Bijia Wang

List of Publications by Citations

110 papers	2,084 citations	27 h-index	38 g-index
113 ext. papers	2,762 ext. citations	7.1 avg, IF	5.41 L-index

#	Paper	IF	Citations
110	Cellulose Sponge Supported Palladium Nanoparticles as Recyclable Cross-Coupling Catalysts. *ACS Applied Materials & Interfaces*, **2017**, 9, 17155-17162	9.5	99
109	Durable flame retardant and antibacterial finishing on cotton fabrics with cyclotriphosphazene/polydopamine/silver nanoparticles hybrid coatings. *Applied Surface Science*, **2018**, 435, 1337-1343	6.7	72
108	Flexible cellulose-based thermoelectric sponge towards wearable pressure sensor and energy harvesting. *Chemical Engineering Journal*, **2018**, 338, 1-7	14.7	62
107	Facile fabrication of redox/pH dual stimuli responsive cellulose hydrogel. *Carbohydrate Polymers*, **2017**, 176, 299-306	10.3	59
106	Cellulose-rich oleogels prepared with an emulsion-templated approach. *Food Hydrocolloids*, **2018**, 77, 460-464	10.6	58
105	High-performance textile electrodes for wearable electronics obtained by an improved in situ polymerization method. *Chemical Engineering Journal*, **2019**, 361, 897-907	14.7	55
104	Biodegradable regenerated cellulose-dispersed composites with improved properties via a pickering emulsion process. *Carbohydrate Polymers*, **2018**, 179, 86-92	10.3	50
103	Self-healing and injectable polysaccharide hydrogels with tunable mechanical properties. *Cellulose*, **2018**, 25, 559-571	5.5	49
102	Durable antibacterial and hydrophobic cotton fabrics utilizing enamine bonds. *Carbohydrate Polymers*, **2019**, 211, 173-180	10.3	48
101	Cellulose nanofibril-reinforced biodegradable polymer composites obtained via a Pickering emulsion approach. *Cellulose*, **2017**, 24, 3313-3322	5.5	42
100	A naked-eye detection polyvinyl alcohol/cellulose-based pH sensor for intelligent packaging. *Carbohydrate Polymers*, **2020**, 233, 115859	10.3	42
99	Cellulosic sponges with pH responsive wettability for efficient oil-water separation. *Carbohydrate Polymers*, **2020**, 237, 116133	10.3	41
98	Facile synthesis of microfibrillated cellulose/organosilicon/polydopamine composite sponges with flame retardant properties. *Cellulose*, **2017**, 24, 3815-3823	5.5	41
97	Poly(lactic acid)/lignin blends prepared with the Pickering emulsion template method. *European Polymer Journal*, **2019**, 110, 378-384	5.2	41
96	Durable Press Finishing of Cotton Fabrics with Citric Acid: Enhancement of Whiteness and Wrinkle Recovery by Polyol Extenders. *Industrial & Engineering Chemistry Research*, **2013**, 52, 16118-16127	3.9	39
95	Hydrolysis-free and fully recyclable reactive dyeing of cotton in green, non-nucleophilic solvents for a sustainable textile industry. *Journal of Cleaner Production*, **2015**, 107, 550-556	10.3	38
94	Poly(lactic acid)/cellulose nanocrystal composites via the Pickering emulsion approach: Rheological, thermal and mechanical properties. *International Journal of Biological Macromolecules*, **2019**, 137, 197-204	7.9	38

93	An environmentally responsible polyester dyeing technology using liquid paraffin. *Journal of Cleaner Production*, **2016**, 112, 987-994	10.3	37
92	Facile preparation of polysaccharide-based sponges and their potential application in wound dressing. *Journal of Materials Chemistry B*, **2018**, 6, 634-640	7.3	37
91	Chemical crosslinking reinforced flexible cellulose nanofiber-supported cryogel. *Cellulose*, **2018**, 25, 573-582	5.5	37
90	Shape-stabilized hydrated salt/paraffin composite phase change materials for advanced thermal energy storage and management. *Chemical Engineering Journal*, **2020**, 385, 123958	14.7	36
89	Catalytic MOF-loaded cellulose sponge for rapid degradation of chemical warfare agents simulant. *Carbohydrate Polymers*, **2019**, 213, 184-191	10.3	36
88	Thiol□ne click reaction on cellulose sponge and its application for oil/water separation. *RSC Advances*, **2017**, 7, 20147-20151	3.7	33
87	Mechanically flexible, waterproof, breathable cellulose/polypyrrole/polyurethane composite aerogels as wearable heaters for personal thermal management. *Chemical Engineering Journal*, **2020**, 402, 126222	14.7	32
86	Multifaceted applications of cellulosic porous materials in environment, energy, and health. *Progress in Polymer Science*, **2020**, 106, 101253	29.6	31
85	In Vitro Digestion of Oil-in-Water Emulsions Stabilized by Regenerated Chitin. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 12344-12352	5.7	29
84	Boron nitride microsheets bridged with reduced graphene oxide as scaffolds for multifunctional shape stabilized phase change materials. *Solar Energy Materials and Solar Cells*, **2020**, 209, 110441	6.4	27
83	A light-weight and high-efficacy antibacterial nanocellulose-based sponge via covalent immobilization of gentamicin. *Carbohydrate Polymers*, **2018**, 200, 595-601	10.3	27
82	Sustainable and Hydrolysis-Free Dyeing Process for Polylactic Acid Using Nonaqueous Medium. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 1039-1046	8.3	26
81	Microencapsulated phase change material via Pickering emulsion stabilized by graphene oxide for photothermal conversion. *Journal of Materials Science*, **2020**, 55, 7731-7742	4.3	25
80	A shape-stable phase change composite prepared from cellulose nanofiber/polypyrrole/polyethylene glycol for electric-thermal energy conversion and storage. *Chemical Engineering Journal*, **2020**, 400, 125950	14.7	25
79	Copper-loaded nanocellulose sponge as a sustainable catalyst for regioselective hydroboration of alkynes. *Carbohydrate Polymers*, **2018**, 191, 17-24	10.3	24
78	Quantitative analysis of citric acid/sodium hypophosphite modified cotton by HPLC and conductometric titration. *Carbohydrate Polymers*, **2015**, 121, 92-8	10.3	23
77	Cellulosic scaffolds doped with boron nitride nanosheets for shape-stabilized phase change composites with enhanced thermal conductivity. *International Journal of Biological Macromolecules*, **2020**, 148, 627-634	7.9	22
76	Fabrication of Thermoresponsive Polymer-Functionalized Cellulose Sponges: Flexible Porous Materials for Stimuli-Responsive Catalytic Systems. *ACS Applied Materials & Interfaces*, **2018**, 10, 27831-27839	9.5	22

75	Heterogeneous Chemical Modification of Cotton Cellulose with Vinyl Sulfone Dyes in Non-Nucleophilic Organic Solvents. *Industrial & Engineering Chemistry Research*, **2014**, 53, 15802-15810	3.9	22
74	Facile synthesis of cellulose derivatives based on cellulose acetoacetate. *Carbohydrate Polymers*, **2017**, 170, 117-123	10.3	21
73	Stable microencapsulated phase change materials with ultrahigh payload for efficient cooling of mobile electronic devices. *Energy Conversion and Management*, **2020**, 223, 113478	10.6	20
72	A Nature-Inspired Monolithic Integrated Cellulose Aerogel-Based Evaporator for Efficient Solar Desalination. *ACS Applied Materials & Interfaces*, **2021**, 13, 10612-10622	9.5	20
71	High-performance polypyrrole coated knitted cotton fabric electrodes for wearable energy storage. *Organic Electronics*, **2019**, 74, 59-68	3.5	19
70	Oil-in-water Pickering emulsions from three plant-derived regenerated celluloses. *Carbohydrate Polymers*, **2019**, 207, 755-763	10.3	19
69	Comprehensive Study on Cellulose Swelling for Completely Recyclable Nonaqueous Reactive Dyeing. *Industrial & Engineering Chemistry Research*, **2015**, 54, 2439-2446	3.9	18
68	Facile Fabrication of Robust and Stretchable Cellulose Nanofibers/Polyurethane Hybrid Aerogels. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 8977-8985	8.3	17
67	Smart cotton fabric screen-printed with viologen polymer: photochromic, thermochromic and ammonia sensing. *Cellulose*, **2020**, 27, 2939-2952	5.5	17
66	Facile fabrication of carboxymethyl chitosan/paraffin coated carboxymethylated cotton fabric with asymmetric wettability for hemostatic wound dressing. *Cellulose*, **2020**, 27, 3443-3453	5.5	17
65	Facile fabrication of thiol-modified cellulose sponges for adsorption of Hg2+ from aqueous solutions. *Cellulose*, **2018**, 25, 3025-3035	5.5	17
64	Green Finishing of Cotton Fabrics Using a Xylitol-Extended Citric Acid Cross-linking System on a Pilot Scale. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1131-1138	8.3	17
63	Multi-responsive, self-healing and adhesive PVA based hydrogels induced by the ultrafast complexation of Fe ions. *Soft Matter*, **2019**, 15, 7404-7411	3.6	17
62	Enamine Approach for Versatile and Reversible Functionalization on Cellulose Related Porous Sponges. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9028-9036	8.3	17
61	Functionalization of cotton fabric with bismuth oxyiodide nanosheets: applications for photodegrading organic pollutants, UV shielding and self-cleaning. *Cellulose*, **2019**, 26, 2873-2884	5.5	16
60	Regenerated cellulose-dispersed polystyrene composites enabled via Pickering emulsion polymerization. *Carbohydrate Polymers*, **2019**, 223, 115079	10.3	16
59	Transforming commercial regenerated cellulose yarns into multifunctional wearable electronic textiles. *Journal of Materials Chemistry C*, **2020**, 8, 1309-1318	7.1	16
58	An autonomously healable, highly stretchable and cyclically compressible, wearable hydrogel as a multimodal sensor. *Polymer Chemistry*, **2020**, 11, 1327-1336	4.9	16

57	Antibacterial phase change microcapsules obtained with lignin as the Pickering stabilizer and the reducing agent for silver. *International Journal of Biological Macromolecules*, **2020**, 144, 624-631	7.9	16
56	Flexible textiles with polypyrrole deposited phase change microcapsules for efficient photothermal energy conversion and storage. *Solar Energy Materials and Solar Cells*, **2021**, 224, 110985	6.4	15
55	Biginelli reaction on cellulose acetoacetate: a new approach for versatile cellulose derivatives. *Carbohydrate Polymers*, **2019**, 209, 223-229	10.3	15
54	Rheology of regenerated cellulose suspension and influence of sodium alginate. *International Journal of Biological Macromolecules*, **2020**, 148, 811-816	7.9	14
53	Cellulose nanocrystals-composited poly (methyl methacrylate) encapsulated n-eicosane via a Pickering emulsion-templating approach for energy storage. *Carbohydrate Polymers*, **2020**, 234, 115934	10.3	14
52	Sponges with Janus Character from Nanocellulose: Preparation and Applications in the Treatment of Hemorrhagic Wounds. *Advanced Healthcare Materials*, **2020**, 9, e1901796	10.1	14
51	Bio-based polymer colorants from nonaqueous reactive dyeing of regenerated cellulose for plastics and textiles. *Carbohydrate Polymers*, **2019**, 206, 734-741	10.3	13
50	Lignin assisted Pickering emulsion polymerization to microencapsulate 1-tetradecanol for thermal management. *International Journal of Biological Macromolecules*, **2020**, 146, 1-8	7.9	12
49	A waterborne bio-based polymer pigment: colored regenerated cellulose suspension from waste cotton fabrics. *Cellulose*, **2018**, 25, 7369-7379	5.5	12
48	High-energy storage graphene oxide modified phase change microcapsules from regenerated chitin Pickering Emulsion for photothermal conversion. *Solar Energy Materials and Solar Cells*, **2021**, 222, 110924	6.4	11
47	Polyphosphazene microspheres modified with transition metal hydroxystannate for enhancing the flame retardancy of polyethylene terephthalate. *Polymers for Advanced Technologies*, **2020**, 31, 1194-1207	3.2	10
46	Temperature-responsive cellulose sponge with switchable pore size: Application as a water flow manipulator. *Materials Letters*, **2018**, 210, 337-340	3.3	10
45	Characterization of dimethyl sulfoxide-treated wool and enhancement of reactive wool dyeing in non-aqueous medium. *Textile Reseach Journal*, **2016**, 86, 533-542	1.7	10
44	Preparation and characterization of carboxymethylated cotton fabrics as hemostatic wound dressing. *International Journal of Biological Macromolecules*, **2020**, 160, 18-25	7.9	10
43	Antibacterial thyme oil-loaded organo-hydrogels utilizing cellulose acetoacetate as reactive polymer emulsifier. *International Journal of Biological Macromolecules*, **2020**, 147, 18-23	7.9	10
42	Fabrication of lignin/poly(3-hydroxybutyrate) nanocomposites with enhanced properties via a Pickering emulsion approach. *International Journal of Biological Macromolecules*, **2020**, 165, 3078-3087	7.9	10
41	The comb-like modified styrene-maleic anhydride copolymer dispersant for disperse dyes. *Journal of Applied Polymer Science*, **2019**, 136, 47330	2.9	10
40	Precipitated silica agglomerates reinforced with cellulose nanofibrils as adsorbents for heavy metals.. *RSC Advances*, **2018**, 8, 33129-33137	3.7	9

39	Enhancing electrical conductivity and electrical stability of polypyrrole-coated cotton fabrics via surface microdissolution. *Journal of Applied Polymer Science*, **2019**, 136, 47515	2.9	8
38	Flexible and Robust Bacterial Cellulose-Based Ionogels with High Thermoelectric Properties for Low-Grade Heat Harvesting. *Advanced Functional Materials*,2107105	15.6	8
37	Flame-retardant poly (ethylene terephthalate) enabled by a novel melamine polyphosphate nanowire. *Polymers for Advanced Technologies*, **2020**, 31, 795-806	3.2	8
36	Acetone/Water Cosolvent Approach to Lignin Nanoparticles with Controllable Size and Their Applications for Pickering Emulsions. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 5470-5480	8.3	8
35	Synthetic semicrystalline cellulose oligomers as efficient Pickering emulsion stabilizers. *Carbohydrate Polymers*, **2021**, 254, 117445	10.3	8
34	Durable and Effective Antibacterial Cotton Fabric Collaborated with Polypropylene Tissue Mesh for Abdominal Wall Defect Repair. *ACS Biomaterials Science and Engineering*, **2020**, 6, 3868-3877	5.5	7
33	Self-healing and acidochromic polyvinyl alcohol hydrogel reinforced by regenerated cellulose. *Carbohydrate Polymers*, **2021**, 255, 117331	10.3	7
32	A heterogeneous binary solvent system for recyclable reactive dyeing of cotton fabrics. *Cellulose*, **2018**, 25, 7381-7392	5.5	7
31	Preparation and characterization of biodegradable poly(?-caprolactone) self-reinforced composites and their crystallization behavior. *Polymer International*, **2017**, 66, 1555-1563	3.3	6
30	Improving Application Performance of in situ Polymerization and Crosslinking System of Maleic Acid/Itaconic Acid for Cotton Fabric. *Fibers and Polymers*, **2018**, 19, 281-288	2	6
29	Pickering emulsion process assisted construction of regenerated chitin reinforced poly (lactic acid) blends. *International Journal of Biological Macromolecules*, **2019**, 140, 10-16	7.9	6
28	Robust Fabrication of Fluorescent Cellulosic Materials via Hantzsch Reaction. *Macromolecular Rapid Communications*, **2021**, 42, e2000496	4.8	6
27	Molecular surface area based predictive models for the adsorption and diffusion of disperse dyes in polylactic acid matrix. *Journal of Colloid and Interface Science*, **2015**, 458, 22-31	9.3	5
26	A facile method for fabricating color adjustable multifunctional cotton fabrics with solid solution BiOBrxI1⊠ nanosheets. *Cellulose*, **2020**, 27, 3517-3530	5.5	5
25	A recyclable 3D g-C3N4 based nanocellulose aerogel composite for photodegradation of organic pollutants. *Cellulose*, **2021**, 28, 3531-3547	5.5	5
24	A study of the diffusion behaviour of reactive dyes in cellulose fibres using confocal Raman microscopy. *Coloration Technology*, **2020**, 136, 503-511	2	4
23	Improving wet strength of soy protein films using oxidized sucrose. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	4
22	Real-time monitoring of multicomponent reactive dye adsorption on cotton fabrics by Raman spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 230, 118051	4.4	4

21	Calcium functioned carboxymethylated cotton fabric for hemostatic wound dressing. *Cellulose*, **2020**, 27, 10139-10149	5.5	4
20	Nanocellulose sponges as efficient continuous flow reactors. *Carbohydrate Polymers*, **2019**, 224, 115184	10.3	3
19	Synthesis and application of poly (cyclotriphosphazene-resveratrol) microspheres for enhancing flame retardancy of poly (ethylene terephthalate). *Polymers for Advanced Technologies*,	3.2	3
18	The effect of the degree of substitution on the solubility of cellulose acetoacetates in water: A molecular dynamics simulation and density functional theory study. *Carbohydrate Research*, **2020**, 496, 108134	2.9	3
17	Antioxidant-assisted coloration of wool with xanthophylls extracted from corn distillers dry grain. *Coloration Technology*, **2016**, 132, 208-216	2	3
16	Enzymatic graft polymerization from cellulose acetoacetate: a versatile strategy for cellulose functionalization. *Cellulose*, **2021**, 28, 691-701	5.5	3
15	Making polymers colored and stiffer by dyed regenerated cellulose employing Pickering emulsions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 592, 124601	5.1	2
14	Synthesis of cross-linked polylactide poly(tetramethylene oxide) copolymers with enhanced toughness. *Polymer Bulletin*, **2019**, 76, 1531-1545	2.4	2
13	Effect of weak intermolecular interactions in micro/nanoscale polyphosphazenes and polyethylene terephthalate composites on flame retardancy. *Polymers for Advanced Technologies*,	3.2	2
12	Highly Stable and Nonflammable Hydrated Salt-Paraffin Shape-Memory Gels for Sustainable Building Technology. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 15442-15450	8.3	1
11	High-tensile regenerated cellulose films enabled by unexpected enhancement of cellulose dissolution in cryogenic aqueous phosphoric acid. *Carbohydrate Polymers*, **2022**, 277, 118878	10.3	1
10	Lightweight, Environmentally Friendly, and Underwater Superelastic 3D-Architectured Aerogels for Efficient Protein Separation. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11738-11747	8.3	1
9	Integrated Janus cellulosic composite with multiple thermal functions for personalized thermal management.. *Carbohydrate Polymers*, **2022**, 288, 119409	10.3	1
8	Morphology-Controlled Synthesis of Polyphosphazene-Based Micro- and Nano-Materials and Their Application as Flame Retardants. *Polymers*, **2022**, 14, 2072	4.5	1
7	High Yield Production of Chitin Nanocrystals via Hydrochloric Acid Vapor Pre-treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 128567	5.1	0
6	Rigid and conductive lightweight regenerated cellulose/carbon nanotubes/acrylonitrile butadiene styrene nanocomposites constructed via a Pickering emulsion process. *Journal of Applied Polymer Science*,51964	2.9	0
5	Engineering regenerated nanosilk to efficiently stabilize pickering emulsions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 635, 128065	5.1	0
4	Study on the effect of different dyeing systems on the interaction of multi-component reactive dyes by Raman spectroscopy. *Coloration Technology*, **2021**, 137, 520-529	2	0

3	growth of CuS NPs on 3D porous cellulose macrospheres as recyclable biocatalysts for organic dye degradation.. *RSC Advances*, **2021**, 11, 36554-36563	3.7
2	Robust, floatable, steam generator based on the graded porous polyimide film for efficient solar desalination. *Polymers for Advanced Technologies*, **2021**, 32, 3436-3445	3.2
1	Pickering Emulsions as Designer Platforms for Polymer-Based Hybrid Materials: Routes to Controlled Structures1-19	