Weidong Gu

List of Publications by Year
in descending order

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202 papers	6,522 citations	57758 44 h-index	123424 61 g-index
204 all docs	204 docs citations	204 times ranked	3397 citing authors

#	Article	IF	Citations
1	A nacre-inspired strong and flame retardant laminated veneer lumber bonded with magnesium oxychloride cement. Wood Material Science and Engineering, 2023, 18, 254-261.	2.3	2
2	Preparation and properties of soybean protein adhesive modified by chitosan/tannic-silver nanocomposite. Wood Material Science and Engineering, 2023, 18, 852-859.	2.3	3
3	Surface colour and chemical changes of furfurylated poplar wood and bamboo due to artificial weathering. Wood Material Science and Engineering, 2022, 17, 168-175.	2.3	13
4	Highly dispersed manganese dioxide nanoparticles anchored on diatomite surface by solâ€“gel method and its performance on soybean mealâ€based adhesive. Journal of Applied Polymer Science, 2022, 139, 51719.	2.6	7
5	High strength and flame retardant soybean polysaccharide-based wood adhesive produced by borate chemistry and crosslinking strategy. European Polymer Journal, 2022, 164, 110973.	5.4	21
6	Acacia mangium tannin functionalized graphene nanoplatelets produced via ball-milling for sustainable soy protein-based film. Industrial Crops and Products, 2022, 177, 114478.	5.2	10
7	Development of a multifunctional nanocomposite film with record-high ultralow temperature toughness and unprecedented fatigue-resistance. Chemical Engineering Journal, 2022, 432, 134408.	12.7	13
8	Nacreâ€inspired construction of softâ€“hard double network structure to prepare strong, tough, and waterâ€resistant soy protein adhesive. Journal of Applied Polymer Science, 2022, 139, .	2.6	9
9	A hair fiber inspired bio-based adhesive with high bonding strength and mildew tolerance. Chemical Engineering Journal, 2022, 434, 134632.	12.7	35
10	Recyclable, Selfâ€Healing Solid Polymer Electrolytes by Soy Proteinâ€Based Dynamic Network. Advanced Science, 2022, 9, e2103623.	11.2	37
11	A biosensor material with robust mechanical properties, fatigue-resistance, biocompatibility, biodegradability, and anti-freezing capabilities. Journal of Materials Chemistry A, 2022, 10, 8491-8500.	10.3	7
12	Evaluation of natural weathering and thermal degradation behavior of furfurylated bamboo strips at different weight percent gain. European Journal of Wood and Wood Products, 2022, 80, 289-299.	2.9	4
13	High-performance adhesives formulated from soy protein isolate and bio-based material hybrid for plywood production. Journal of Cleaner Production, 2022, 353, 131587.	9.3	19
14	Preparation of a high bonding performance soybean protein-based adhesive with low crosslinker addition via microwave chemistry. International Journal of Biological Macromolecules, 2022, 208, 45-55.	7.5	33
15	An ultrastrong bioinspired soy protein isolate-based nanocomposite with graphene oxide intercalation. Composites Part B: Engineering, 2022, 236, 109805.	12.0	7
16	Preparation of a strong, mildew-resistant, and flame-retardant biomimetic multifunctional soy protein adhesive via the construction of an organic-inorganic hybrid multiple-bonding structure. Chemical Engineering Journal, 2022, 437, 135437.	12.7	45
17	A water-resistant and mildewproof soy protein adhesive enhanced by epoxidized xylitol. Industrial Crops and Products, 2022, 180, 114794.	5.2	28
18	Spider silk-inspired high-performance soybean meal-based adhesive reinforced by greenly produced chitosan-functionalized boron nitride nanosheets. Chemical Engineering Journal, 2022, 438, 135442.	12.7	44

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19	Construction of thorough cross-linked networks in soybean meal adhesive system by biomimetic boronic acid-anchored cellulose nanofibril for multifunctionality of high-performance, mildew resistance, anti-bacterial, and flame resistance. Industrial Crops and Products, 2022, 180, 114791.	5.2	18
20	A soy protein-based film by mixed covalent cross-linking and flexibilizing networks. Industrial Crops and Products, 2022, 183, 114952.	5.2	23
21	Constructing SiO2 nanohybrid to develop a strong soy protein adhesive with excellent flame-retardant and coating ability. Chemical Engineering Journal, 2022, 446, 137065.	12.7	41
22	Biomimetic lignin-protein adhesive with dynamic covalent/hydrogen hybrid networks enables high bonding performance and wood-based panel recycling. International Journal of Biological Macromolecules, 2022, 214, 230-240.	7.5	27
23	Preparation of a strong soy protein adhesive with mildew proof, flame-retardant, and electromagnetic shielding properties via constructing nanophase-reinforced organicâ€“inorganic hybrid structure. Chemical Engineering Journal, 2022, 447, 137536.	12.7	31
24	Preparation of a strong and multiple-function soybean flour adhesive via the construction of tannin microspheres with a coreâ€“shell structure. Composites Part B: Engineering, 2022, 242, 110114.	12.0	21
25	Performance of soybean protein adhesive cross-linked by lignin and cuprum. Journal of Cleaner Production, 2022, 366, 132906.	9.3	28
26	Self-healable and biodegradable soy protein-based protective functional film with low cytotoxicity and high mechanical strength. Chemical Engineering Journal, 2021, 404, 126505.	12.7	52
27	Sandcastle worm-inspired phytic acid and magnesium oxychloride cement copolymerization for performance enhancement. Journal of Hazardous Materials, 2021, 404, 123992.	12.4	20
28	Improving Bond Performance and Reducing Cross-linker Dosage for Soy Flour Adhesives Inspired by Spider Silk. ACS Sustainable Chemistry and Engineering, 2021, 9, 168-179.	6.7	36
29	Biomimetic soy proteinâ€based exteriorâ€use films with excellent UV â€blocking performance from catechol derivative Acacia mangium tannin. Journal of Applied Polymer Science, 2021, 138, 50185.	2.6	4
30	A tough, adhesive, self-healable, and antibacterial plant-inspired hydrogel based on pyrogallolâ€“borax dynamic cross-linking. Journal of Materials Chemistry B, 2021, 9, 4230-4240.	5.8	41
31	A green bio-inspired chelating design for improving the electrical conductivity of flexible biopolymer-based composites. Journal of Cleaner Production, 2021, 285, 125504.	9.3	18
32	Soy meal adhesive with high strength and water resistance via carboxymethylated wood fiber-induced crosslinking. Cellulose, 2021, 28, 3569-3584.	4.9	32
33	Enhancement of Removal of VOCs and Odors from Wood by Microwave-Activated Persulfate. ACS Omega, 2021, 6, 5945-5952.	3.5	7
34	Full Bioâ€Based Soy Protein Isolate Film Enhanced by Chicken Feather Keratin. Macromolecular Materials and Engineering, 2021, 306, 2100004.	3.6	17
35	Effects of Maleic Anhydride Grafted Polypropylene on the Physical, Mechanical and Flammability Properties of Wood-flour/Polypropylene/Ammonium Polyphosphate Composites. Fibers and Polymers, 2021, 22, 1137-1144.	2.1	9
36	Lignin-Based Phenolic Foam Reinforced by Poplar Fiber and Isocyanate-Terminated Polyurethane Prepolymer. Polymers, 2021, 13, 1068.	4.5	13

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37	Nacre-Inspired Strong and Multifunctional Soy Protein-Based Nanocomposite Materials for Easy Heat-Dissipative Mobile Phone Shell. Nano Letters, 2021, 21, 3254-3261.	9.1	39
38	Musselâ€inspired polymer materials derived from nonphytogenic and phytogenic catechol derivatives and their applications. Polymer International, 2021, 70, 1209-1224.	3.1	12
39	Constructing a triple network structure to prepare strong, tough, and mildew resistant soy protein adhesive. Composites Part B: Engineering, 2021, 211, 108677.	12.0	70
40	Facile fabrication of tough, strong, and biodegradable soy protein-based composite films with excellent UV-blocking performance. Composites Part B: Engineering, 2021, 211, 108645.	12.0	41
41	Toward Utilization of Agricultural Wastes: Development of a Novel Keratin Reinforced Soybean Meal-based Adhesive. ACS Sustainable Chemistry and Engineering, 2021, 9, 7630-7637.	6.7	29
42	Spider Silk Inspired Robust and Photoluminescent Soybeanâ€Proteinâ€Based Materials. Macromolecular Materials and Engineering, 2021, 306, 2100155.	3.6	2
43	A simple design of mechanically robust, recyclable, and biodegradable composite films with high thermal stability and fluorescent properties. Polymer Testing, 2021, 97, 107162.	4.8	11
44	â€œGreenâ€•Flexible Electronics: Biodegradable and Mechanically Strong Soy Protein-Based Nanocomposite Films for Human Motion Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 37617-37627.	8.0	27
45	Facile strategy of mussel-inspired polymer as a high-performance dry/wet adhesive. Journal of Cleaner Production, 2021, 308, 127309.	9.3	20
46	Permâ€Inspired Highâ€Performance Soy Protein Isolate and Chicken Feather Keratinâ€Based Wood Adhesive without External Crosslinker. Macromolecular Materials and Engineering, 2021, 306, 2100498.	3.6	13
47	Novel Bionic Soy Protein-Based Adhesive with Excellent Prepressing Adhesion, Flame Retardancy, and Mildew Resistance. ACS Applied Materials & Interfaces, 2021, 13, 38732-38744.	8.0	55
48	Design, Development, and Outlook of Superwettability Membranes in Oil/Water Emulsions Separation. Advanced Materials Interfaces, 2021, 8, 2100799.	3.7	27
49	Plant Polyphenolâ€Inspired Crosslinking Strategy toward High Bonding Strength and Mildew Resistance for Soy Protein Adhesives. Macromolecular Materials and Engineering, 2021, 306, 2100543.	3.6	35
50	Facile design of tough, strong, and UV-shielding soy protein-based composite films. Industrial Crops and Products, 2021, 166, 113474.	5.2	13
51	Wood-inspired nanocellulose aerogel adsorbents with excellent selective pollutants capture, superfast adsorption, and easy regeneration. Journal of Hazardous Materials, 2021, 415, 125612.	12.4	59
52	Bioinspired hyperbranched protein adhesive based on boronic acid-functionalized cellulose nanofibril and water-soluble polyester. Composites Part B: Engineering, 2021, 219, 108943.	12.0	32
53	Design, Development, and Outlook of Superwettability Membranes in Oil/Water Emulsions Separation (Adv. Mater. Interfaces 18/2021). Advanced Materials Interfaces, 2021, 8, 2170102.	3.7	0
54	Microwave induced construction of multiple networks for multifunctional soy protein-based materials. Progress in Organic Coatings, 2021, 158, 106390.	3.9	4

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55	Characterization of Microstructure, Chemical, and Physical Properties of Delignified and Densified Poplar Wood. Materials, 2021, 14, 5709.	2.9	17
56	Polyurethane as high-functionality crosslinker for constructing thermally driven dual-crosslinking plant protein adhesion system with integrated strength and ductility. Chemical Engineering Journal, 2021, 422, 130152.	12.7	48
57	Bioinspired interface design of multifunctional soy protein-based biomaterials with excellent mechanical strength and UV-blocking performance. Composites Part B: Engineering, 2021, 224, 109187.	12.0	27
58	A tough, anti-mildew and anti-counterfeiting soybean protein adhesive enhanced by gecko-inspired functional fiber and bio-based epoxide. Journal of Cleaner Production, 2021, 323, 129194.	9.3	17
59	High performance and multifunctional protein-based adhesive produced via phenol-amine chemistry and mineral reinforcement strategy inspired by arthropod cuticles. Chemical Engineering Journal, 2021, 426, 130852.	12.7	19
60	A high bonding performance and antibacterial soybean meal adhesive with Maillard reaction based cross-linked structure. Composites Part B: Engineering, 2021, 227, 109403.	12.0	35
61	Bioinspired and biomineralized magnesium oxychloride cement with enhanced compressive strength and water resistance. Journal of Hazardous Materials, 2020, 383, 121099.	12.4	53
62	A musselâ€inspired strategy toward antimicrobial and bacterially antiâ€adhesive soy protein surface. Polymer Composites, 2020, 41, 633-644.	4.6	13
63	Designing Biomimetic Microphaseâ€Separated Motifs to Construct Mechanically Robust Plant Protein Resin with Improved Waterâ€Resistant Performance. Macromolecular Materials and Engineering, 2020, 305, 1900462.	3.6	16
64	Musselâ€inspired bioâ€based waterâ€resistant soy adhesives with lowâ€cost dopamine analogueâ€modified silkworm silk Fiber. Journal of Applied Polymer Science, 2020, 137, 48785.	2.6	23
65	Thermal properties enhancement of poplar wood by substituting poly(furfuryl alcohol) for the matrix. Polymer Composites, 2020, 41, 1066-1073.	4.6	14
66	Paraffin Pickering Emulsion Stabilized with Nano-SiO2 Designed for Wood Impregnation. Forests, 2020, 11, 726.	2.1	5
67	Dual-Network Nanocross-linking Strategy to Improve Bulk Mechanical and Water-Resistant Adhesion Properties of Biobased Wood Adhesives. ACS Sustainable Chemistry and Engineering, 2020, 8, 16430-16440.	6.7	57
68	Bioinspired Organicâ€"Inorganic Hybrid Magnesium Oxychloride Cement via Chitosan and Tartaric Acid. ACS Sustainable Chemistry and Engineering, 2020, 8, 18841-18852.	6.7	13
69	Multiple Hydrogen Bonding Enables Strong, Tough, and Recyclable Soy Protein Films. ACS Sustainable Chemistry and Engineering, 2020, 8, 7680-7689.	6.7	28
70	Phytic acid-assisted fabrication for soybean meal/nanofiber composite adhesive via bioinspired chelation reinforcement strategy. Journal of Hazardous Materials, 2020, 399, 123064.	12.4	66
71	Polysaccharideâ€Based Adhesives: A Highâ€Performance Bioâ€Adhesive Using Hyperbranched Aminated Soybean Polysaccharide and Bioâ€Based Epoxide (Adv. Mater. Interfaces 9/2020). Advanced Materials Interfaces, 2020, 7, 2070048.	3.7	2
72	A Highâ€Performance Bioâ€Adhesive Using Hyperbranched Aminated Soybean Polysaccharide and Bioâ€Based Epoxide. Advanced Materials Interfaces, 2020, 7, 2000148.	3.7	24

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73	Improvement of interfacial interaction in impregnated wood via grafting methyl methacrylate onto wood cell walls. Holzforschung, 2020, 74, 967-977.	1.9	21
74	Preparation of water-resistant soybean meal-based adhesives with waste paper cellulose via NaOH/urea pretreatment and oxidation. Cellulose, 2020, 27, 4455-4470.	4.9	18
75	Environmentally Benign Wood Modifications: A Review. ACS Sustainable Chemistry and Engineering, 2020, 8, 3532-3540.	6.7	64
76	Borate chemistry inspired by cell walls converts soy protein into high-strength, antibacterial, flame-retardant adhesive. Green Chemistry, 2020, 22, 1319-1328.	9.0	118
77	Developing a stable high-performance soybean meal-based adhesive using a simple high-pressure homogenization technology. Journal of Cleaner Production, 2020, 256, 120336.	9.3	64
78	Development of conductive protein-based film reinforced by cellulose nanofibril template-directed hyperbranched copolymer. Carbohydrate Polymers, 2020, 237, 116141.	10.2	32
79	Soybean Meal-Based Wood Adhesive Enhanced by Phenol Hydroxymethylated Tannin Oligomer for Exterior Use. Polymers, 2020, 12, 758.	4.5	16
80	An Eco-Effective Soybean Meal-Based Adhesive Enhanced with Diglycidyl Resorcinol Ether. Polymers, 2020, 12, 954.	4.5	14
81	Biomimetic water-in-oil water/pMDI emulsion as an excellent ecofriendly adhesive for bonding wood-based composites. Journal of Hazardous Materials, 2020, 396, 122722.	12.4	40
82	A Tough and Mildew-Proof Soybean-Based Adhesive Inspired by Mussel and Algae. Polymers, 2020, 12, 756.	4.5	20
83	Resin-impregnated wooden anti-glare board and its outstanding exterior performance. BioResources, 2020, 16, 1561-1580.	1.0	0
84	A Tough, Water-Resistant, High Bond Strength Adhesive Derived from Soybean Meal and Flexible Hyper-Branched Aminated Starch. Polymers, 2019, 11, 1352.	4.5	12
85	Effects of Different Denaturants on Properties and Performance of Soy Protein-Based Adhesive. Polymers, 2019, 11, 1262.	4.5	37
86	EFFECT OF MODIFICATION WITH MELAMINEâ€"UREAâ€"FORMALDEHYDE RESIN ON THE PROPERTIES OF EUCALYPTUS AND POPLAR. Journal of Wood Chemistry and Technology, 2019, 39, 360-371.	1.7	24
87	Toughening and Enhancing Melamineâ€"Ureaâ€"Formaldehyde Resin Properties via in situ Polymerization of Dialdehyde Starch and Microphase Separation. Polymers, 2019, 11, 1167.	4.5	36
88	Bioinspired design by gecko structure and mussel chemistry for bio-based adhesive system through incorporating natural fibers. Journal of Cleaner Production, 2019, 236, 117591.	9.3	58
89	Thiol-branched graphene oxide and polydopamine-induced nanofibrillated cellulose to strengthen protein-based nanocomposite films. Cellulose, 2019, 26, 7223-7236.	4.9	18
90	High-Performance Soy Protein Isolate-Based Film Synergistically Enhanced by Waterborne Epoxy and Mussel-Inspired Poly(dopamine)-Decorated Silk Fiber. Polymers, 2019, 11, 1536.	4.5	9

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91	Synthesis of Amino-Functionalized Waste Wood Flour Adsorbent for High-Capacity Pb(II) Adsorption. ACS Omega, 2019, 4, 10475-10484.	3.5	19
92	Reinforcement of Bonding Strength and Water Resistance of Soybean Meal-Based Adhesive via Construction of an Interactive Network from Biomass Residues. Polymers, 2019, 11, 967.	4.5	8
93	Tough, strong, and biodegradable composite film with excellent UV barrier performance comprising soy protein isolate, hyperbranched polyester, and cardanol derivative. Green Chemistry, 2019, 21, 3651-3665.	9.0	71
94	Development of a High-Performance Adhesive with a Microphase, Separation Crosslinking Structure Using Wheat Flour and a Hydroxymethyl Melamine Prepolymer. Polymers, 2019, 11, 893.	4.5	11
95	Developing Eco-friendly High-Strength Soy Adhesives with Improved Ductility through Multiphase Coreâ€"Shell Hyperbranched Polysiloxane. ACS Sustainable Chemistry and Engineering, 2019, 7, 7784-7794.	6.7	79
96	Facile Fabrication of Self-Healable and Antibacterial Soy Protein-Based Films with High Mechanical Strength. ACS Applied Materials & Interfaces, 2019, 11, 16107-16116.	8.0	60
97	Depolymerization and characterization of Acacia mangium tannin for the preparation of mussel-inspired fast-curing tannin-based phenolic resins. Chemical Engineering Journal, 2019, 370, 420-431.	12.7	65
98	Effect of Hot-Pressing Temperature on Characteristics of Straw-Based Binderless Fiberboards with Pulping Effluent. Materials, 2019, 12, 922.	2.9	10
99	Effect of Musselâ€Inspired Poly(Dopamine)â€Functionalized Carbon Nanotubes/Graphene Nanohybrids on Interfacial Adhesion of Soy Proteinâ€Based Nanocomposites. Polymer Composites, 2019, 40, E1649-E1661.	4.6	4
100	Construction of bioinspired organic-inorganic hybrid composite by cellulose-induced interfacial gelation assisted with Pickering emulsion template. Chemical Engineering Journal, 2019, 359, 275-284.	12.7	65
101	Bio-based films with improved water resistance derived from soy protein isolate and stearic acid via bioconjugation. Journal of Cleaner Production, 2019, 214, 125-131.	9.3	69
102	Reduction of energy consumption of green plywood production by implementing high-efficiency thermal conductive bio-adhesive: Assessment from pilot-scaled application. Journal of Cleaner Production, 2019, 210, 1366-1375.	9.3	55
103	Mussel-inspired codepositing interconnected polypyrrole nanohybrids onto cellulose nanofiber networks for fabricating flexible conductive biobased composites. Carbohydrate Polymers, 2019, 205, 72-82.	10.2	22
104	Curing properties of highâ€Ortho phenolâ€formaldehyde resins with coâ€catalysis. Journal of Applied Polymer Science, 2019, 136, 47229.	2.6	7
105	Effects of resin open time and melamine addition on cold pre-pressing performance of a ureaâ€"formaldehyde resin. European Journal of Wood and Wood Products, 2018, 76, 1253-1261.	2.9	8
106	High bonding strength and boiling water resistance of soy proteinâ€based adhesives via organosiliconâ€"acrylate microemulsion and epoxy synergistic interfacial enhancement. Journal of Applied Polymer Science, 2018, 135, 46061.	2.6	27
107	Synthesis and Characterization of Pure Copper Nanostructures Using Wood Inherent Architecture as a Natural Template. Nanoscale Research Letters, 2018, 13, 119.	5.7	32
108	Improving dimensional stability and durability of wood polymer composites by grafting polystyrene onto wood cell walls. Polymer Composites, 2018, 39, 119-125.	4.6	25

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109	Crosslinked chitosanâ€based biocomposite films modified with soy protein isolate. Polymer Composites, 2018, 39, 942-949.	4.6	15
110	Effect of coupling agent modified intumescent flame retardant on the mechanical properties, thermal degradation behavior, and flame retardancy of woodâ€flour/polypropylene composites. Polymer Composites, 2018, 39, 826-834.	4.6	17
111	Highâ€performance imitation precious wood from lowâ€cost poplar wood via highâ€rate permeability of phenolic resins. Polymer Composites, 2018, 39, 2431-2440.	4.6	12
112	Structural Properties and Copolycondensation Mechanism of Valonea Tannin-Modified Phenol-formaldehyde Resin. Journal of Polymers and the Environment, 2018, 26, 1297-1309.	5.0	28
113	Multiple crosslinking bionanocomposites reinforced with musselâ€inspired poly(dopamine) surface modified nanoclay: Construction, properties, and characterization. Polymer Composites, 2018, 39, E90.	4.6	3
114	Effects of Compounded Curing Agents on Properties and Performance of Urea Formaldehyde Resin. Journal of Polymers and the Environment, 2018, 26, 158-165.	5.0	18
115	A Novel Eco-friendly Blood Meal-based Bio-adhesive: Preparation and Performance. Journal of Polymers and the Environment, 2018, 26, 607-615.	5.0	24
116	Polyphenol-induced cellulose nanofibrils anchored graphene oxide as nanohybrids for strong yet tough soy protein nanocomposites. Carbohydrate Polymers, 2018, 180, 354-364.	10.2	53
117	A High-Performance and Low-Cost Soy Flour Adhesive with a Hydroxymethyl Melamine Prepolymer. Polymers, 2018, 10, 909.	4.5	17
118	Improve the Performance of Soy Protein-Based Adhesives by a Polyurethane Elastomer. Polymers, 2018, 10, 1016.	4.5	25
119	The Effect of Enzymolysis on Performance of Soy Protein-Based Adhesive. Molecules, 2018, 23, 2752.	3.8	28
120	Dopamine-Mediated Pre-Crosslinked Cellulose/Polyurethane Block Elastomer for the Preparation of Robust Biocomposites. ACS Omega, 2018, 3, 10657-10667.	3.5	11
121	Nature-Inspired Green Procedure for Improving Performance of Protein-Based Nanocomposites via Introduction of Nanofibrillated Cellulose-Stablized Graphene/Carbon Nanotubes Hybrid. Polymers, 2018, 10, 270.	4.5	26
122	Reinforcement of interfacial and bonding strength of soybean meal-based adhesive via kenaf fiberâ€"CaCO3 anchored N-cyclohexyl-2-benzothiazole sulfenamide. Composites Part B: Engineering, 2018, 155, 204-211.	12.0	35
123	Preparation and characterization of a soy protein-based high-performance adhesive with a hyperbranched cross-linked structure. Chemical Engineering Journal, 2018, 354, 1032-1041.	12.7	159
124	Surface microencapsulated ammonium polyphosphate with betaâ€cyclodextrin and its application in woodâ€flour/polypropylene composites. Polymer Composites, 2017, 38, 2312-2320.	4.6	25
125	Determination of formaldehyde and TVOC emission behavior from interior use plywood using various post heat treatment processes. Journal of Applied Polymer Science, 2017, 134, .	2.6	6
126	A high-performance bio-adhesive derived from soy protein isolate and condensed tannins. RSC Advances, 2017, 7, 21226-21233.	3.6	51

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127	Functionalization of halloysite nanotubes (HNTs) via mussel-inspired surface modification and silane grafting for HNTs/soy protein isolate nanocomposite film preparation. RSC Advances, 2017, 7, 24140-24148.	3.6	78
128	A novel water-based process produces eco-friendly bio-adhesive made from green cross-linked soybean soluble polysaccharide and soy protein. Carbohydrate Polymers, 2017, 169, 417-425.	10.2	109
129	Evaluation of optical properties and chemical structure changes in enzymatic hydrolysis lignin during heat treatment. RSC Advances, 2017, 7, 20760-20765.	3.6	16
130	Development of Eco-friendly Soy Protein Isolate Films with High Mechanical Properties through HNTs, PVA, and PTGE Synergism Effect. Scientific Reports, 2017, 7, 44289.	3.3	34
131	Fabrication of homogeneous and enhanced soybean protein isolate-based composite films via incorporating TEMPO oxidized nanofibrillated cellulose stablized nano-ZnO hybrid. Cellulose, 2017, 24, 4807-4819.	4.9	16
132	The synergy between natural polyphenol-inspired catechol moieties and plant protein-derived bio-adhesive enhances the wet bonding strength. Scientific Reports, 2017, 7, 9664.	3.3	73
133	â€œGreenâ€•bio-thermoset resins derived from soy protein isolate and condensed tannins. Industrial Crops and Products, 2017, 108, 363-370.	5.2	76
134	Characterization and acid-catalysed depolymerization of condensed tannins derived from larch bark. RSC Advances, 2017, 7, 35135-35146.	3.6	28
135	Highly hydrophobic and self-cleaning bulk wood prepared by grafting long-chain alkyl onto wood cell walls. Wood Science and Technology, 2017, 51, 395-411.	3.2	36
136	Simultaneously Toughening and Strengthening Soy Protein Isolate-Based Composites via Carboxymethylated Chitosan and Halloysite Nanotube Hybridization. Materials, 2017, 10, 653.	2.9	19
137	Improvement of Interfacial Adhesion by Bio-Inspired Catechol-Functionalized Soy Protein with Versatile Reactivity: Preparation of Fully Utilizable Soy-Based Film. Polymers, 2017, 9, 95.	4.5	16
138	Preparation and Characterization of Chitosan/Soy Protein Isolate Nanocomposite Film Reinforced by Cu Nanoclusters. Polymers, 2017, 9, 247.	4.5	47
139	Properties of Soy Protein Isolate Biopolymer Film Modified by Graphene. Polymers, 2017, 9, 312.	4.5	26
140	Improvement in Functional Properties of Soy Protein Isolate-Based Film by Cellulose Nanocrystalâ€“Graphene Artificial Nacre Nanocomposite. Polymers, 2017, 9, 321.	4.5	30
141	Improved Adhesion Performance of Soy Protein-Based Adhesives with a Larch Tannin-Based Resin. Polymers, 2017, 9, 408.	4.5	31
142	Fast Curing Bio-Based Phenolic Resins via Lignin Demethylated under Mild Reaction Condition. Polymers, 2017, 9, 428.	4.5	63
143	A Low-Cost, Formaldehyde-Free and High Flame Retardancy Wood Adhesive from Inorganic Adhesives: Properties and Performance. Polymers, 2017, 9, 513.	4.5	25
144	Effect of Ammonium Polyphosphate to Aluminum Hydroxide Mass Ratio on the Properties of Wood-Flour/Polypropylene Composites. Polymers, 2017, 9, 615.	4.5	30

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145	Preparation of Stable Superhydrophobic Coatings on Wood Substrate Surfaces via Mussel-Inspired Polydopamine and Electroless Deposition Methods. Polymers, 2017, 9, 218.	4.5	38
146	Coordination-Driven Controlled Assembly of Polyphenol-Metal Green Coating on Wood Micro-Grooved Surfaces: A Novel Approach to Stable Superhydrophobicity. Polymers, 2017, 9, 347.	4.5	8
147	Physico-Chemical Properties of Soybean Meal-Based Adhesives Reinforced by Ethylene Glycol Diglycidyl Ether and Modified Nanocrystalline Cellulose. Polymers, 2017, 9, 463.	4.5	25
148	A High-Performance Soy Protein Isolate-Based Nanocomposite Film Modified with Microcrystalline Cellulose and Cu and Zn Nanoclusters. Polymers, 2017, 9, 167.	4.5	42
149	Mussel-inspired chemistry for preparation of superhydrophobic surfaces on porous substrates. RSC Advances, 2017, 7, 29149-29158.	3.6	34
150	Synthesis and Mechanism of Metal-Mediated Polymerization of Phenolic Resins. Polymers, 2016, 8, 159.	4.5	44
151	Preparation and Characterization of All-Biomass Soy Protein Isolate-Based Films Enhanced by Epoxy Castor Oil Acid Sodium and Hydroxypropyl Cellulose. Materials, 2016, 9, 193.	2.9	24
152	Microfibrillated Lignocellulose Enables the Suspension-Polymerisation of Unsaturated Polyester Resin for Novel Composite Applications. Polymers, 2016, 8, 255.	4.5	20
153	A New Flexible Soy-Based Adhesive Enhanced with Neopentyl Glycol Diglycidyl Ether: Properties and Application. Polymers, 2016, 8, 346.	4.5	28
154	Scalable Fabrication of Natural-Fiber Reinforced Composites with Electromagnetic Interference Shielding Properties by Incorporating Powdered Activated Carbon. Materials, 2016, 9, 10.	2.9	36
155	A high performance soy protein-based bio-adhesive enhanced with a melamine/epichlorohydrin prepolymer and its application on plywood. RSC Advances, 2016, 6, 67669-67676.	3.6	51
156	Effects of polyisocyanate on properties and pot life of epoxy resin crossâ€linked soybean mealâ€based bioadhesive. Journal of Applied Polymer Science, 2016, 133, .	2.6	25
157	Formulation of a novel soybean proteinâ€based wood adhesive with desired water resistance and technological applicability. Journal of Applied Polymer Science, 2016, 133, .	2.6	44
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