

# Bijia Wang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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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.

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	High Yield Production of Chitin Nanocrystals via Hydrochloric Acid Vapor Pre-treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128567	5.1	0
109	High-tensile regenerated cellulose films enabled by unexpected enhancement of cellulose dissolution in cryogenic aqueous phosphoric acid. <i>Carbohydrate Polymers</i> , <b>2022</b> , 277, 118878	10.3	1
108	Engineering regenerated nanosilk to efficiently stabilize pickering emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 635, 128065	5.1	0
107	Integrated Janus cellulosic composite with multiple thermal functions for personalized thermal management.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 288, 119409	10.3	1
106	Morphology-Controlled Synthesis of Polyphosphazene-Based Micro- and Nano-Materials and Their Application as Flame Retardants. <i>Polymers</i> , <b>2022</b> , 14, 2072	4.5	1
105	growth of CuS NPs on 3D porous cellulose macrospheres as recyclable biocatalysts for organic dye degradation.. <i>RSC Advances</i> , <b>2021</b> , 11, 36554-36563	3.7	
104	Highly Stable and Nonflammable Hydrated Salt-Paraffin Shape-Memory Gels for Sustainable Building Technology. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 15442-15450	8.3	1
103	Robust, floatable, steam generator based on the graded porous polyimide film for efficient solar desalination. <i>Polymers for Advanced Technologies</i> , <b>2021</b> , 32, 3436-3445	3.2	
102	Acetone/Water Cosolvent Approach to Lignin Nanoparticles with Controllable Size and Their Applications for Pickering Emulsions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 5470-5480	8.3	8
101	Study on the effect of different dyeing systems on the interaction of multi-component reactive dyes by Raman spectroscopy. <i>Coloration Technology</i> , <b>2021</b> , 137, 520-529	2	0
100	Flexible textiles with polypyrrole deposited phase change microcapsules for efficient photothermal energy conversion and storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 224, 110985	6.4	15
99	Self-healing and acidochromic polyvinyl alcohol hydrogel reinforced by regenerated cellulose. <i>Carbohydrate Polymers</i> , <b>2021</b> , 255, 117331	10.3	7
98	Enzymatic graft polymerization from cellulose acetoacetate: a versatile strategy for cellulose functionalization. <i>Cellulose</i> , <b>2021</b> , 28, 691-701	5.5	3
97	Robust Fabrication of Fluorescent Cellulosic Materials via Hantzsch Reaction. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2000496	4.8	6
96	Synthetic semicrystalline cellulose oligomers as efficient Pickering emulsion stabilizers. <i>Carbohydrate Polymers</i> , <b>2021</b> , 254, 117445	10.3	8
95	High-energy storage graphene oxide modified phase change microcapsules from regenerated chitin Pickering Emulsion for photothermal conversion. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 222, 110924	6.4	11
94	A Nature-Inspired Monolithic Integrated Cellulose Aerogel-Based Evaporator for Efficient Solar Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10612-10622	9.5	20

93	A recyclable 3D g-C <sub>3</sub> N <sub>4</sub> based nanocellulose aerogel composite for photodegradation of organic pollutants. <i>Cellulose</i> , <b>2021</b> , 28, 3531-3547	5.5	5
92	Lightweight, Environmentally Friendly, and Underwater Superelastic 3D-Architected Aerogels for Efficient Protein Separation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 11738-11747	8.3	1
91	A study of the diffusion behaviour of reactive dyes in cellulose fibres using confocal Raman microscopy. <i>Coloration Technology</i> , <b>2020</b> , 136, 503-511	2	4
90	Multifaceted applications of cellulosic porous materials in environment, energy, and health. <i>Progress in Polymer Science</i> , <b>2020</b> , 106, 101253	29.6	31
89	Facile Fabrication of Robust and Stretchable Cellulose Nanofibers/Polyurethane Hybrid Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8977-8985	8.3	17
88	Durable and Effective Antibacterial Cotton Fabric Collaborated with Polypropylene Tissue Mesh for Abdominal Wall Defect Repair. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3868-3877	5.5	7
87	Cellulosic sponges with pH responsive wettability for efficient oil-water separation. <i>Carbohydrate Polymers</i> , <b>2020</b> , 237, 116133	10.3	41
86	Microencapsulated phase change material via Pickering emulsion stabilized by graphene oxide for photothermal conversion. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 7731-7742	4.3	25
85	A shape-stable phase change composite prepared from cellulose nanofiber/polypyrrole/polyethylene glycol for electric-thermal energy conversion and storage. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125950	14.7	25
84	Making polymers colored and stiffer by dyed regenerated cellulose employing Pickering emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 592, 124601	5.1	2
83	Polyphosphazene microspheres modified with transition metal hydroxystannate for enhancing the flame retardancy of polyethylene terephthalate. <i>Polymers for Advanced Technologies</i> , <b>2020</b> , 31, 1194-1207	3.2	10
82	Boron nitride microsheets bridged with reduced graphene oxide as scaffolds for multifunctional shape stabilized phase change materials. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 209, 110441	6.4	27
81	Rheology of regenerated cellulose suspension and influence of sodium alginate. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 148, 811-816	7.9	14
80	Cellulosic scaffolds doped with boron nitride nanosheets for shape-stabilized phase change composites with enhanced thermal conductivity. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 148, 627-634	7.9	22
79	A naked-eye detection polyvinyl alcohol/cellulose-based pH sensor for intelligent packaging. <i>Carbohydrate Polymers</i> , <b>2020</b> , 233, 115859	10.3	42
78	A facile method for fabricating color adjustable multifunctional cotton fabrics with solid solution BiOBr <sub>11</sub> nanosheets. <i>Cellulose</i> , <b>2020</b> , 27, 3517-3530	5.5	5
77	Smart cotton fabric screen-printed with viologen polymer: photochromic, thermochromic and ammonia sensing. <i>Cellulose</i> , <b>2020</b> , 27, 2939-2952	5.5	17
76	Facile fabrication of carboxymethyl chitosan/paraffin coated carboxymethylated cotton fabric with asymmetric wettability for hemostatic wound dressing. <i>Cellulose</i> , <b>2020</b> , 27, 3443-3453	5.5	17

75	Cellulose nanocrystals-composited poly (methyl methacrylate) encapsulated n-eicosane via a Pickering emulsion-templating approach for energy storage. <i>Carbohydrate Polymers</i> , <b>2020</b> , 234, 115934	10.3	14
74	Preparation and characterization of carboxymethylated cotton fabrics as hemostatic wound dressing. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 160, 18-25	7.9	10
73	Real-time monitoring of multicomponent reactive dye adsorption on cotton fabrics by Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 230, 118051	4.4	4
72	Shape-stabilized hydrated salt/paraffin composite phase change materials for advanced thermal energy storage and management. <i>Chemical Engineering Journal</i> , <b>2020</b> , 385, 123958	14.7	36
71	Antibacterial thyme oil-loaded organo-hydrogels utilizing cellulose acetoacetate as reactive polymer emulsifier. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 147, 18-23	7.9	10
70	Transforming commercial regenerated cellulose yarns into multifunctional wearable electronic textiles. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1309-1318	7.1	16
69	Lignin assisted Pickering emulsion polymerization to microencapsulate 1-tetradecanol for thermal management. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 146, 1-8	7.9	12
68	An autonomously healable, highly stretchable and cyclically compressible, wearable hydrogel as a multimodal sensor. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 1327-1336	4.9	16
67	Flame-retardant poly (ethylene terephthalate) enabled by a novel melamine polyphosphate nanowire. <i>Polymers for Advanced Technologies</i> , <b>2020</b> , 31, 795-806	3.2	8
66	Antibacterial phase change microcapsules obtained with lignin as the Pickering stabilizer and the reducing agent for silver. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 144, 624-631	7.9	16
65	The effect of the degree of substitution on the solubility of cellulose acetoacetates in water: A molecular dynamics simulation and density functional theory study. <i>Carbohydrate Research</i> , <b>2020</b> , 496, 108134	2.9	3
64	Calcium functioned carboxymethylated cotton fabric for hemostatic wound dressing. <i>Cellulose</i> , <b>2020</b> , 27, 10139-10149	5.5	4
63	Sponges with Janus Character from Nanocellulose: Preparation and Applications in the Treatment of Hemorrhagic Wounds. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901796	10.1	14
62	Mechanically flexible, waterproof, breathable cellulose/polypyrrole/polyurethane composite aerogels as wearable heaters for personal thermal management. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126222	14.7	32
61	Fabrication of lignin/poly(3-hydroxybutyrate) nanocomposites with enhanced properties via a Pickering emulsion approach. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 3078-3087	7.9	10
60	Stable microencapsulated phase change materials with ultrahigh payload for efficient cooling of mobile electronic devices. <i>Energy Conversion and Management</i> , <b>2020</b> , 223, 113478	10.6	20
59	Functionalization of cotton fabric with bismuth oxyiodide nanosheets: applications for photodegrading organic pollutants, UV shielding and self-cleaning. <i>Cellulose</i> , <b>2019</b> , 26, 2873-2884	5.5	16
58	Durable antibacterial and hydrophobic cotton fabrics utilizing enamine bonds. <i>Carbohydrate Polymers</i> , <b>2019</b> , 211, 173-180	10.3	48

57	High-performance polypyrrole coated knitted cotton fabric electrodes for wearable energy storage. <i>Organic Electronics</i> , <b>2019</b> , 74, 59-68	3.5	19
56	Enhancing electrical conductivity and electrical stability of polypyrrole-coated cotton fabrics via surface microdissolution. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47515	2.9	8
55	Synthesis of cross-linked polylactide-poly(tetramethylene oxide) copolymers with enhanced toughness. <i>Polymer Bulletin</i> , <b>2019</b> , 76, 1531-1545	2.4	2
54	Pickering emulsion process assisted construction of regenerated chitin reinforced poly (lactic acid) blends. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 140, 10-16	7.9	6
53	Multi-responsive, self-healing and adhesive PVA based hydrogels induced by the ultrafast complexation of Fe ions. <i>Soft Matter</i> , <b>2019</b> , 15, 7404-7411	3.6	17
52	Nanocellulose sponges as efficient continuous flow reactors. <i>Carbohydrate Polymers</i> , <b>2019</b> , 224, 115184	10.3	3
51	Regenerated cellulose-dispersed polystyrene composites enabled via Pickering emulsion polymerization. <i>Carbohydrate Polymers</i> , <b>2019</b> , 223, 115079	10.3	16
50	Poly(lactic acid)/cellulose nanocrystal composites via the Pickering emulsion approach: Rheological, thermal and mechanical properties. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 137, 197-204	7.9	38
49	Catalytic MOF-loaded cellulose sponge for rapid degradation of chemical warfare agents simulant. <i>Carbohydrate Polymers</i> , <b>2019</b> , 213, 184-191	10.3	36
48	The comb-like modified styrene-maleic anhydride copolymer dispersant for disperse dyes. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47330	2.9	10
47	Oil-in-water Pickering emulsions from three plant-derived regenerated celluloses. <i>Carbohydrate Polymers</i> , <b>2019</b> , 207, 755-763	10.3	19
46	High-performance textile electrodes for wearable electronics obtained by an improved in situ polymerization method. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 897-907	14.7	55
45	Bio-based polymer colorants from nonaqueous reactive dyeing of regenerated cellulose for plastics and textiles. <i>Carbohydrate Polymers</i> , <b>2019</b> , 206, 734-741	10.3	13
44	Biginelli reaction on cellulose acetoacetate: a new approach for versatile cellulose derivatives. <i>Carbohydrate Polymers</i> , <b>2019</b> , 209, 223-229	10.3	15
43	Poly(lactic acid)/lignin blends prepared with the Pickering emulsion template method. <i>European Polymer Journal</i> , <b>2019</b> , 110, 378-384	5.2	41
42	Copper-loaded nanocellulose sponge as a sustainable catalyst for regioselective hydroboration of alkynes. <i>Carbohydrate Polymers</i> , <b>2018</b> , 191, 17-24	10.3	24
41	Flexible cellulose-based thermoelectric sponge towards wearable pressure sensor and energy harvesting. <i>Chemical Engineering Journal</i> , <b>2018</b> , 338, 1-7	14.7	62
40	Facile preparation of polysaccharide-based sponges and their potential application in wound dressing. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 634-640	7.3	37

39	Facile fabrication of thiol-modified cellulose sponges for adsorption of Hg <sup>2+</sup> from aqueous solutions. <i>Cellulose</i> , <b>2018</b> , 25, 3025-3035	5.5	17
38	Improving Application Performance of in situ Polymerization and Crosslinking System of Maleic Acid/Itaconic Acid for Cotton Fabric. <i>Fibers and Polymers</i> , <b>2018</b> , 19, 281-288	2	6
37	Biodegradable regenerated cellulose-dispersed composites with improved properties via a pickering emulsion process. <i>Carbohydrate Polymers</i> , <b>2018</b> , 179, 86-92	10.3	50
36	Temperature-responsive cellulose sponge with switchable pore size: Application as a water flow manipulator. <i>Materials Letters</i> , <b>2018</b> , 210, 337-340	3.3	10
35	Fabrication of Thermoresponsive Polymer-Functionalized Cellulose Sponges: Flexible Porous Materials for Stimuli-Responsive Catalytic Systems. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27831-27839	9.5	22
34	A light-weight and high-efficacy antibacterial nanocellulose-based sponge via covalent immobilization of gentamicin. <i>Carbohydrate Polymers</i> , <b>2018</b> , 200, 595-601	10.3	27
33	Durable flame retardant and antibacterial finishing on cotton fabrics with cyclotriphosphazene/polydopamine/silver nanoparticles hybrid coatings. <i>Applied Surface Science</i> , <b>2018</b> , 435, 1337-1343	6.7	72
32	Self-healing and injectable polysaccharide hydrogels with tunable mechanical properties. <i>Cellulose</i> , <b>2018</b> , 25, 559-571	5.5	49
31	Chemical crosslinking reinforced flexible cellulose nanofiber-supported cryogel. <i>Cellulose</i> , <b>2018</b> , 25, 573-582	5.5	37
30	Cellulose-rich oleogels prepared with an emulsion-templated approach. <i>Food Hydrocolloids</i> , <b>2018</b> , 77, 460-464	10.6	58
29	Precipitated silica agglomerates reinforced with cellulose nanofibrils as adsorbents for heavy metals.. <i>RSC Advances</i> , <b>2018</b> , 8, 33129-33137	3.7	9
28	A heterogeneous binary solvent system for recyclable reactive dyeing of cotton fabrics. <i>Cellulose</i> , <b>2018</b> , 25, 7381-7392	5.5	7
27	A waterborne bio-based polymer pigment: colored regenerated cellulose suspension from waste cotton fabrics. <i>Cellulose</i> , <b>2018</b> , 25, 7369-7379	5.5	12
26	In Vitro Digestion of Oil-in-Water Emulsions Stabilized by Regenerated Chitin. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 12344-12352	5.7	29
25	Enamine Approach for Versatile and Reversible Functionalization on Cellulose Related Porous Sponges. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9028-9036	8.3	17
24	Cellulose Sponge Supported Palladium Nanoparticles as Recyclable Cross-Coupling Catalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17155-17162	9.5	99
23	Facile synthesis of cellulose derivatives based on cellulose acetoacetate. <i>Carbohydrate Polymers</i> , <b>2017</b> , 170, 117-123	10.3	21
22	Preparation and characterization of biodegradable poly( $\epsilon$ -caprolactone) self-reinforced composites and their crystallization behavior. <i>Polymer International</i> , <b>2017</b> , 66, 1555-1563	3.3	6



21	Cellulose nanofibril-reinforced biodegradable polymer composites obtained via a Pickering emulsion approach. <i>Cellulose</i> , <b>2017</b> , 24, 3313-3322	5.5	42
20	Thiol-ene click reaction on cellulose sponge and its application for oil/water separation. <i>RSC Advances</i> , <b>2017</b> , 7, 20147-20151	3.7	33
19	Facile fabrication of redox/pH dual stimuli responsive cellulose hydrogel. <i>Carbohydrate Polymers</i> , <b>2017</b> , 176, 299-306	10.3	59
18	Facile synthesis of microfibrillated cellulose/organosilicon/polydopamine composite sponges with flame retardant properties. <i>Cellulose</i> , <b>2017</b> , 24, 3815-3823	5.5	41
17	An environmentally responsible polyester dyeing technology using liquid paraffin. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 987-994	10.3	37
16	Green Finishing of Cotton Fabrics Using a Xylitol-Extended Citric Acid Cross-linking System on a Pilot Scale. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1131-1138	8.3	17
15	Characterization of dimethyl sulfoxide-treated wool and enhancement of reactive wool dyeing in non-aqueous medium. <i>Textile Research Journal</i> , <b>2016</b> , 86, 533-542	1.7	10
14	Antioxidant-assisted coloration of wool with xanthophylls extracted from corn distillers' dry grain. <i>Coloration Technology</i> , <b>2016</b> , 132, 208-216	2	3
13	Hydrolysis-free and fully recyclable reactive dyeing of cotton in green, non-nucleophilic solvents for a sustainable textile industry. <i>Journal of Cleaner Production</i> , <b>2015</b> , 107, 550-556	10.3	38
12	Molecular surface area based predictive models for the adsorption and diffusion of disperse dyes in polylactic acid matrix. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 458, 22-31	9.3	5
11	Comprehensive Study on Cellulose Swelling for Completely Recyclable Nonaqueous Reactive Dyeing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 2439-2446	3.9	18
10	Sustainable and Hydrolysis-Free Dyeing Process for Polylactic Acid Using Nonaqueous Medium. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1039-1046	8.3	26
9	Improving wet strength of soy protein films using oxidized sucrose. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	4
8	Quantitative analysis of citric acid/sodium hypophosphite modified cotton by HPLC and conductometric titration. <i>Carbohydrate Polymers</i> , <b>2015</b> , 121, 92-8	10.3	23
7	Heterogeneous Chemical Modification of Cotton Cellulose with Vinyl Sulfone Dyes in Non-Nucleophilic Organic Solvents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 15802-15810	3.9	22
6	Durable Press Finishing of Cotton Fabrics with Citric Acid: Enhancement of Whiteness and Wrinkle Recovery by Polyol Extenders. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 16118-16127	3.9	39
5	Rigid and conductive lightweight regenerated cellulose/carbon nanotubes/acrylonitrile-butadiene-styrene nanocomposites constructed via a Pickering emulsion process. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 108, 5196-5204	2.9	0
4	Flexible and Robust Bacterial Cellulose-Based Ionogels with High Thermoelectric Properties for Low-Grade Heat Harvesting. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2107-2115	15.6	8

3	Synthesis and application of poly (cyclotriphosphazene-resveratrol) microspheres for enhancing flame retardancy of poly (ethylene terephthalate). <i>Polymers for Advanced Technologies</i> ,	3.2	3
2	Pickering Emulsions as Designer Platforms for Polymer-Based Hybrid Materials: Routes to Controlled Structures <sup>1-19</sup>		
1	Effect of weak intermolecular interactions in micro/nanoscale polyphosphazenes and polyethylene terephthalate composites on flame retardancy. <i>Polymers for Advanced Technologies</i> ,	3.2	2