Huiwen Pang

List of Publications by Year
in descending order

32 papers	1,915 citations	236925 25 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	1390 citing authors

#	Article	IF	Citations
1	Soy protein isolate-based films reinforced by surface modified cellulose nanocrystal. Industrial Crops and Products, 2016, 80, 207-213.	5.2	161
2	High-Performance and Fully Renewable Soy Protein Isolate-Based Film from Microcrystalline Cellulose via Bio-Inspired Poly(dopamine) Surface Modification. ACS Sustainable Chemistry and Engineering, 2016, 4, 4354-4360.	6.7	137
3	3D multi-wall perforated nanocellulose-based polyethylenimine aerogels for ultrahigh efficient and reversible removal of Cu(II) ions from water. Chemical Engineering Journal, 2019, 378, 122157.	12.7	133
4	Facile biomimetic self-coacervation of tannic acid and polycation: Tough and wide pH range of underwater adhesives. Chemical Engineering Journal, 2021, 404, 127069.	12.7	113
5	Improvement of interfacial interactions using natural polyphenol-inspired tannic acid-coated nanoclay enhancement of soy protein isolate biofilms. Applied Surface Science, 2017, 401, 271-282.	6.1	99
6	Coreâ€“Shell Nanohybrid Elastomer Based on Co-Deposition Strategy to Improve Performance of Soy Protein Adhesive. ACS Applied Materials & Interfaces, 2019, 11, 32414-32422.	8.0	90
7	Properties of soybean-flour-based adhesives enhanced by attapulgite and glycerol polyglycidyl ether. Industrial Crops and Products, 2014, 59, 35-40.	5.2	82
8	Physico-chemical properties improvement of soy protein isolate films through caffeic acid incorporation and tri-functional aziridine hybridization. Food Hydrocolloids, 2016, 61, 923-932.	10.7	81
9	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
10	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
11	Fully bio-based soybean adhesive in situ cross-linked by interactive network skeleton from plant oil-anchored fiber. Industrial Crops and Products, 2018, 122, 366-374.	5.2	78
12	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
13	Eco-friendly fabrication of a cost-effective cellulose nanofiber-based aerogel for multifunctional applications in Cu(II) and organic pollutants removal. Journal of Cleaner Production, 2020, 255, 120276.	9.3	69
14	Development of mainly plant protein-derived plywood bioadhesives via soy protein isolate fiber self-reinforced soybean meal composites. Industrial Crops and Products, 2019, 133, 10-17.	5.2	67
15	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
16	Bio-inspired cellulose nanofiber-reinforced soy protein resin adhesives with dopamine-induced codeposition of â€œwater-resistantâ€•interphases. Applied Surface Science, 2019, 478, 441-450.	6.1	63
17	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
18	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

#	Article	IF	Citations
19	Preparation and demonstration of poly(dopamine)-triggered attapulgite-anchored polyurethane as a high-performance rod-like elastomer to reinforce soy protein-isolated composites. Applied Surface Science, 2018, 442, 537-546.	6.1	40
20	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
21	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
22	Soy meal adhesive with high strength and water resistance via carboxymethylated wood fiber-induced crosslinking. Cellulose, 2021, 28, 3569-3584.	4.9	32
23	Polyphenol-Metal Ion Redox-Induced Gelation System for Constructing Plant Protein Adhesives with Excellent Fluidity and Cold-Pressing Adhesion. ACS Applied Materials & Interfaces, 2021, 13, 59527-59537.	8.0	30
24	Highly stable cellulose nanofiber/polyacrylamide aerogel via in-situ physical/chemical double crosslinking for highly efficient Cu(II) ions removal. International Journal of Biological Macromolecules, 2022, 209, 1922-1932.	7.5	27
25	Highly compressible nanocellulose aerogels with a cellular structure for high-performance adsorption of Cu(II). Chemosphere, 2022, 291, 132887.	8.2	25
26	Organic-inorganic nanohybrid polyurethane elastomer based on dopamine-mediated biomimetic co-deposition thought toward multiple improved properties. Applied Surface Science, 2019, 493, 1340-1349.	6.1	23
27	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
28	Conversion of soybean oil extraction wastes into high-performance wood adhesives based on mussel-inspired cation-Ï€ interactions. International Journal of Biological Macromolecules, 2022, 209, 83-92.	7.5	23
29	Facile strategy of mussel-inspired polymer as a high-performance dry/wet adhesive. Journal of Cleaner Production, 2021, 308, 127309.	9.3	20
30	Tough thermosensitive hydrogel with excellent adhesion to low-energy surface developed via nanoparticle-induced dynamic crosslinking. Applied Surface Science, 2021, 560, 149935.	6.1	13
31	Mechanically robust, nanofibers-anchored small molecule hybrid plant protein materials with improved antibacterial activity. Industrial Crops and Products, 2022, 185, 115091.	5.2	6
32	Robust Catechol Containing Cationic Waterborne Polyurethanes with Antibacterial, UV Protective, and Adhesive Properties. Macromolecular Materials and Engineering, 2022, 307, .	3.6	5