.0	2
56	Preparation of triethylene glycol maleate and its effect on plasticization of oxidized starch. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 1167-1173.	0.4	2
57	Effect of hyperbranched poly(trimellitic glyceride) paired with different metal ions on the physicochemical properties of starch. <i>Food Chemistry</i> , 2020, 311, 125899.	4.2	2
58	Effect of star-shaped polyesters with different chain length on starch paste and film. <i>Progress in Organic Coatings</i> , 2021, 157, 106290.	1.9	2
59	Two-Stage in Situ Intercalation Polymerization of Acrylic Copolymer/Montmorillonite Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 7784-7790.	1.8	1
60	Characterization and Properties of Long-Chain Fatty Acid Starch Esters Prepared with Regenerated Starch by Dry Method. <i>Starch/Staerke</i> , 2019, 71, 1900143.	1.1	1
61	Robust Starch/Regenerated Cellulose All- <i>Polysaccharides</i> Bilayer Films with Excellent Mechanical Properties. <i>Starch/Staerke</i> , 2020, 72, 1900153.	1.1	1
62	Comparative Case Study on Adhesion of Three Common Sizing Agents to Cotton and Polyester Yarns. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2021, 36, 157-165.	0.4	1
63	Synthesis and characterization of methyltetrahydrophthalic anhydride esterified corn starch by wet method. <i>Materials Express</i> , 2021, 11, 1223-1230.	0.2	1
64	Freeze-casting porous PTFE foam via constant temperature cold source. <i>Journal of Porous Materials</i> , 2021, 28, 1523-1533.	1.3	0
65	Effects of Waterborne Elastic Polyester with Different Compositions on the Properties and Compatibility of Maize Starch. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2021, 36, 465-471.	0.4	0