

Huai N Cheng

List of Publications by Year in descending order

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106
papers

2,660
citations

185998

28
h-index

223531

46
g-index

107
all docs

107
docs citations

107
times ranked

2804
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of ball milling on the structure of cotton cellulose. <i>Cellulose</i> , 2019, 26, 305-328.	2.4	253
2	Solution NMR Spectroscopy of Food Polysaccharides. <i>Polymer Reviews</i> , 2012, 52, 81-114.	5.3	215
3	Synthesis of cellulose acetate from cotton byproducts. <i>Carbohydrate Polymers</i> , 2010, 80, 449-452.	5.1	87
4	Investigation of modified cottonseed protein adhesives for wood composites. <i>Industrial Crops and Products</i> , 2013, 46, 399-403.	2.5	76
5	Soy and cottonseed protein blends as wood adhesives. <i>Industrial Crops and Products</i> , 2016, 85, 324-330.	2.5	75
6	Application of tung oil to improve adhesion strength and water resistance of cottonseed meal and protein adhesives on maple veneer. <i>Industrial Crops and Products</i> , 2014, 61, 398-402.	2.5	65
7	Preparation and evaluation of hemicellulose films and their blends. <i>Food Hydrocolloids</i> , 2017, 70, 181-190.	5.6	65
8	Morphological influence of cellulose nanoparticles (CNs) from cottonseed hulls on rheological properties of polyvinyl alcohol/CN suspensions. <i>Carbohydrate Polymers</i> , 2016, 153, 445-454.	5.1	63
9	Physical and mechanical testing of essential oil-embedded cellulose ester films. <i>Polymer Testing</i> , 2016, 49, 156-161.	2.3	59
10	Assessment and application of phosphorus/calcium-cottonseed protein adhesive for plywood production. <i>Journal of Cleaner Production</i> , 2019, 229, 454-462.	4.6	58
11	Novel alginate-cellulose nanofiber-poly(vinyl alcohol) hydrogels for carrying and delivering nitrogen, phosphorus and potassium chemicals. <i>International Journal of Biological Macromolecules</i> , 2021, 172, 330-340.	3.6	54
12	Use of Nutshells as Fillers in Polymer Composites. <i>Journal of Polymers and the Environment</i> , 2012, 20, 305-314.	2.4	53
13	Sequential Fractionation of Cottonseed Meal to Improve Its Wood Adhesive Properties. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2014, 91, 151-158.	0.8	52
14	Evaluation of cotton byproducts as fillers for poly(lactic acid) and low density polyethylene. <i>Industrial Crops and Products</i> , 2012, 36, 127-134.	2.5	51
15	A Rapid and Specific Biosensor for Salmonella Typhimurium Detection in Milk. <i>Food and Bioprocess Technology</i> , 2018, 11, 748-756.	2.6	51
16	Soybean oil as a renewable feedstock for nitrogen-containing derivatives. <i>Energy and Environmental Science</i> , 2008, 1, 639.	15.6	50
17	Comparison of adhesive properties of water- and phosphate buffer-washed cottonseed meals with cottonseed protein isolate on maple and poplar veneers. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 102-106.	1.4	47
18	Use of additives to enhance the properties of cottonseed protein as wood adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2016, 68, 156-160.	1.4	47

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19	Cottonseed protein-based wood adhesive reinforced with nanocellulose. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 1357-1368.	1.4	47
20	Microwave-assisted extraction of soluble sugars from banana puree with natural deep eutectic solvents (NADES). <i>LWT - Food Science and Technology</i> , 2019, 107, 79-88.	2.5	46
21	¹³ C-NMR sequence determination for multicomponent polymer mixtures. <i>Journal of Applied Polymer Science</i> , 1988, 35, 1639-1650.	1.3	45
22	Complexation and blending of starch, poly(acrylic acid), and poly(N-vinyl pyrrolidone). <i>Carbohydrate Polymers</i> , 2006, 65, 397-403.	5.1	42
23	Enzyme-Catalyzed Modifications of Polysaccharides and Poly(ethylene glycol). <i>Polymers</i> , 2012, 4, 1311-1330.	2.0	41
24	Electrochemical immunosensors for Salmonella detection in food. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5301-5312.	1.7	38
25	Blending cottonseed meal products with different protein contents for cost-effective wood adhesive performances. <i>Industrial Crops and Products</i> , 2018, 126, 31-37.	2.5	36
26	Effects of Vigorous Blending on Yield and Quality of Protein Isolates Extracted From Cottonseed and Soy Flours. <i>Modern Applied Science</i> , 2013, 7, .	0.4	34
27	Transition-state geometry and stereochemistry of the ene reaction between olefins and maleic anhydride. <i>Journal of Organic Chemistry</i> , 1986, 51, 5093-5100.	1.7	30
28	Integrated approach for ¹³ C nuclear magnetic resonance shift prediction, spectral simulation and library search. <i>Analytica Chimica Acta</i> , 1994, 285, 223-235.	2.6	29
29	Effects of phosphorus-containing additives on soy and cottonseed protein as wood adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2017, 77, 51-57.	1.4	27
30	A Review of Cottonseed Protein Chemistry and Non-Food Applications. <i>Sustainable Chemistry</i> , 2020, 1, 256-274.	2.2	27
31	Chemical modification of cotton-based natural materials: Products from carboxymethylation. <i>Carbohydrate Polymers</i> , 2011, 84, 1004-1010.	5.1	26
32	Trends in shift rules in carbon-13 nuclear magnetic resonance spectroscopy and computer-aided shift prediction. <i>Analytica Chimica Acta</i> , 1991, 242, 43-56.	2.6	25
33	Conversion of cotton byproducts to mixed cellulose esters. <i>Carbohydrate Polymers</i> , 2011, 86, 1130-1136.	5.1	25
34	Room-temperature self-curing ene reactions involving soybean oil. <i>Green Chemistry</i> , 2008, 10, 290.	4.6	24
35	Microwave-assisted synthesis of cyclodextrin polyurethanes. <i>Carbohydrate Polymers</i> , 2015, 133, 74-79.	5.1	23
36	Physical Properties and Fatty Acid Profiles of Oils from Black, Kidney, Great Northern, and Pinto Beans. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2011, 88, 193-200.	0.8	22

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37	NMR Analysis of Poly(Lactic Acid) via Statistical Models. <i>Polymers</i> , 2019, 11, 725.	2.0	22
38	Comparison of the Adhesive Performances of Soy Meal, Water Washed Meal Fractions, and Protein Isolates. <i>Modern Applied Science</i> , 2016, 10, 112.	0.4	21
39	Hydrophobic Modification of Cashew Gum with Alkenyl Succinic Anhydride. <i>Polymers</i> , 2020, 12, 514.	2.0	20
40	Preparation and characterization of carboxymethyl cashew gum grafted with immobilized antibody for potential biosensor application. <i>Carbohydrate Polymers</i> , 2020, 228, 115408.	5.1	19
41	¹³ C NMR spectral simulation and shift prediction. <i>TrAC - Trends in Analytical Chemistry</i> , 1994, 13, 95-104.	5.8	16
42	Effects of pH and storage time on the adhesive and rheological properties of cottonseed meal-based products. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	16
43	Surface modified cellulose nanocrystals for tailoring interfacial miscibility and microphase separation of polymer nanocomposites. <i>Cellulose</i> , 2019, 26, 4301-4312.	2.4	16
44	Performance of an amperometric immunosensor assembled on carboxymethylated cashew gum for Salmonella detection. <i>Microchemical Journal</i> , 2021, 167, 106268.	2.3	16
45	Stereoregularity of Poly(lactic acid) and their Model Compounds as studied by NMR and Quantum Chemical Calculations. <i>Macromolecules</i> , 2011, 44, 9247-9253.	2.2	15
46	Composition and Functional Properties of Saline-Soluble Protein Concentrates Prepared from Four Common Dry Beans (<i>Phaseolus vulgaris</i> L.). <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2018, 95, 1001-1012.	0.8	15
47	Electrosprayed cashew gum microparticles for the encapsulation of highly sensitive bioactive materials. <i>Carbohydrate Polymers</i> , 2021, 264, 118060.	5.1	15
48	Studies of solution dynamics of poly(N-vinyl pyrrolidone) and its iodine adduct. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1985, 23, 461-470.	1.0	14
49	Stereochemistry of vinyl polymers and NMR characterization. <i>Journal of Applied Polymer Science</i> , 1988, 36, 229-241.	1.3	14
50	NMR analysis and chemical shift calculations of poly(lactic acid) dimer model compounds with different tacticities. <i>Polymer Journal</i> , 2012, 44, 838-844.	1.3	14
51	Wood adhesive properties of cottonseed protein with denaturant additives. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 2657-2666.	1.4	14
52	Surface Characterization of Cottonseed Meal Products by SEM, SEM-EDS, XRD and XPS Analysis. <i>Journal of Materials Science Research</i> , 2017, 7, 28.	0.1	14
53	Optimization and practical application of cottonseed meal-based wood adhesive formulations for small wood item bonding. <i>International Journal of Adhesion and Adhesives</i> , 2019, 95, 102448.	1.4	14
54	Green Polymer Chemistry: Biocatalysis and Biomaterials(). <i>ACS Symposium Series</i> , 2010, , 1-14.	0.5	13

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55	Adhesive properties of water-washed cottonseed meal on four types of wood. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 2109-2119.	1.4	13
56	Optimization and characterization of a biosensor assembly for detection of <i>Salmonella Typhimurium</i> . <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1321-1330.	1.2	13
57	Preparation and Characterization of Carboxymethyl Cellulose Films with Embedded Essential Oils. <i>Journal of Materials Science Research</i> , 2018, 7, 16.	0.1	13
58	Use of cottonseed protein as a strength additive for nonwoven cotton. <i>Textile Research Journal</i> , 2019, 89, 1725-1733.	1.1	13
59	Preparation and evaluation of oxygen scavenging nanocomposite films incorporating cellulose nanocrystals and Pd nanoparticles in poly(ethylene-co-vinyl alcohol). <i>Cellulose</i> , 2019, 26, 7237-7251.	2.4	13
60	Evaluation of polyblends of cottonseed protein and polycaprolactone plasticized by cottonseed oil. <i>International Journal of Polymer Analysis and Characterization</i> , 2019, 24, 389-398.	0.9	13
61	Evaluation of the Properties of Cellulose Ester Films that Incorporate Essential Oils. <i>International Journal of Polymer Science</i> , 2020, 2020, 1-8.	1.2	13
62	Synthesis and Characterization of Hydrophobically Modified Xylans. <i>Polymers</i> , 2021, 13, 291.	2.0	13
63	NMR analysis and tacticity determination of poly(lactic acid) in C5D5N. <i>Polymer Testing</i> , 2014, 38, 35-39.	2.3	12
64	Evaluation of wood bonding performance of water-washed cottonseed meal-based adhesives with high solid contents and low press temperatures. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 2620-2629.	1.4	12
65	Evaluation of adhesion properties of blends of cottonseed protein and anionic water-soluble polymers. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 66-78.	1.4	12
66	Green Polymer Chemistry: A Brief Review. <i>ACS Symposium Series</i> , 2013, , 1-12.	0.5	11
67	Characterization of cottonseed protein isolate as a paper additive. <i>International Journal of Polymer Analysis and Characterization</i> , 2017, 22, 699-708.	0.9	11
68	Preparation and evaluation of composites containing polypropylene and cotton gin trash. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49151.	1.3	11
69	Modified Triglyceride Oil Through Reactions with Phenyltriazolinedione. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2014, 91, 125-131.	0.8	10
70	Evaluation of Composite Films Containing Poly(vinyl alcohol) and Cotton Gin Trash. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1998-2007.	2.4	10
71	Comparison of the wood bonding performance of water- and alkali-soluble cottonseed protein fractions. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1500-1517.	1.4	10
72	Microwave-Assisted Synthesis and Characterization of Polyurethanes from TDI and Starch. <i>International Journal of Polymer Analysis and Characterization</i> , 2015, 20, 1-9.	0.9	9

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73	Polymerization of epoxidized triglycerides with fluorosulfonic acid. International Journal of Polymer Analysis and Characterization, 2016, 21, 85-93.	0.9	9
74	Novel polyurethanes from xylan and TDI: Preparation and characterization. International Journal of Polymer Analysis and Characterization, 2017, 22, 35-42.	0.9	9
75	Microwave-Assisted Synthesis of Sucrose Polyurethanes and Their Semi-interpenetrating Polymer Networks with Polycaprolactone and Soybean Oil. Industrial & Engineering Chemistry Research, 2018, 57, 3227-3234.	1.8	9
76	Surface and Thermal Characterization of Cotton Fibers of Phenotypes Differing in Fiber Length. Polymers, 2021, 13, 994.	2.0	9
77	Effects of Particle Size on the Morphology and Water- and Thermo-Resistance of Washed Cottonseed Meal-Based Wood Adhesives. Polymers, 2017, 9, 675.	2.0	8
78	Improving adhesion performance of cottonseed protein by the synergy of phosphoric acid and water soluble calcium salts. International Journal of Adhesion and Adhesives, 2021, 108, 102867.	1.4	8
79	¹³ C NMR sequence determination and modelling of polypropylene oils. Macromolecular Symposia, 1994, 86, 77-102.	0.4	7
80	Preparation and Characterization of Xylan Derivatives and Their Blends. Journal of Polymers and the Environment, 2018, 26, 4114-4123.	2.4	7
81	Effect of Nanocellulose on the Properties of Cottonseed Protein Isolate as a Paper Strength Agent. Materials, 2021, 14, 4128.	1.3	7
82	Statistical Models and NMR Analysis of Polymer Microstructure. ACS Symposium Series, 2011, , 371-382.	0.5	6
83	Metal chloride-catalyzed acetylation of starch: Synthesis and characterization. International Journal of Polymer Analysis and Characterization, 2018, 23, 577-589.	0.9	6
84	Preparation of sorbitol-based polyurethanes and their semiinterpenetrating polymer networks. Journal of Applied Polymer Science, 2019, 136, 47602.	1.3	6
85	Use of Cotton Gin Trash and Compatibilizers in Polyethylene Composites. ACS Symposium Series, 2013, , 423-431.	0.5	5
86	Direct Polymerization of Vernonia Oil through Cationic Means. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 2111-2116.	0.8	5
87	Preparation of Hydrophobically Modified Cashew Gum Through Reaction with Alkyl Ketene Dimer. ACS Symposium Series, 2018, , 137-146.	0.5	5
88	Preparation of Xylan Esters with the Use of Selected Lewis Acids. ACS Symposium Series, 2020, , 33-42.	0.5	5
89	Mechanical, Thermal, and Moisture Properties of Plastics with Bean as Filler. Journal of Biobased Materials and Bioenergy, 2012, 6, 59-68.	0.1	4
90	Green Polymer Chemistry: Pipelines Toward New Products and Processes. ACS Symposium Series, 2018, , 1-11.	0.5	4

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91	Preparation and evaluation of catfish protein as a wood adhesive. <i>International Journal of Polymer Analysis and Characterization</i> , 2021, 26, 60-67.	0.9	4
92	<scp>3D</scp>Printed wood</scp>polylactic acid</scp>thermoplastic</scp> starch composites: Performance features in relation to biodegradation treatment. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50914.	1.3	4
93	Modeling and Thermodynamic Analysis of the Water Sorption Isotherms of Cottonseed Products. <i>Foundations</i> , 2021, 1, 32-44.	0.4	4
94	Sustainability and Green Polymer Chemistry—An Overview. <i>ACS Symposium Series</i> , 2020, , 1-11.	0.5	4
95	Green Polymer Chemistry: Some Recent Developments and Examples. <i>ACS Symposium Series</i> , 2015, , 1-13.	0.5	3
96	Synthesis and Characterization of an Iron-Containing Fatty Acid-Based Ionomer. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-9.	1.2	3
97	Adhesive performance of cottonseed protein modified by catechol-containing compounds. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 1781-1793.	1.4	3
98	Methods of Microencapsulation of Vegetable Oil: Principles, Stability and Applications - A Minireview. <i>Food Technology and Biotechnology</i> , 2022, 60, 308-320.	0.9	3
99	Novel Polymeric Products Derived from Biodiesel. <i>ACS Symposium Series</i> , 2017, , 207-220.	0.5	2
100	Application of Lignin-Containing Cellulose Nanofibers and Cottonseed Protein Isolate for Improved Performance of Paper. <i>Polymers</i> , 2022, 14, 2154.	2.0	2
101	Synthesis and analysis of lactose polyurethanes and their semi-interpenetrating polymer networks. <i>International Journal of Polymer Analysis and Characterization</i> , 2022, 27, 266-276.	0.9	1
102	Applications of Common Beans in Food and Biobased Materials. <i>ACS Symposium Series</i> , 2013, , 331-341.	0.5	0
103	Partners for Progress and Prosperity in the Global Chemistry Enterprise. <i>ACS Symposium Series</i> , 2014, , 3-13.	0.5	0
104	A Primer on Polymer Nomenclature: Structure-Based, Sourced-Based, and Trade Names. <i>Journal of Chemical Education</i> , 2017, 94, 1794-1797.	1.1	0
105	Changing the Landscape: An Introduction to the Agricultural and Food Chemistry Technical Program at the 258th American Chemical Society National Meeting in San Diego. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 12769-12772.	2.4	0
106	Effect of acid catalyst on pyroconversion of breadfruit (<i>Artocarpus altilis</i>) starch: Physicochemical and structural properties. <i>Journal of Food Processing and Preservation</i> , 0, , .	0.9	0