

Huai N Cheng

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

1,903
citations

25
h-index

39
g-index

107
ext. papers

2,229
ext. citations

4.2
avg, IF

5.25
L-index

#	Paper	IF	Citations
104	Solution NMR Spectroscopy of Food Polysaccharides. <i>Polymer Reviews</i> , 2012 , 52, 81-114	14	174
103	Effects of ball milling on the structure of cotton cellulose. <i>Cellulose</i> , 2019 , 26, 305-328	5.5	162
102	Synthesis of cellulose acetate from cotton byproducts. <i>Carbohydrate Polymers</i> , 2010 , 80, 449-452	10.3	65
101	Investigation of modified cottonseed protein adhesives for wood composites. <i>Industrial Crops and Products</i> , 2013 , 46, 399-403	5.9	64
100	Soy and cottonseed protein blends as wood adhesives. <i>Industrial Crops and Products</i> , 2016 , 85, 324-330	5.9	61
99	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	5.9	58
98	Preparation and evaluation of hemicellulose films and their blends. <i>Food Hydrocolloids</i> , 2017 , 70, 181-190	10.6	47
97	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	1.8	46
96	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	10.3	45
95	Evaluation of cotton byproducts as fillers for poly(lactic acid) and low density polyethylene. <i>Industrial Crops and Products</i> , 2012 , 36, 127-134	5.9	44
94	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	3.4	41
93	Soybean oil as a renewable feedstock for nitrogen-containing derivatives. <i>Energy and Environmental Science</i> , 2008 , 1, 639	35.4	41
92	Assessment and application of phosphorus/calcium-cottonseed protein adhesive for plywood production. <i>Journal of Cleaner Production</i> , 2019 , 229, 454-462	10.3	38
91	Enzyme-Catalyzed Modifications of Polysaccharides and Poly(ethylene glycol). <i>Polymers</i> , 2012 , 4, 1311-1330	14.3	38
90	Physical and mechanical testing of essential oil-embedded cellulose ester films. <i>Polymer Testing</i> , 2016 , 49, 156-161	4.5	37
89	Use of Nutshells as Fillers in Polymer Composites. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 305-314	4.5	37
88	Complexation and blending of starch, poly(acrylic acid), and poly(N-vinyl pyrrolidone). <i>Carbohydrate Polymers</i> , 2006 , 65, 397-403	10.3	37

87	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	3.4	36
86	¹³ C-NMR sequence determination for multicomponent polymer mixtures. <i>Journal of Applied Polymer Science</i> , 1988 , 35, 1639-1650	2.9	30
85	A Rapid and Specific Biosensor for Salmonella Typhimurium Detection in Milk. <i>Food and Bioprocess Technology</i> , 2018 , 11, 748-756	5.1	29
84	Blending cottonseed meal products with different protein contents for cost-effective wood adhesive performances. <i>Industrial Crops and Products</i> , 2018 , 126, 31-37	5.9	28
83	Cottonseed protein-based wood adhesive reinforced with nanocellulose. <i>Journal of Adhesion Science and Technology</i> , 2019 , 33, 1357-1368	2	27
82	Effects of Vigorous Blending on Yield and Quality of Protein Isolates Extracted From Cottonseed and Soy Flours. <i>Modern Applied Science</i> , 2013 , 7,	1.3	26
81	Integrated approach for ¹³ C nuclear magnetic resonance shift prediction, spectral simulation and library search. <i>Analytica Chimica Acta</i> , 1994 , 285, 223-235	6.6	26
80	Electrochemical immunosensors for Salmonella detection in food. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 5301-12	5.7	26
79	Transition-state geometry and stereochemistry of the ene reaction between olefins and maleic anhydride. <i>Journal of Organic Chemistry</i> , 1986 , 51, 5093-5100	4.2	24
78	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	3.4	23
77	Conversion of cotton byproducts to mixed cellulose esters. <i>Carbohydrate Polymers</i> , 2011 , 86, 1130-1136	10.3	23
76	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	6.6	23
75	Room-temperature self-curing ene reactions involving soybean oil. <i>Green Chemistry</i> , 2008 , 10, 290	10	22
74	Microwave-assisted synthesis of cyclodextrin polyurethanes. <i>Carbohydrate Polymers</i> , 2015 , 133, 74-9	10.3	21
73	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	5.4	21
72	Chemical modification of cotton-based natural materials: Products from carboxymethylation. <i>Carbohydrate Polymers</i> , 2011 , 84, 1004-1010	10.3	20
71	Comparison of the Adhesive Performances of Soy Meal, Water Washed Meal Fractions, and Protein Isolates. <i>Modern Applied Science</i> , 2016 , 10, 112	1.3	16
70	¹³ C NMR spectral simulation and shift prediction. <i>TrAC - Trends in Analytical Chemistry</i> , 1994 , 13, 95-104	14.6	15

69	Physical Properties and Fatty Acid Profiles of Oils from Black, Kidney, Great Northern, and Pinto Beans. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2011 , 88, 193-200	1.8	13
68	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		13
67	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	7.9	13
66	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,	2.9	13
65	Stereoregularity of Poly(lactic acid) and their Model Compounds as studied by NMR and Quantum Chemical Calculations. <i>Macromolecules</i> , 2011 , 44, 9247-9253	5.5	12
64	Green Polymer Chemistry: Biocatalysis and Biomaterials(). <i>ACS Symposium Series</i> , 2010 , 1-14	0.4	12
63	A Review of Cottonseed Protein Chemistry and Non-Food Applications. <i>Sustainable Chemistry</i> , 2020 , 1, 256-274	3.6	12
62	Wood adhesive properties of cottonseed protein with denaturant additives. <i>Journal of Adhesion Science and Technology</i> , 2017 , 31, 2657-2666	2	11
61	Optimization and characterization of a biosensor assembly for detection of Salmonella Typhimurium. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 1321-1330	2.6	11
60	Adhesive properties of water-washed cottonseed meal on four types of wood. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 2109-2119	2	11
59	NMR analysis and tacticity determination of poly(lactic acid) in C5D5N. <i>Polymer Testing</i> , 2014 , 38, 35-39	4.5	11
58	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	2	11
57	Preparation and characterization of carboxymethyl cashew gum grafted with immobilized antibody for potential biosensor application. <i>Carbohydrate Polymers</i> , 2020 , 228, 115408	10.3	11
56	Surface modified cellulose nanocrystals for tailoring interfacial miscibility and microphase separation of polymer nanocomposites. <i>Cellulose</i> , 2019 , 26, 4301-4312	5.5	10
55	Surface Characterization of Cottonseed Meal Products by SEM, SEM-EDS, XRD and XPS Analysis. <i>Journal of Materials Science Research</i> , 2017 , 7, 28	1	10
54	Use of cottonseed protein as a strength additive for nonwoven cotton. <i>Textile Reseach Journal</i> , 2019 , 89, 1725-1733	1.7	10
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	3.4	10
52	Green Polymer Chemistry: A Brief Review. <i>ACS Symposium Series</i> , 2013 , 1-12	0.4	10

51	Characterization of cottonseed protein isolate as a paper additive. <i>International Journal of Polymer Analysis and Characterization</i> , 2017 , 22, 699-708	1.7	10
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	2.7	10
49	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	1.7	9
48	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	1.8	9
47	Microwave-Assisted Synthesis and Characterization of Polyurethanes from TDI and Starch. <i>International Journal of Polymer Analysis and Characterization</i> , 2015 , 20, 1-9	1.7	9
46	Modified Triglyceride Oil Through Reactions with Phenyltriazolinedione. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2014 , 91, 125-131	1.8	9
45	Stereochemistry of vinyl polymers and NMR characterization. <i>Journal of Applied Polymer Science</i> , 1988 , 36, 229-241	2.9	9
44	NMR Analysis of Poly(Lactic Acid) via Statistical Models. <i>Polymers</i> , 2019 , 11,	4.5	8
43	Evaluation of Composite Films Containing Poly(vinyl alcohol) and Cotton Gin Trash. <i>Journal of Polymers and the Environment</i> , 2020 , 28, 1998-2007	4.5	8
42	Microwave-Assisted Synthesis of Sucrose Polyurethanes and Their Semi-interpenetrating Polymer Networks with Polycaprolactone and Soybean Oil. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3227-3234	3.9	8
41	Preparation and Characterization of Carboxymethyl Cellulose Films with Embedded Essential Oils. <i>Journal of Materials Science Research</i> , 2018 , 7, 16	1	8
40	Novel polyurethanes from xylan and TDI: Preparation and characterization. <i>International Journal of Polymer Analysis and Characterization</i> , 2017 , 22, 35-42	1.7	8
39	Hydrophobic Modification of Cashew Gum with Alkenyl Succinic Anhydride. <i>Polymers</i> , 2020 , 12,	4.5	7
38	Preparation and evaluation of composites containing polypropylene and cotton gin trash. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49151	2.9	7
37	Effects of Particle Size on the Morphology and Water- and Thermo-Resistance of Washed Cottonseed Meal-Based Wood Adhesives. <i>Polymers</i> , 2017 , 9,	4.5	7
36	¹³ C NMR sequence determination and modelling of polypropylene oils. <i>Macromolecular Symposia</i> , 1994 , 86, 77-102	0.8	7
35	Polymerization of epoxidized triglycerides with fluorosulfonic acid. <i>International Journal of Polymer Analysis and Characterization</i> , 2016 , 21, 85-93	1.7	6
34	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	5.5	6

33	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	2	6
32	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	2	5
31	Statistical Models and NMR Analysis of Polymer Microstructure. <i>ACS Symposium Series</i> , 2011 , 371-382	0.4	5
30	Synthesis and Characterization of Hydrophobically Modified Xylans. <i>Polymers</i> , 2021 , 13,	4.5	5
29	Evaluation of the Properties of Cellulose Ester Films that Incorporate Essential Oils. <i>International Journal of Polymer Science</i> , 2020 , 2020, 1-8	2.4	4
28	Preparation and Characterization of Xylan Derivatives and Their Blends. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 4114-4123	4.5	4
27	Use of Cotton Gin Trash and Compatibilizers in Polyethylene Composites. <i>ACS Symposium Series</i> , 2013 , 423-431	0.4	4
26	Mechanical, Thermal, and Moisture Properties of Plastics with Bean as Filler. <i>Journal of Biobased Materials and Bioenergy</i> , 2012 , 6, 59-68	1.4	4
25	Performance of an amperometric immunosensor assembled on carboxymethylated cashew gum for Salmonella detection. <i>Microchemical Journal</i> , 2021 , 167, 106268	4.8	4
24	Synthesis and Characterization of an Iron-Containing Fatty Acid-Based Ionomer. <i>International Journal of Polymer Science</i> , 2019 , 2019, 1-9	2.4	3
23	Preparation of sorbitol-based polyurethanes and their semiinterpenetrating polymer networks. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47602	2.9	3
22	Green Polymer Chemistry: Some Recent Developments and Examples. <i>ACS Symposium Series</i> , 2015 , 1-13	0.4	3
21	Direct Polymerization of Vernonia Oil through Cationic Means. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 2014 , 91, 2111-2116	1.8	3
20	Electrosprayed cashew gum microparticles for the encapsulation of highly sensitive bioactive materials. <i>Carbohydrate Polymers</i> , 2021 , 264, 118060	10.3	3
19	Preparation of Hydrophobically Modified Cashew Gum Through Reaction with Alkyl Ketene Dimer. <i>ACS Symposium Series</i> , 2018 , 137-146	0.4	3
18	Metal chloride-catalyzed acetylation of starch: Synthesis and characterization. <i>International Journal of Polymer Analysis and Characterization</i> , 2018 , 23, 577-589	1.7	3
17	Effect of Nanocellulose on the Properties of Cottonseed Protein Isolate as a Paper Strength Agent. <i>Materials</i> , 2021 , 14,	3.5	3
16	Improving adhesion performance of cottonseed protein by the synergy of phosphoric acid and water soluble calcium salts. <i>International Journal of Adhesion and Adhesives</i> , 2021 , 108, 102867	3.4	3

15	Novel Polymeric Products Derived from Biodiesel. <i>ACS Symposium Series</i> , 2017 , 207-220	0.4	2
14	Preparation of Xylan Esters with the Use of Selected Lewis Acids. <i>ACS Symposium Series</i> , 2020 , 33-42	0.4	2
13	Sustainability and Green Polymer Chemistry An Overview. <i>ACS Symposium Series</i> , 2020 , 1-11	0.4	2
12	Surface and Thermal Characterization of Cotton Fibers of Phenotypes Differing in Fiber Length. <i>Polymers</i> , 2021 , 13,	4.5	2
11	Preparation and evaluation of catfish protein as a wood adhesive. <i>International Journal of Polymer Analysis and Characterization</i> , 2021 , 26, 60-67	1.7	2
10	Green Polymer Chemistry: Pipelines Toward New Products and Processes. <i>ACS Symposium Series</i> , 2018 , 1-11	0.4	2
9	Modeling and Thermodynamic Analysis of the Water Sorption Isotherms of Cottonseed Products. <i>Foundations</i> , 2021 , 1, 32-44		2
8	3D-printed wood-poly(lactic acid)-thermoplastic starch composites: Performance features in relation to biodegradation treatment. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50914	2.9	1
7	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	1.7	0
6	Partners for Progress and Prosperity in the Global Chemistry Enterprise. <i>ACS Symposium Series</i> , 2014 , 3-13	0.4	
5	A Primer on Polymer Nomenclature: Structure-Based, Sourced-Based, and Trade Names. <i>Journal of Chemical Education</i> , 2017 , 94, 1794-1797	2.4	
4	Applications of Common Beans in Food and Biobased Materials. <i>ACS Symposium Series</i> , 2013 , 331-341	0.4	
3	Adhesive performance of cottonseed protein modified by catechol-containing compounds. <i>Journal of Adhesion Science and Technology</i> , 1-13	2	
2	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	5.7	
1	Application of Lignin-Containing Cellulose Nanofibers and Cottonseed Protein Isolate for Improved Performance of Paper. <i>Polymers</i> , 2022 , 14, 2154	4.5	