Sheldon Q Shi

List of Publications by Year
in descending order

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160 papers	5,607 citations	66343 42 h-index	123424 61 g-index
160 all docs	160 docs citations	160 times ranked	4273 citing authors

#	Article	IF	Citations
1	Development and Application of Wood Flour-Filled Polylactic Acid Composite Filament for 3D Printing. Materials, 2017, 10, 339.	2.9	205
2	Soy protein isolate-based films reinforced by surface modified cellulose nanocrystal. Industrial Crops and Products, 2016, 80, 207-213.	5.2	161
3	Lightweight, strong, moldable wood via cell wall engineering as a sustainable structural material. Science, 2021, 374, 465-471.	12.6	137
4	Development of natural fiber-reinforced composite with comparable mechanical properties and reduced energy consumption and environmental impacts for replacing automotive glass-fiber sheet molding compound. Journal of Cleaner Production, 2018, 184, 92-100.	9.3	135
5	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
6	Sustainable high-strength macrofibres extracted from natural bamboo. Nature Sustainability, 2022, 5, 235-244.	23.7	113
7	Soy protein adhesive with bio-based epoxidized daidzein for high strength and mildew resistance. Chemical Engineering Journal, 2020, 390, 124622.	12.7	107
8	Mesoporous activated carbon as a green adsorbent for the removal of heavy metals and Congo red: Characterization, adsorption kinetics, and isotherm studies. Journal of Contaminant Hydrology, 2021, 243, 103869.	3.3	91
9	Self-activation for activated carbon from biomass: theory and parameters. Green Chemistry, 2016, 18, 2063-2071.	9.0	87
10	Hygroscopic thickness swelling rate of compression molded wood fiberboard and wood fiber/polymer composites. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1276-1285.	7.6	85
11	Largeâ€Size Transparent Wood for Energyâ€Saving Building Applications. ChemSusChem, 2018, 11, 4086-4093.	6.8	80
12	Natural fiber and aluminum sheet hybrid composites for high electromagnetic interference shielding performance. Composites Part B: Engineering, 2017, 114, 121-127.	12.0	73
13	High temperature CO2 sensing and its cross-sensitivity towards H2 and CO gas using calcium doped ZnO thin film coated langasite SAW sensor. Sensors and Actuators B: Chemical, 2019, 301, 126958.	7.8	71
14	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
15	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
16	Optically Transparent Bamboo with High Strength and Low Thermal Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 1662-1669.	8.0	68
17	Preparation of a moderate viscosity, high performance and adequately-stabilized soy protein-based adhesive via recombination of protein molecules. Journal of Cleaner Production, 2020, 255, 120303.	9.3	67
18	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

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19	Vacuum-assisted resin infusion (VARI) and hot pressing for CaCO3 nanoparticle treated kenaf fiber reinforced composites. Composites Part B: Engineering, 2015, 78, 138-143.	12.0	65
20	Multiple crosslinking strategy to achieve high bonding strength and antibacterial properties of double-network soy adhesive. Journal of Cleaner Production, 2020, 254, 120143.	9.3	65
21	Environmentally Benign Wood Modifications: A Review. ACS Sustainable Chemistry and Engineering, 2020, 8, 3532-3540.	6.7	64
22	Improvement of water resistance, dimensional stability, and mechanical properties of poplar wood by rosin impregnation. European Journal of Wood and Wood Products, 2016, 74, 177-184.	2.9	63
23	Soybean mealâ€based adhesive enhanced by MUF resin. Journal of Applied Polymer Science, 2012, 125, 3676-3681.	2.6	61
24	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
25	High-pressure CO2 hydrothermal pretreatment of peanut shells for enzymatic hydrolysis conversion into glucose. Chemical Engineering Journal, 2020, 385, 123949.	12.7	60
26	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
27	Bio-inspired co-deposition strategy of aramid fibers to improve performance of soy protein isolate-based adhesive. Industrial Crops and Products, 2020, 150, 112424.	5.2	58
28	Natural fiber composites with EMI shielding function fabricated using VARTM and Cu film magnetron sputtering. Applied Surface Science, 2016, 362, 335-340.	6.1	57
29	Bioinspired interface engineering of soybean meal-based adhesive incorporated with biomineralized cellulose nanofibrils and a functional aminoclay. Chemical Engineering Journal, 2021, 421, 129820.	12.7	57
30	A chemical process for preparing cellulosic fibers hierarchically from kenaf bast fibers. BioResources, 2011, 6, 879-890.	1.0	56
31	Hybrid boron nitride-natural fiber composites for enhanced thermal conductivity. Scientific Reports, 2016, 6, 34726.	3.3	55
32	Property enhancement of soy protein isolate-based films by introducing POSS. International Journal of Biological Macromolecules, 2016, 82, 168-173.	7.5	54
33	Catalytic pyrolysis of larch sawdust for phenol-rich bio-oil using different catalysts. Renewable Energy, 2018, 121, 146-152.	8.9	53
34	Bioinspired and biomineralized magnesium oxychloride cement with enhanced compressive strength and water resistance. Journal of Hazardous Materials, 2020, 383, 121099.	12.4	53
35	Diffusion model based on Fickâ€™s second law for the moisture absorption process in wood fiber-based composites: is it suitable or not?. Wood Science and Technology, 2007, 41, 645-658.	3.2	49
36	Application of intermittent ball milling to enzymatic hydrolysis for efficient conversion of lignocellulosic biomass into glucose. Renewable and Sustainable Energy Reviews, 2021, 136, 110442.	16.4	49

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37	In-Situ Chemosynthesis of ZnO Nanoparticles to Endow Wood with Antibacterial and UV-Resistance Properties. Journal of Materials Science and Technology, 2017, 33, 266-270.	10.7	48
38	Processing high-performance woody materials by means of vacuum-assisted resin infusion technology. Journal of Cleaner Production, 2019, 241, 118340.	9.3	46
39	Bioinspired dual-crosslinking strategy for fabricating soy protein-based adhesives with excellent mechanical strength and antibacterial activity. Composites Part B: Engineering, 2022, 240, 109987.	12.0	46
40	Characterization of bio-oils and bio-chars obtained from the catalytic pyrolysis of alkali lignin with metal chlorides. Fuel Processing Technology, 2015, 138, 605-611.	7.2	45
41	Soy protein isolate-based films cross-linked by epoxidized soybean oil. RSC Advances, 2015, 5, 82765-82771.	3.6	45
42	The three-dimensional heterostructure synthesis of ZnO/cellulosic fibers and its application for rubber composites. Composites Science and Technology, 2019, 177, 10-17.	7.8	44
43	Wetting mechanism and interfacial bonding performance of bamboo fiber reinforced epoxy resin composites. Composites Science and Technology, 2021, 213, 108951.	7.8	44
44	Hyperbranched catechol biomineralization for preparing super antibacterial and fire-resistant soybean protein adhesives with long-term adhesion. Chemical Engineering Journal, 2022, 449, 137822.	12.7	44
45	Comparative environmental life cycle assessment of fiber reinforced cement panel between kenaf and glass fibers. Journal of Cleaner Production, 2018, 200, 196-204.	9.3	42
46	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
47	Three-dimensional carbon nanotubes for high capacity lithium-ion batteries. Journal of Power Sources, 2015, 299, 465-471.	7.8	40
48	Electromagnetic shielding properties of iron oxide impregnated kenaf bast fiberboard. Composites Part B: Engineering, 2015, 78, 266-271.	12.0	39
49	Highâ€Temperature Gas Sensors for Harsh Environment Applications: A Review. Clean - Soil, Air, Water, 2019, 47, 1800491.	1.1	39
50	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
51	Property enhancement of kenaf fiber reinforced composites by in situ aluminum hydroxide impregnation. Industrial Crops and Products, 2016, 79, 131-136.	5.2	38
52	Property enhancement of kenaf fiber composites by means of vacuum-assisted resin transfer molding (VARTM). Holzforschung, 2015, 69, 307-312.	1.9	37
53	A high-performance soybean meal-based plywood adhesive prepared via an ultrasonic process and using significantly lower amounts of chemical additives. Journal of Cleaner Production, 2020, 274, 123017.	9.3	37
54	Bioinspired mineralâ€“organic strategy for fabricating a high-strength, antibacterial, flame-retardant soy protein bioplastic via internal boronâ€“nitrogen coordination. Chemical Engineering Journal, 2022, 428, 132616.	12.7	37

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55	Scalable Fabrication of Natural-Fiber Reinforced Composites with Electromagnetic Interference Shielding Properties by Incorporating Powdered Activated Carbon. Materials, 2016, 9, 10.	2.9	36
56	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
57	Nanoclay filled soyâ€based polyurethane foam. Journal of Applied Polymer Science, 2011, 119, 1857-1863.	2.6	35
58	Properties of unidirectional kenaf fiberâ€“polyolefin laminates. Polymer Composites, 2010, 31, 1067-1074.	4.6	33
59	The bending properties of bamboo bundle laminated veneer lumber (BLVL) double beams. Construction and Building Materials, 2016, 119, 145-151.	7.2	33
60	Self-bonded natural fiber product with high hydrophobic and EMI shielding performance via magnetron sputtering Cu film. Applied Surface Science, 2019, 475, 947-952.	6.1	33
61	Flammability and mechanical properties of composites fabricated with CaCO3-filled pine flakes and Phenol Formaldehyde resin. Composites Part B: Engineering, 2019, 167, 1-6.	12.0	33
62	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
63	Effect of thermal treatment of wood lumbers on their adhesive bond strength and durability. Journal of Adhesion Science and Technology, 2007, 21, 745-754.	2.6	32
64	Water-resistant hemp fiber-reinforced composites: In-situ surface protection by polyethylene film. Industrial Crops and Products, 2018, 112, 210-216.	5.2	32
65	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
66	Effect of the addition of wood flours on the properties of rigid polyurethane foam. Journal of Applied Polymer Science, 2009, 113, 2902-2909.	2.6	31
67	Enhancement of mechanical and thermal properties of Poplar through the treatment of glyoxal-urea/nano-SiO₂. RSC Advances, 2015, 5, 54148-54155.	3.6	31
68	Adding nickel formate in alkali lignin to increase contents of alkylphenols and aromatics during fast pyrolysis. Bioresource Technology, 2017, 227, 1-6.	9.6	31
69	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
70	Controlling pore size of activated carbon through self-activation process for removing contaminants of different molecular sizes. Journal of Colloid and Interface Science, 2018, 518, 41-47.	9.4	30
71	Effect of thermal treatment with water, H2SO4 and NaOH aqueous solution on color, cell wall and chemical structure of poplar wood. Scientific Reports, 2018, 8, 17735.	3.3	30
72	Thermal and flammable properties of bamboo pulp fiber/high-density polyethylene composites: Influence of preparation technology, nano calcium carbonate and fiber content. Renewable Energy, 2019, 134, 436-445.	8.9	29

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73	Assembly of graphene oxide into the hyperbranched frameworks for the fabrication of flexible protein-based films with enhanced conductivities. Composites Part B: Engineering, 2020, 196, 108110.	12.0	29
74	Multiple Hydrogen Bonding Enables Strong, Tough, and Recyclable Soy Protein Films. ACS Sustainable Chemistry and Engineering, 2020, 8, 7680-7689.	6.7	28
75	A water-resistant and mildewproof soy protein adhesive enhanced by epoxidized xylitol. Industrial Crops and Products, 2022, 180, 114794.	5.2	28
76	CO₂ Sensing Behavior of Calcium-Doped ZnO Thin Film: A Study To Address the Cross-Sensitivity of CO₂ in H₂ and CO Environment. Langmuir, 2019, 35, 10267-10275.	3.5	27
77	Development and evaluation of zinc oxide-blended kenaf fiber biocomposite for automotive applications. Materials Today Communications, 2020, 24, 101008.	1.9	27
78	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
79	Design, Development, and Outlook of Superwettability Membranes in Oil/Water Emulsions Separation. Advanced Materials Interfaces, 2021, 8, 2100799.	3.7	27
80	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
81	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
82	Quality improvement of pyrolysis oil from waste rubber by adding sawdust. Waste Management, 2014, 34, 2603-2610.	7.4	26
83	High pressure-assisted magnesium carbonate impregnated natural fiber-reinforced composites. Industrial Crops and Products, 2016, 86, 16-22.	5.2	26
84	Dual-functional natural-fiber reinforced composites by incorporating magnetite. Composites Part B: Engineering, 2016, 93, 221-228.	12.0	26
85	High efficiency pyrolysis of used cigarette filters for ester-rich bio-oil through microwave-assisted heating. Journal of Cleaner Production, 2020, 257, 120596.	9.3	26
86	A bio-inspired multifunctional soy protein-based material: From strong underwater adhesion to 3D printing. Chemical Engineering Journal, 2022, 430, 133017.	12.7	26
87	A new model to determine contact angles on swelling polymer particles by the column wicking method. Journal of Adhesion Science and Technology, 2000, 14, 301-314.	2.6	25
88	Effects of Carbonization Temperature and Component Ratio on Electromagnetic Interference Shielding Effectiveness of Woodceramics. Materials, 2016, 9, 540.	2.9	25
89	Research Progress on Formaldehyde Emission of Wood-Based Panel. International Journal of Polymer Science, 2018, 2018, 1-8.	2.7	25
90	Comparative life-cycle assessment of water supply pipes made from bamboo vs. polyvinyl chloride. Journal of Cleaner Production, 2019, 240, 118172.	9.3	25

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91	Mechanical property enhancement of self-bonded natural fiber material via controlling cell wall plasticity and structure. Materials and Design, 2019, 172, 107763.	7.0	25
92	Enhancement of mechanical properties of composites made of calcium carbonate modified bamboo fibers and polypropylene. Holzforschung, 2015, 69, 215-221.	1.9	24
93	A Highâ€Performance Bioâ€Adhesive Using Hyperbranched Aminated Soybean Polysaccharide and Bioâ€Based Epoxide. Advanced Materials Interfaces, 2020, 7, 2000148.	3.7	24
94	Effect of Impregnated Inorganic Nanoparticles on the Properties of the Kenaf Bast Fibers. Fibers, 2014, 2, 242-254.	4.0	23
95	Impact properties of bamboo bundle laminated veneer lumber by preprocessing densification technology. Journal of Wood Science, 2014, 60, 421-427.	1.9	23
96	Increasing inorganic nanoparticle impregnation efficiency by external pressure for natural fibers. Industrial Crops and Products, 2015, 69, 395-399.	5.2	23
97	The effect of delignification on the properties of cellulosic fiber material. Holzforschung, 2018, 72, 443-449.	1.9	23
98	A One-Pot Synthesis and Characterization of Antibacterial Silver Nanoparticleâ€“Cellulose Film. Polymers, 2020, 12, 440.	4.5	23
99	Impact of the Combination of Densification and Thermal Modification on Dimensional Stability and Hardness of Poplar Lumber. Drying Technology, 2013, 31, 1107-1113.	3.1	22
100	Effect of light-delignification on mechanical, hydrophobic, and thermal properties of high-strength molded fiber materials. Scientific Reports, 2018, 8, 955.	3.3	22
101	Phase transitions of carbon-encapsulated iron oxide nanoparticles during the carbonization of cellulose at various pyrolysis temperatures. Journal of Analytical and Applied Pyrolysis, 2015, 115, 1-6.	5.5	21
102	Effect of laminated structure design on the mechanical properties of bamboo-wood hybrid laminated veneer lumber. European Journal of Wood and Wood Products, 2017, 75, 439-448.	2.9	21
103	Reinforcement of Polylactic Acid for Fused Deposition Modeling Process with Nano Particles Treated Bamboo Powder. Polymers, 2019, 11, 1146.	4.5	21
104	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
105	Mechanical properties of amorphous cellulose using molecular dynamics simulations with a reactive force field. International Journal of Modelling, Identification and Control, 2013, 18, 211.	0.2	20
106	Kenaf fiber/soy protein based biocomposites modified with poly(carboxylic acid) resin. Journal of Applied Polymer Science, 2013, 128, 1213-1218.	2.6	20
107	Microwave-Assisted Catalytic Cleavage of Câ€“C Bond in Lignin Models by Bifunctional Pt/CDC-SiC. ACS Sustainable Chemistry and Engineering, 2020, 8, 38-43.	6.7	20
108	A Tough and Mildew-Proof Soybean-Based Adhesive Inspired by Mussel and Algae. Polymers, 2020, 12, 756.	4.5	20

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109	Sandcastle worm-inspired phytic acid and magnesium oxychloride cement copolymerization for performance enhancement. Journal of Hazardous Materials, 2021, 404, 123992.	12.4	20
110	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
111	Compression and flexural properties of rigid polyurethane foam composites reinforced with 3D-printed polylactic acid lattice structures. Composite Structures, 2022, 279, 114866.	5.8	19
112	Rheological Behavior of Larch Timber during Conventional Drying. Drying Technology, 2009, 27, 1041-1050.	3.1	18
113	Thiol-branched graphene oxide and polydopamine-induced nanofibrillated cellulose to strengthen protein-based nanocomposite films. Cellulose, 2019, 26, 7223-7236.	4.9	18
114	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
115	Magnesium oxychloride cement reinforced via D-gluconic acid sodium salt for slow-curing, with enhanced compressive strength and water resistance. Construction and Building Materials, 2021, 280, 122487.	7.2	18
116	Full Bioâ€Based Soy Protein Isolate Film Enhanced by Chicken Feather Keratin. Macromolecular Materials and Engineering, 2021, 306, 2100004.	3.6	17
117	Green Synthesis of Silver Nanoparticles Using Cannabis sativa Extracts and Their Anti-Bacterial Activity. Green and Sustainable Chemistry, 2021, 11, 28-38.	1.2	17
118	Pine Wood Extracted Activated Carbon through Selfâ€Activation Process for Highâ€Performance Lithiumâ€Ion Battery. ChemistrySelect, 2016, 1, 4000-4007.	1.5	16
119	Microwave-assisted formic acid extraction for high-purity cellulose production. Cellulose, 2019, 26, 5913-5924.	4.9	16
120	Soybean Meal-Based Wood Adhesive Enhanced by Phenol Hydroxymethylated Tannin Oligomer for Exterior Use. Polymers, 2020, 12, 758.	4.5	16
121	Kenaf Bast Fibersâ€”Part II: Inorganic Nanoparticle Impregnation for Polymer Composites. International Journal of Polymer Science, 2011, 2011, 1-7.	2.7	15
122	The effect of PF/PVAC weight ratio and ambient temperature on moisture absorption performance of bambooâ€bundle laminated veneer lumber. Polymer Composites, 2016, 37, 955-962.	4.6	15
123	Effect of Various Microwave Absorbents on the Microwave-Assisted Lignin Depolymerization Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 16086-16090.	6.7	15
124	Flakeboard Bonded with Polymeric Diphenylmethane Diisocyanate/Bio-Oil Adhesive Systems. Forest Products Journal, 2011, 61, 240-245.	0.4	15
125	A Bio-Hygromorph Fabricated with Fish Swim Bladder Hydrogel and Wood Flour-Filled Polylactic Acid Scaffold by 3D Printing. Materials, 2019, 12, 2896.	2.9	14
126	Novel 2D Dynamic Elasticity Maps for Inspection of Anisotropic Properties in Fused Deposition Modeling Objects. Polymers, 2020, 12, 1966.	4.5	14

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127	Bioinspired super-tough and multifunctional soy protein-based material via a facile approach. Chemical Engineering Journal, 2021, 405, 126700.	12.7	14
128	Bamboo Bundle Corrugated Laminated Composites (BCLC). Part I. Three-Dimensional Stability in Response to Corrugating Effect. Journal of Adhesion, 2013, 89, 225-238.	3.0	13
129	Optimum processing parameters for wood-bamboo hybrid composite sleepers. Journal of Reinforced Plastics and Composites, 2014, 33, 2010-2018.	3.1	13
130	Bioinspired Organicâ€“Inorganic Hybrid Magnesium Oxychloride Cement via Chitosan and Tartaric Acid. ACS Sustainable Chemistry and Engineering, 2020, 8, 18841-18852.	6.7	13
131	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
132	Acceleration of Moisture Migration in Larch Wood Through Microwave Pre-Treatments. Drying Technology, 2013, 31, 666-671.	3.1	12
133	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
134	Multifunctional conductive graphite/cellulosic microfiber-natural rubber composite sponge with ultrasensitive collision-warning and fire-waring. Chemical Engineering Journal, 2022, 431, 134046.	12.7	12
135	Langasite-based surface acoustic wave resonator for acetone vapor sensing. Smart Materials and Structures, 2020, 29, 015039.	3.5	11
136	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
137	Marine sponge spicules-inspired magnesium oxychloride cement with both enhanced water resistance and compressive strength via incorporating acid-activated palygorskite. Applied Clay Science, 2020, 196, 105748.	5.2	10
138	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
139	Sodium Hydroxide-Free Soy Protein Isolate-Based Films Crosslinked by Pentaerythritol Glycidyl Ether. Polymers, 2018, 10, 1300.	4.5	9
140	Effect of lignin on the self-bonding of a natural fiber material in a hydrothermal environment: Lignin structure and characterization. International Journal of Biological Macromolecules, 2020, 158, 1135-1140.	7.5	9
141	Self-support wood-derived carbon/polyaniline composite for high-performance supercapacitor electrodes. Bulletin of Materials Science, 2020, 43, 1.	1.7	9
142	Preparation and properties of pulp fibers treated with zinc oxide nanoparticles by in situ chemosynthesis. Holzforschung, 2018, 72, 923-931.	1.9	8
143	Eco-friendly soy protein isolate-based films strengthened by water-soluble glycerin epoxy resin. Progress in Organic Coatings, 2022, 162, 106566.	3.9	8
144	Removal of hazardous dyes and waterborne pathogens using a nanoengineered bioadsorbent from hemp â€“ Fabrication, characterization and performance investigation. Surfaces and Interfaces, 2022, 29, 101797.	3.0	8

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145	Fabrication of Wood-Rubber Composites Using Rubber Compound as a Bonding Agent Instead of Adhesives. Materials, 2016, 9, 469.	2.9	7
146	Laminated structure design of woodâ€"Bamboo hybrid laminated composite using finite element simulations. Journal of Reinforced Plastics and Composites, 2016, 35, 1661-1670.	3.1	7
147	Comparison of density and selected microscopic characteristics of stem and branch wood of two commercial trees in Ghana. Wood Science and Technology, 2016, 50, 91-104.	3.2	7
148	An ultrastrong bioinspired soy protein isolate-based nanocomposite with graphene oxide intercalation. Composites Part B: Engineering, 2022, 236, 109805.	12.0	7
149	Versatile and biomass synthesis of iron-based nanoparticles supported on carbon matrix with high iron content and tunable reactivity. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	6
150	Effects of Pressure from Highâ€Pressure Homogenization on the Performance of Soybean Flour Basedâ€Adhesive. Macromolecular Materials and Engineering, 2021, 306, 2000458.	3.6	5
151	Effects of air-assisted solar drying on poplar lumber drying processes in sub frigid zone regions. Drying Technology, 2022, 40, 3580-3590.	3.1	5
152	CaCO3 in situ treated bamboo pulp fiber reinforced composites obtained by vacuum-assisted resin infusion. Wood Science and Technology, 2017, 51, 571-584.	3.2	4
153	Microwave induced construction of multiple networks for multifunctional soy protein-based materials. Progress in Organic Coatings, 2021, 158, 106390.	3.9	4
154	Effect of wood microstructure and hygroscopicity on the drying characteristics of waterborne wood coating. Wood Science and Technology, 2022, 56, 743-758.	3.2	4
155	Experimental analysis on strength and failure modes of wood beam-column connections. Frontiers of Structural and Civil Engineering, 2014, 8, 260-269.	2.9	2
156	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
157	Spider Silk Inspired Robust and Photoluminescent Soybeanâ€Proteinâ€Based Materials. Macromolecular Materials and Engineering, 2021, 306, 2100155.	3.6	2
158	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
159	Natural fiber-metallic composites with remarkable gradient structures. Materials Today Communications, 2020, 25, 101453.	1.9	1
160	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