

Shiyan Chen

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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.

75
papers

3,406
citations

33
h-index

57
g-index

81
ext. papers

4,049
ext. citations

8.3
avg, IF

5.39
L-index

#	Paper	IF	Citations
75	Functionalized bacterial cellulose derivatives and nanocomposites. <i>Carbohydrate Polymers</i> , 2014 , 101, 1043-60	10.3	290
74	Flexible electrically conductive nanocomposite membrane based on bacterial cellulose and polyaniline. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8453-7	3.4	257
73	Adsorption of Cu(II) and Pb(II) onto diethylenetriamine-bacterial cellulose. <i>Carbohydrate Polymers</i> , 2009 , 75, 110-114	10.3	217
72	Carboxymethylated-bacterial cellulose for copper and lead ion removal. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1355-9	12.8	196
71	In situ synthesis of silver chloride nanoparticles into bacterial cellulose membranes. <i>Materials Science and Engineering C</i> , 2009 , 29, 1216-1219	8.3	133
70	In situ synthesis of CdS nanoparticles on bacterial cellulose nanofibers. <i>Carbohydrate Polymers</i> , 2009 , 76, 509-512	10.3	131
69	Biosynthesis of bacterial cellulose/multi-walled carbon nanotubes in agitated culture. <i>Carbohydrate Polymers</i> , 2008 , 74, 659-665	10.3	113
68	Macrofibers with High Mechanical Performance Based on Aligned Bacterial Cellulose Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20330-20339	9.5	93
67	Solvent-free acetylation of bacterial cellulose under moderate conditions. <i>Carbohydrate Polymers</i> , 2011 , 83, 1575-1581	10.3	92
66	Improving the mechanical properties of cellulose diacetate fibers via using an ionic liquid as processing solvent. <i>RSC Advances</i> , 2016 , 6, 1-7	3.7	79
65	Formaldehyde sensors based on nanofibrous polyethyleneimine/bacterial cellulose membranes coated quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 554-559	8.5	75
64	Structural and functional evaluation of oxygenating keratin/silk fibroin scaffold and initial assessment of their potential for urethral tissue engineering. <i>Biomaterials</i> , 2016 , 84, 99-110	15.6	73
63	Facile synthesis of ZnO nanoparticles based on bacterial cellulose. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 170, 88-92	3.1	70
62	Polyol mediated synthesis of ZnO nanoparticles templated by bacterial cellulose. <i>Carbohydrate Polymers</i> , 2013 , 92, 1953-9	10.3	68
61	3D printing of biomimetic vasculature for tissue regeneration. <i>Materials Horizons</i> , 2019 , 6, 1197-1206	14.4	62
60	Flexible luminescent CdSe/bacterial cellulose nanocomposite membranes. <i>Carbohydrate Polymers</i> , 2012 , 88, 173-178	10.3	60
59	Facilely green synthesis of silver nanoparticles into bacterial cellulose. <i>Cellulose</i> , 2015 , 22, 373-383	5.5	59

58	Highly stable and sensitive humidity sensors based on quartz crystal microbalance coated with bacterial cellulose membrane. <i>Sensors and Actuators B: Chemical</i> , 2011 , 159, 301-306	8.5	57
57	Preparation and properties of photochromic bacterial cellulose nanofibrous membranes. <i>Cellulose</i> , 2011 , 18, 655-661	5.5	55
56	Facile fabrication of flexible magnetic nanohybrid membrane with amphiphobic surface based on bacterial cellulose. <i>Carbohydrate Polymers</i> , 2011 , 86, 1760-1767	10.3	54
55	Polypyrrole@TEMPO-oxidized bacterial cellulose/reduced graphene oxide macrofibers for flexible all-solid-state supercapacitors. <i>Chemical Engineering Journal</i> , 2019 , 368, 1022-1032	14.7	52
54	Silver Nanowire-Bacterial Cellulose Composite Fiber-Based Sensor for Highly Sensitive Detection of Pressure and Proximity. <i>ACS Nano</i> , 2020 , 14, 15428-15439	16.7	50
53	TEMPO-oxidized bacterial cellulose nanofibers-supported gold nanoparticles with superior catalytic properties. <i>Carbohydrate Polymers</i> , 2017 , 160, 34-42	10.3	49
52	Bacterial Cellulose-Based Biomimetic Nanofibrous Scaffold with Muscle Cells for Hollow Organ Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 19-29	5.5	46
51	Synthesis of flexible magnetic nanohybrid based on bacterial cellulose under ultrasonic irradiation. <i>Materials Science and Engineering C</i> , 2013 , 33, 2407-12	8.3	46
50	Mechanically robust reduced graphene oxide/bacterial cellulose film obtained via biosynthesis for flexible supercapacitor. <i>Chemical Engineering Journal</i> , 2019 , 360, 829-837	14.7	46
49	Flexible conductive polypyrrole nanocomposite membranes based on bacterial cellulose with amphiphobicity. <i>Carbohydrate Polymers</i> , 2015 , 117, 230-235	10.3	45
48	Color-tunable luminescent macrofibers based on CdTe QDs-loaded bacterial cellulose nanofibers for pH and glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 254, 110-119	8.5	44
47	In situ fabrication of a microporous bacterial cellulose/potato starch composite scaffold with enhanced cell compatibility. <i>Cellulose</i> , 2014 , 21, 1823-1835	5.5	42
46	Kinetic and thermodynamic studies of adsorption of Cu ²⁺ and Pb ²⁺ onto amidoximated bacterial cellulose. <i>Polymer Bulletin</i> , 2009 , 63, 283-297	2.4	41
45	A 3D-printable TEMPO-oxidized bacterial cellulose/alginate hydrogel with enhanced stability via nanoclay incorporation. <i>Carbohydrate Polymers</i> , 2020 , 238, 116207	10.3	39
44	Biomimetic mineralization synthesis of calcium-deficient carbonate-containing hydroxyapatite in a three-dimensional network of bacterial cellulose. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 285-290	3.5	39
43	In vitro biodegradability of bacterial cellulose by cellulase in simulated body fluid and compatibility in vivo. <i>Cellulose</i> , 2016 , 23, 3187-3198	5.5	33
42	Use of heparinized bacterial cellulose based scaffold for improving angiogenesis in tissue regeneration. <i>Carbohydrate Polymers</i> , 2018 , 181, 948-956	10.3	32
41	Hierarchical core-sheath polypyrrole@carbon nanotube/bacterial cellulose macrofibers with high electrochemical performance for all-solid-state supercapacitors. <i>Electrochimica Acta</i> , 2018 , 283, 1578-1588	6.7	32

40	A smart bilayered scaffold supporting keratinocytes and muscle cells in micro/nano-scale for urethral reconstruction. <i>Theranostics</i> , 2018 , 8, 3153-3163	12.1	31
39	Porous bacterial cellulose prepared by a facile surfactant-assisted foaming method in azodicarbonamide-NaOH aqueous solution. <i>Materials Letters</i> , 2012 , 81, 131-134	3.3	28
38	Zn-loaded TOBC nanofiber-reinforced biomimetic calcium alginate hydrogel for antibacterial wound dressing. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 235-242	7.9	26
37	Free-standing zirconia nanofibrous membranes with robust flexibility for corrosive liquid filtration. <i>RSC Advances</i> , 2014 , 4, 2756-2763	3.7	25
36	All-natural injectable hydrogel with self-healing and antibacterial properties for wound dressing. <i>Cellulose</i> , 2020 , 27, 2637-2650	5.5	24
35	Improved cell infiltration and vascularization of three-dimensional bacterial cellulose nanofibrous scaffolds by template biosynthesis. <i>RSC Advances</i> , 2016 , 6, 42229-42239	3.7	23
34	Scalable, self-cleaning and self-floating bi-layered bacterial cellulose biofoam for efficient solar evaporator with photocatalytic purification. <i>Desalination</i> , 2021 , 500, 114899	10.3	23
33	Bacterial cellulose/gelatin scaffold loaded with VEGF-silk fibroin nanoparticles for improving angiogenesis in tissue regeneration. <i>Cellulose</i> , 2017 , 24, 5013-5024	5.5	22
32	Urethra-inspired biomimetic scaffold: A therapeutic strategy to promote angiogenesis for urethral regeneration in a rabbit model. <i>Acta Biomaterialia</i> , 2020 , 102, 247-258	10.8	22
31	Simultaneous 3D cell distribution and bioactivity enhancement of bacterial cellulose (BC) scaffold for articular cartilage tissue engineering. <i>Cellulose</i> , 2019 , 26, 2513-2528	5.5	21
30	Synthesis and Non-isothermal Crystallization Behavior of PET/Surface-treated TiO ₂ Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2008 , 47, 1117-1129	1.4	20
29	Thermal behavior of cellulose diacetate melt using ionic liquids as plasticizers. <i>RSC Advances</i> , 2015 , 5, 901-907	3.7	19
28	A strategy of tailoring polymorphs and nanostructures to construct self-reinforced nonswelling high-strength bacterial cellulose hydrogels. <i>Nanoscale</i> , 2019 , 11, 15347-15358	7.7	17
27	Patterned bacterial cellulose wound dressing for hypertrophic scar inhibition behavior. <i>Cellulose</i> , 2018 , 25, 6705-6717	5.5	17
26	ZnS/Bacterial Cellulose/Epoxy Resin (ZnS/BC/E56) Nanocomposites with Good Transparency and Flexibility. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 153-157	9.1	16
25	Top-down peeling bacterial cellulose to high strength ultrathin films and multifunctional fibers. <i>Chemical Engineering Journal</i> , 2020 , 391, 123527	14.7	16
24	Oppositely charged aligned bacterial cellulose biofilm with nanofluidic channels for osmotic energy harvesting. <i>Nano Energy</i> , 2021 , 80, 105554	17.1	15
23	Color-tunable luminescent CdTe quantum dot membranes based on bacterial cellulose (BC) and application in ion detection. <i>RSC Advances</i> , 2015 , 5, 55756-55761	3.7	14

22	Scalable, Flexible, Durable, and Salt-Tolerant CuS/Bacterial Cellulose Gel Membranes for Efficient Interfacial Solar Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9017-9026	8.3	14
21	Solution-processed and air-stable n-type organic thin-film transistors based on thiophene-fused dicyanoquinonediimine (DCNQI) derivatives. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3994-4000	9.5	13
20	TEMPO-Oxidized Bacterial Cellulose Nanofibers/Graphene Oxide Fibers for Osmotic Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22416-22425	9.5	13
19	An air-stable microwire radial heterojunction with high photoconductivity based on a new building block. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5933-5939	7.1	12
18	Highly Mineralized Biomimetic Polysaccharide Nanofiber Materials Using Enzymatic Mineralization. <i>Biomacromolecules</i> , 2020 , 21, 2176-2186	6.9	10
17	Tuning the Charge Transport Property of Naphthalene Diimide Derivatives by Changing the Substituted Position of Fluorine Atom on Molecular Backbone. <i>Chinese Journal of Chemistry</i> , 2014 , 32, 1057-1064	4.9	9
16	Zinc sulfide nanoparticles template by bacterial cellulose and their optical properties. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	8
15	Preparation of amidoximated bacterial cellulose and its adsorption mechanism for Cu ²⁺ and Pb ²⁺ . <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA	2.9	8
14	Durable and Flexible Bio-assembled RGO-BC/BC Bilayer Electrodes for Pressure Sensing. <i>Advanced Fiber Materials</i> , 2021 , 3, 128-137	10.9	8
13	Anisotropic bacterial cellulose hydrogels with tunable high mechanical performances, non-swelling and bionic nanofluidic ion transmission behavior. <i>Nanoscale</i> , 2021 , 13, 8126-8136	7.7	8
12	High Sensitivity Polyurethane-Based Fiber Strain Sensor with Porous Structure via Incorporation of Bacterial Cellulose Nanofibers. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001235	6.4	7
11	Hybrid scaffolds enhanced by nanofibers improve in vitro cell behavior for tissue regeneration. <i>Cellulose</i> , 2018 , 25, 7113-7125	5.5	5
10	Spinning continuous high-strength bacterial cellulose hydrogel fibers for multifunctional bioelectronic interfaces. <i>Journal of Materials Chemistry A</i> ,	13	5
9	High-Strength Superstretchable Helical Bacterial Cellulose Fibers with a "Self-Fiber-Reinforced Structure". <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1545-1554	9.5	4
8	Flexible X-ray radiation protection membrane PVA/pb(NO ₃) ₂ microcapsule composites supported by bacterial cellulose. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	4
7	Scalable bacterial cellulose biofilms with improved ion transport for high osmotic power generation. <i>Nano Energy</i> , 2021 , 88, 106275	17.1	4
6	A simple method for controlling the bacterial cellulose nanofiber density in 3D scaffolds and its effect on the cell behavior. <i>Cellulose</i> , 2019 , 26, 7411-7421	5.5	3
5	Bacterial cellulose nanofiber reinforced poly(glycerol-sebacate) biomimetic matrix for 3D cell culture. <i>Cellulose</i> , 2021 , 28, 8483-8492	5.5	3

4	Continuous and integrated PEDOT@Bacterial cellulose/CNT hybrid helical fiber with reinforced cement-sand structure for self-stretchable solid supercapacitor. <i>Chemical Engineering Journal</i> , 2022 , 427, 131904	14.7	3
3	Toward continuous high-performance bacterial cellulose macrofibers by implementing grading-stretching in spinning.. <i>Carbohydrate Polymers</i> , 2022 , 282, 119133	10.3	1
2	Bacterial cellulose nanofiber distribution on gelatin and silk fibroin scaffolds and the cell behavior. <i>Cellulose</i> , 2021 , 28, 91-102	5.5	1
1	Hydrophobic, breathable cellulose nonwoven fabrics for disposable hygiene applications.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119367	10.3	0