

Peng Liu

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,274
citations

394286

19
h-index

526166

27
g-index

32
all docs

32
docs citations

32
times ranked

1254
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheological properties of starches with different amylose/amylopectin ratios. <i>Journal of Cereal Science</i> , 2009, 49, 371-377.	1.8	211
2	Extrusion processing and characterization of edible starch films with different amylose contents. <i>Journal of Food Engineering</i> , 2011, 106, 95-101.	2.7	182
3	Glass transition temperature of starch studied by a high-speed DSC. <i>Carbohydrate Polymers</i> , 2009, 77, 250-253.	5.1	136
4	Glass transition temperature of starches with different amylose/amylopectin ratios. <i>Journal of Cereal Science</i> , 2010, 51, 388-391.	1.8	86
5	Phase transitions of maize starches with different amylose contents in glycerol/water systems. <i>Carbohydrate Polymers</i> , 2011, 85, 180-187.	5.1	74
6	The properties of antimicrobial films derived from poly(lactic acid)/starch/chitosan blended matrix. <i>Carbohydrate Polymers</i> , 2013, 98, 959-966.	5.1	69
7	Shear degradation of corn starches with different amylose contents. <i>Food Hydrocolloids</i> , 2017, 66, 199-205.	5.6	50
8	Rheological properties of thermoplastic starch studied by multipass rheometer. <i>Carbohydrate Polymers</i> , 2011, 83, 914-919.	5.1	46
9	Understanding the structural features of high-amylose maize starch through hydrothermal treatment. <i>International Journal of Biological Macromolecules</i> , 2016, 84, 268-274.	3.6	44
10	Zinc chloride aqueous solution as a solvent for starch. <i>Carbohydrate Polymers</i> , 2016, 136, 266-273.	5.1	37
11	All-Starch-Based Hydrogel for Flexible Electronics: Strain-Sensitive Batteries and Self-Powered Sensors. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6724-6735.	3.2	34
12	Structure, thermal stability and suspension rheological properties of alcohol-alkali-treated waxy rice starch. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 397-404.	3.6	32
13	Starch-zinc complex and its reinforcement effect on starch-based materials. <i>Carbohydrate Polymers</i> , 2019, 206, 528-538.	5.1	29
14	Facile Preparation of Eco-Friendly, Flexible Starch-Based Materials with Ionic Conductivity and Strain-Responsiveness. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 19117-19128.	3.2	27
15	Structural Disorganization and Chain Aggregation of High-Amylose Starch in Different Chloride Salt Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4838-4847.	3.2	26
16	Gluten-starch interactions in wheat gluten during carboxylic acid deamidation upon hydrothermal treatment. <i>Food Chemistry</i> , 2019, 283, 111-122.	4.2	25
17	Comparison of the structure and properties of hydroxypropylated acid-hydrolysed maize starches with different amylose/amylopectin contents. <i>Food Hydrocolloids</i> , 2021, 110, 106134.	5.6	23
18	Double-network hydrogels with superior self-healing properties using starch reinforcing strategy. <i>Carbohydrate Polymers</i> , 2021, 257, 117626.	5.1	23

#	ARTICLE	IF	CITATIONS
19	Starch thermal transitions comparatively studied by DSC and MTDSC. <i>Starch/Staerke</i> , 2010, 62, 350-357.	1.1	20
20	Physical properties and prebiotic activity of maize starch-based functional films. <i>Starch/Staerke</i> , 2015, 67, 124-131.	1.1	20
21	Processing of Plasticized Starch-Based Materials. , 2014, , 257-289.		15
22	Cellulose-starch Hybrid Films Plasticized by Aqueous ZnCl ₂ Solution. <i>International Journal of Molecular Sciences</i> , 2019, 20, 474.	1.8	14
23	Water stress affects on cell membrane lipid oxidation and calcification of chestnut (<i>Castanea</i>) Tj ETQq1 1 0.784314,rgBT /Overlock 10 2.95 12		
24	Application of Atomic Force Microscopy on Studying Micro- and Nano-Structures of Starch. <i>International Journal of Food Engineering</i> , 2008, 4, .	0.7	10
25	Investigation of rheological properties and conformation of cassava starch in zinc chloride solution. <i>Starch/Staerke</i> , 2017, 69, 1600384.	1.1	10
26	Effect of resistant starch film properties on the colon-targeting release of drug from coated pellets. <i>Journal of Controlled Release</i> , 2011, 152, e5-e7.	4.8	8
27	Scanning probe acoustic microscopy of extruded starch materials: Direct visual evidence of starch crystal. <i>Carbohydrate Polymers</i> , 2013, 98, 372-379.	5.1	6
28	The Thermal and Rheological Properties of Starch Plasticized in Glycerol-Water Mixture. <i>Advanced Materials Research</i> , 0, 343-344, 38-42.	0.3	2
29	Study on the Properties of Poly(lactic Acid) and Thermal Plastic Starch Blended Materials Plasticized by PEG 200. <i>Advanced Materials Research</i> , 0, 550-553, 813-817.	0.3	1
30	Differences of Nano-Structure between Waxy and Normal Starch. <i>Advanced Materials Research</i> , 0, 528, 241-244.	0.3	1
31	Facile preparation of hydrogel glue with high strength and antibacterial activity from physically linked network. <i>International Journal of Pharmaceutics</i> , 2022, 622, 121843.	2.6	1
32	The Extrapolation Method for Hyper Differential Scanning Calorimetry. <i>Advanced Materials Research</i> , 2012, 554-556, 1994-1998.	0.3	0