

Cheng Zhong

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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

2,037
citations

27
h-index

44
g-index

80
ext. papers

2,672
ext. citations

6.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
75	Optimization of enzymatic hydrolysis and ethanol fermentation from AFEX-treated rice straw. <i>Applied Microbiology and Biotechnology</i> , 2009 , 84, 667-76	5.7	138
74	Biosynthesis of spherical Fe ₃ O ₄ /bacterial cellulose nanocomposites as adsorbents for heavy metal ions. <i>Carbohydrate Polymers</i> , 2011 , 86, 1558-1564	10.3	135
73	Synthesis and characterization of antibacterial carboxymethyl Chitosan/ZnO nanocomposite hydrogels. <i>International Journal of Biological Macromolecules</i> , 2016 , 88, 273-9	7.9	106
72	Development of bacterial cellulose/chitosan based semi-interpenetrating hydrogels with improved mechanical and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 380-387	7.9	104
71	Development and antibacterial activities of bacterial cellulose/graphene oxide-CuO nanocomposite films. <i>Carbohydrate Polymers</i> , 2020 , 229, 115456	10.3	82
70	Preparation, characterization and antibacterial applications of carboxymethyl chitosan/CuO nanocomposite hydrogels. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 690-695	7.9	75
69	Recent Advances in Antimicrobial Hydrogels Containing Metal Ions and Metals/Metal Oxide Nanoparticles. <i>Polymers</i> , 2017 , 9,	4.5	72
68	Facile fabrication of moldable antibacterial carboxymethyl chitosan supramolecular hydrogels cross-linked by metal ions complexation. <i>Carbohydrate Polymers</i> , 2017 , 165, 455-461	10.3	71
67	Metabolic flux analysis of <i>Gluconacetobacter xylinus</i> for bacterial cellulose production. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 6189-99	5.7	70
66	A facile construction of bacterial cellulose/ZnO nanocomposite films and their photocatalytic and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 692-700	7.9	62
65	Injectable self-healing carboxymethyl chitosan-zinc supramolecular hydrogels and their antibacterial activity. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 1233-1239	7.9	57
64	Applications of cellulose and chitin/chitosan derivatives and composites as antibacterial materials: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 1989-2006	5.7	56
63	Nanocomposite hydrogels as multifunctional systems for biomedical applications: Current state and perspectives. <i>Composites Part B: Engineering</i> , 2020 , 200, 108208	10	54
62	Metabolomic analysis of antimicrobial mechanisms of ϵ -poly-L-lysine on <i>Saccharomyces cerevisiae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 4454-65	5.7	53
61	Preparation and characterization of a novel bacterial cellulose/chitosan bio-hydrogel. <i>Nanomaterials and Nanotechnology</i> , 2017 , 7, 184798041770717	2.9	52
60	Preparation and characterization of a photocatalytic antibacterial material: Graphene oxide/TiO ₂ /bacterial cellulose nanocomposite. <i>Carbohydrate Polymers</i> , 2017 , 174, 1078-1086	10.3	52
59	Surfactant-free emulsions stabilized by tempo-oxidized bacterial cellulose. <i>Carbohydrate Polymers</i> , 2016 , 151, 907-915	10.3	52

58	Effects of Feed to Inoculum Ratio, Co-digestion, and Pretreatment on Biogas Production from Anaerobic Digestion of Cotton Stalk. <i>Energy & Fuels</i> , 2014 , 28, 3157-3166	4.1	42
57	Enhanced bacterial cellulose production by <i>Gluconacetobacter xylinus</i> via expression of <i>Vitreoscilla</i> hemoglobin and oxygen tension regulation. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 1155-1165	5.7	41
56	Conversion of lignocellulosic agave residues into liquid biofuels using an AFEX-based biorefinery. <i>Biotechnology for Biofuels</i> , 2018 , 11, 7	7.8	38
55	Improvement of antimicrobial activity of graphene oxide/bacterial cellulose nanocomposites through the electrostatic modification. <i>Carbohydrate Polymers</i> , 2016 , 136, 1152-60	10.3	36
54	Sustainable, superhydrophobic membranes based on bacterial cellulose for gravity-driven oil/water separation. <i>Carbohydrate Polymers</i> , 2021 , 253, 117220	10.3	34
53	Biofuels in China: past, present and future. <i>Biofuels, Bioproducts and Biorefining</i> , 2010 , 4, 326-342	5.3	33
52	Complete genome analysis of <i>Gluconacetobacter xylinus</i> CGMCC 2955 for elucidating bacterial cellulose biosynthesis and metabolic regulation. <i>Scientific Reports</i> , 2018 , 8, 6266	4.9	30
51	Rheological behaviors of Pickering emulsions stabilized by TEMPO-oxidized bacterial cellulose. <i>Carbohydrate Polymers</i> , 2019 , 215, 263-271	10.3	28
50	Revealing differences in metabolic flux distributions between a mutant strain and its parent strain <i>Gluconacetobacter xylinus</i> CGMCC 2955. <i>PLoS ONE</i> , 2014 , 9, e98772	3.7	28
49	Metabolomic profiling coupled with metabolic network reveals differences in <i>Gluconacetobacter xylinus</i> from static and agitated cultures. <i>Biochemical Engineering Journal</i> , 2015 , 101, 85-98	4.2	27
48	Aggregation-induced emission-active amino acid/berberine hydrogels with enhanced photodynamic antibacterial and anti-biofilm activity. <i>Chemical Engineering Journal</i> , 2021 , 413, 127542	14.7	27
47	Facile synthesis of bacterial cellulose and polyethyleneimine based hybrid hydrogels for antibacterial applications. <i>Cellulose</i> , 2020 , 27, 369-383	5.5	23
46	Continuous production of antibacterial carboxymethyl chitosan-zinc supramolecular hydrogel fiber using a double-syringe injection device. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 252-261	7.9	23
45	Alkali-Based Pretreatment-Facilitated Lignin Valorization: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 16923-16938	3.9	22
44	Reusable ternary PVA films containing bacterial cellulose fibers and ϵ -polylysine with improved mechanical and antibacterial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 183, 110486	6	21
43	Predictive analysis of beer quality by correlating sensory evaluation with higher alcohol and ester production using multivariate statistics methods. <i>Food Chemistry</i> , 2014 , 161, 376-82	8.5	21
42	Designing of bacterial cellulose-based superhydrophilic/underwater superoleophobic membrane for oil/water separation. <i>Carbohydrate Polymers</i> , 2021 , 257, 117611	10.3	21
41	Enhanced Bioconversion of Cellobiose by Industrial <i>Saccharomyces cerevisiae</i> Used for Cellulose Utilization. <i>Frontiers in Microbiology</i> , 2016 , 7, 241	5.7	21

40	Fractionation of corn stover by two-step pretreatment for production of ethanol, furfural, and lignin. <i>Energy</i> , 2020 , 195, 117076	7.9	19
39	Structure-Dependent Antibacterial Activity of Amino Acid-Based Supramolecular Hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 193, 111099	6	18
38	Effects of Ionic Liquid 1-Ethyl-3-Methylimidazolium Diethylphosphate on Cellulase Produced by <i>Paenibacillus</i> sp. LLZ1. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4922-4926	8.3	18
37	Facile Incorporation of Silver Nanoparticles into Quaternized Poly(2-(Dimethylamino)Ethyl Methacrylate) Brushes as Bifunctional Antibacterial Coatings. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700069	3.9	15
36	Ethylenediamine pretreatment of corn stover facilitates high gravity fermentation with low enzyme loading. <i>Bioresource Technology</i> , 2018 , 267, 227-234	11	14
35	Cellulose-based special wetting materials for oil/water separation: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 185, 890-906	7.9	14
34	Bacterial cellulose/hyaluronic acid composite hydrogels with improved viscoelastic properties and good thermodynamic stability. <i>Plastics, Rubber and Composites</i> , 2018 , 47, 165-175	1.5	13
33	Metabolic Investigation in <i>Gluconacetobacter xylinus</i> and Its Bacterial Cellulose Production under a Direct Current Electric Field. <i>Frontiers in Microbiology</i> , 2016 , 7, 331	5.7	11
32	Fabrication of Bacterial Cellulose-Based Dressings for Promoting Infected Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32716-32728	9.5	11
31	Tailoring bacterial cellulose structure through CRISPR interference-mediated downregulation of galU in <i>Komagataeibacter xylinus</i> CGMCC 2955. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 2165-2176	4.9	9
30	Chemical Characterization and Nutritional Analysis of Protein Isolates from <i>Caragana korshinskii</i> Kom. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 3217-3222	5.7	9
29	Enhancing Medium-Chain Fatty Acid Ethyl Ester Production During Beer Fermentation Through EEB1 and ETR1 Overexpression in <i>Saccharomyces pastorianus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 5607-5613	5.7	8
28	Oriented bacterial cellulose-glass fiber nanocomposites with enhanced tensile strength through electric field. <i>Fibers and Polymers</i> , 2017 , 18, 1408-1412	2	7
27	A Lambda Red and FLP/FRT-Mediated Site-Specific Recombination System in and Its Application to Enhance the Productivity of Bacterial Cellulose. <i>ACS Synthetic Biology</i> , 2020 , 9, 3171-3180	5.7	7
26	Study on community structure of microbial consortium for the degradation of viscose fiber wastewater. <i>Bioresources and Bioprocessing</i> , 2017 , 4, 31	5.2	6
25	Bacterial cellulose and its potential for biomedical applications. <i>Biotechnology Advances</i> , 2021 , 53, 107856	6.8	6
24	Intracellular metabolite profiling of industrial yeast and the synthesis of flavour compounds in beer. <i>Journal of the Institute of Brewing</i> , 2017 , 123, 328-336	2	5
23	Bacterial cellulose production from ethylenediamine pretreated <i>Caragana korshinskii</i> Kom. <i>Industrial Crops and Products</i> , 2021 , 164, 113340	5.9	5

22	Fabrication of amino acid-based supramolecular hydrogel with silver ions for improved antibacterial properties. <i>Materials Letters</i> , 2021 , 300, 130161	3.3	5
21	Identification of Quorum-Sensing Molecules of -Acyl-Homoserine Lactone in Strains by Liquid Chromatography-Tandem Mass Spectrometry. <i>Molecules</i> , 2019 , 24,	4.8	4
20	Integrating kinetics with thermodynamics to study the alkaline extraction of protein from Caragana korshinskii Kom. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1801-8	4.9	4
19	The Effect of Growth, Migration and Bacterial Cellulose Synthesis of Gluconacetobacter xylinus in Presence of Direct Current Electric Field Condition. <i>Advanced Materials Research</i> , 2012 , 550-553, 1108-1115	4.5	4
18	A self-assembled amino acid-based hydrogel with broad-spectrum antibacterial activity. <i>Journal of Materials Science</i> , 2021 , 56, 7626-7636	4.3	3
17	Preparation and characterization of antibacterial bacterial cellulose/chitosan hydrogels impregnated with silver sulfadiazine. <i>International Journal of Biological Macromolecules</i> , 2021 , 189, 483-493	4.9	3
16	Permeation of Silver Sulfadiazine Into TEMPO-Oxidized Bacterial Cellulose as an Antibacterial Agent. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 616467	5.8	2
15	Production and applications of bacterial cellulose 2021 , 359-390		2
14	Fabrication of bacterial cellulose with TiO-ZnO nanocomposites as a multifunctional membrane for water remediation.. <i>Journal of Colloid and Interface Science</i> , 2022 , 620, 1-13	9.3	2
13	Self-assembly of peptide nanofibers with chirality-encoded antimicrobial activity.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 135-146	9.3	2
12	Preparation and Characterization of Acylcaramel. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 5614-5620	5.7	1
11	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019 , 35, 929-993	5	1
10	Dissolution of Cellulose in Ionic Liquid-DMSO Mixtures: Roles of DMSO/IL Ratio and the Cation Alkyl Chain Length. <i>ACS Omega</i> , 2021 , 6, 27225-27232	3.9	1
9	Green synthesis of acetylated maize starch in different imidazolium carboxylate and choline carboxylate ionic liquids.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119353	10.3	1
8	Heterochiral peptide-based biocompatible and injectable supramolecular hydrogel with antibacterial activity. <i>Journal of Materials Science</i> , 2022 , 57, 5198	4.3	0
7	In situ regulation of bacterial cellulose networks by starch from different sources or amylose/amylopectin content during fermentation. <i>International Journal of Biological Macromolecules</i> , 2021 , 195, 59-59	7.9	0
6	The production of bacterial cellulose in Gluconacetobacter xylinus regulated by luxR overexpression of quorum sensing system. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 7801-7811	5.7	0
5	Lysine Methylation Modulates the Interaction of Archaeal Chromatin Protein Cren7 With DNA.. <i>Frontiers in Microbiology</i> , 2022 , 13, 837737	5.7	0

4	Structural characterization and immunomodulatory activity of exopolysaccharide from <i>Aureobasidium pullulans</i> CGMCC 23063.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119366	10.3	0
3	Developing a High Efficient Process Integrating Protein Extraction with Cellulosic Ethanol Production from <i>Caragana korshinskii</i> Kom. <i>Advanced Materials Research</i> , 2012 , 518-523, 5545-5549	0.5	
2	Whole-genome sequencing exploitation analysis of non-Saccharomyces yeast <i>Nakazawaea ishiwadae</i> GDMCC 60786 and its physiological characterizations. <i>Food Bioscience</i> , 2021 , 41, 100982	4.9	
1	Monosaccharide removal and effects of <i>Komagataeibacter xylinus</i> fermentation on antioxidant capacity and flavor profile of Chinese wolfberry juice. <i>Journal of Food Processing and Preservation</i> , 2021 , 45, e15800	2.1	