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List of Publications by Year in descending order

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70
papers

3,242
citations

126708

33
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149479

56
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71
docs citations

71
times ranked

3659
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis, production and applications of bacterial cellulose. <i>Cellulose</i> , 2013, 20, 2191-2219.	2.4	380
2	Effect of different additives on bacterial cellulose production by <i>Acetobacter xylinum</i> and analysis of material property. <i>Cellulose</i> , 2009, 16, 1033-1045.	2.4	174
3	Improved cellulose X-ray diffraction analysis using Fourier series modeling. <i>Cellulose</i> , 2020, 27, 5563-5579.	2.4	132
4	Surface area and porosity of acid hydrolyzed cellulose nanowhiskers and cellulose produced by <i>Gluconacetobacter xylinus</i> . <i>Carbohydrate Polymers</i> , 2012, 87, 1026-1037.	5.1	128
5	Directed Rotational Motion of Microscale Objects Using Interfacial Tension Gradients Continually Generated via Catalytic Reactions. <i>Small</i> , 2005, 1, 202-206.	5.2	127
6	Mechanical and structural property analysis of bacterial cellulose composites. <i>Carbohydrate Polymers</i> , 2016, 144, 447-453.	5.1	126
7	Advances in biofilm reactors for production of value-added products. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 445-456.	1.7	121
8	Formation and Characterization of Spherelike Bacterial Cellulose Particles Produced by <i>Acetobacter xylinum</i> JCM 9730 Strain. <i>Biomacromolecules</i> , 2010, 11, 1727-1734.	2.6	113
9	In vitro biodegradability and mechanical properties of bioabsorbable bacterial cellulose incorporating cellulases. <i>Acta Biomaterialia</i> , 2011, 7, 2835-2845.	4.1	104
10	Effects of CMC Addition on Bacterial Cellulose Production in a Biofilm Reactor and Its Paper Sheets Analysis. <i>Biomacromolecules</i> , 2011, 12, 730-736.	2.6	99
11	Quantification of cellulose nanowhiskers sulfate esterification levels. <i>Carbohydrate Polymers</i> , 2013, 92, 1809-1816.	5.1	97
12	Impact of hemicelluloses and pectin on sphere-like bacterial cellulose assembly. <i>Carbohydrate Polymers</i> , 2012, 88, 547-557.	5.1	93
13	Improved eco-friendly barrier materials based on crystalline nanocellulose/chitosan/carboxymethyl cellulose polyelectrolyte complexes. <i>Food Hydrocolloids</i> , 2018, 80, 195-205.	5.6	84
14	Factors Impacting the Formation of Sphere-Like Bacterial Cellulose Particles and Their Biocompatibility for Human Osteoblast Growth. <i>Biomacromolecules</i> , 2013, 14, 3444-3452.	2.6	75
15	Characterization of cellulose and other exopolysaccharides produced from <i>Gluconacetobacter</i> strains. <i>Carbohydrate Polymers</i> , 2015, 115, 663-669.	5.1	74
16	Integration of cellulases into bacterial cellulose: Toward bioabsorbable cellulose composites. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 97B, 114-123.	1.6	69
17	The impact of cellulose structure on binding interactions with hemicellulose and pectin. <i>Cellulose</i> , 2013, 20, 1613-1627.	2.4	62
18	Effects of plastic composite support and pH profiles on pullulan production in a biofilm reactor. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 853-861.	1.7	61

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19	Effect of cellulose crystallinity on bacterial cellulose assembly. <i>Cellulose</i> , 2016, 23, 3417-3427.	2.4	59
20	Cellulose produced by <i>Gluconacetobacter xylinus</i> strains ATCC 53524 and ATCC 23768: Pellicle formation, post-synthesis aggregation and fiber density. <i>Carbohydrate Polymers</i> , 2015, 133, 270-276.	5.1	58
21	Binding Specificity and Thermodynamics of Cellulose-Binding Modules from <i>Trichoderma reesei</i> Cel7A and Cel6A. <i>Biomacromolecules</i> , 2013, 14, 1268-1277.	2.6	54
22	A covalently cross-linked hyaluronic acid/bacterial cellulose composite hydrogel for potential biological applications. <i>Carbohydrate Polymers</i> , 2021, 252, 117123.	5.1	53
23	The influences of added polysaccharides on the properties of bacterial crystalline nanocellulose. <i>Nanoscale</i> , 2017, 9, 15144-15158.	2.8	50
24	Sustainable starch-based barrier coatings for packaging applications. <i>Food Hydrocolloids</i> , 2020, 103, 105696.	5.6	50
25	Surface-Bound Casein Modulates the Adsorption and Activity of Kinesin on SiO_2 Surfaces. <i>Biophysical Journal</i> , 2009, 96, 3305-3318.	0.2	49
26	Enhanced mechanical properties of bacterial cellulose nanocomposites produced by co-culturing <i>Gluconacetobacter hansenii</i> and <i>Escherichia coli</i> under static conditions. <i>Carbohydrate Polymers</i> , 2019, 219, 12-20.	5.1	49
27	Structure characterization of native cellulose during dehydration and rehydration. <i>Cellulose</i> , 2014, 21, 3951-3963.	2.4	48
28	Roles of xyloglucan and pectin on the mechanical properties of bacterial cellulose composite films. <i>Cellulose</i> , 2014, 21, 275-289.	2.4	47
29	Bioabsorbable cellulose composites prepared by an improved mineral-binding process for bone defect repair. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1235-1246.	2.9	47
30	Characterization of water-soluble exopolysaccharides from <i>Gluconacetobacter xylinus</i> and their impacts on bacterial cellulose crystallization and ribbon assembly. <i>Cellulose</i> , 2014, 21, 3965-3978.	2.4	46
31	Poly(lactic acid) composites incorporating casein functionalized cellulose nanowhiskers. <i>Journal of Biological Engineering</i> , 2013, 7, 31.	2.0	43
32	Engineering of porous bacterial cellulose toward human fibroblasts ingrowth for tissue engineering. <i>Journal of Materials Research</i> , 2014, 29, 2682-2693.	1.2	43
33	Enhanced dispersion and interface compatibilization of crystalline nanocellulose in polylactide by surfactant adsorption. <i>Cellulose</i> , 2017, 24, 4845-4860.	2.4	36
34	Sustainable barrier materials based on polysaccharide polyelectrolyte complexes. <i>Green Chemistry</i> , 2017, 19, 4080-4092.	4.6	32
35	Crystalline nanocellulose/lauric arginate complexes. <i>Carbohydrate Polymers</i> , 2017, 175, 320-329.	5.1	31
36	Cellulose Microfibril Formation by Surface-Tethered Cellulose Synthase Enzymes. <i>ACS Nano</i> , 2016, 10, 1896-1907.	7.3	28

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37	Bacterial cellulose/hyaluronic acid nanocomposites production through co-culturing <i>Gluconacetobacter hansenii</i> and <i>Lactococcus lactis</i> in a two-vessel circulating system. <i>Bioresource Technology</i> , 2019, 290, 121715.	4.8	26
38	The role of casein in supporting the operation of surface bound kinesin. <i>Journal of Biological Engineering</i> , 2008, 2, 14.	2.0	20
39	Biochemical localization of a protein involved in synthesis of <i>Gluconacetobacter hansenii</i> cellulose. <i>Cellulose</i> , 2011, 18, 739-747.	2.4	20
40	Isolation and Characterization of Two Cellulose Morphology Mutants of <i>Gluconacetobacter hansenii</i> ATCC23769 Producing Cellulose with Lower Crystallinity. <i>PLoS ONE</i> , 2015, 10, e0119504.	1.1	19
41	Dual-charge bacterial cellulose as a potential 3D printable material for soft tissue engineering. <i>Composites Part B: Engineering</i> , 2022, 231, 109598.	5.9	19
42	Control of Catalytically Generated Electroosmotic Fluid Flow through Surface Zeta Potential Engineering. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11959-11964.	1.5	18
43	Biodegradable Starch/Chitosan Foam via Microwave Assisted Preparation: Morphology and Performance Properties. <i>Polymers</i> , 2020, 12, 2612.	2.0	17
44	Effects of exopolysaccharides from <i>Escherichia coli</i> ATCC 35860 on the mechanical properties of bacterial cellulose nanocomposites. <i>Cellulose</i> , 2018, 25, 2273-2287.	2.4	15
45	Structural and physico-chemical characterization of industrial hemp hurd: Impacts of chemical pretreatments and mechanical refining. <i>Industrial Crops and Products</i> , 2021, 171, 113818.	2.5	15
46	Bacterial cellulose/hyaluronic acid nanocomposites production through co-culturing <i>Gluconacetobacter hansenii</i> and <i>Lactococcus lactis</i> under different initial pH values of fermentation media. <i>Cellulose</i> , 2020, 27, 2529-2540.	2.4	14
47	Impact of plant matrix polysaccharides on cellulose produced by surface-tethered cellulose synthases. <i>Carbohydrate Polymers</i> , 2017, 162, 93-99.	5.1	11
48	Oriented 2D metal organic framework coating on bacterial cellulose for nitrobenzene removal from water by filtration. <i>Separation and Purification Technology</i> , 2021, 276, 119366.	3.9	10
49	Co-culture fermentation on the production of bacterial cellulose nanocomposite produced by <i>Komagataeibacter hansenii</i> . <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100028.	1.6	10
50	Nanoscale patterning of kinesin motor proteins and its role in guiding microtubule motility. <i>Biomedical Microdevices</i> , 2009, 11, 313-322.	1.4	9
51	Insoluble starch composite foams produced through microwave expansion. <i>Carbohydrate Polymers</i> , 2014, 111, 864-869.	5.1	9
52	Synthesis of cationic bacterial cellulose using a templated metal phenolic network for antibacterial applications. <i>Cellulose</i> , 2021, 28, 9283-9296.	2.4	9
53	Microtubule asters as templates for nanomaterials assembly. <i>Journal of Biological Engineering</i> , 2012, 6, 23.	2.0	8
54	Shear-induced unidirectional deposition of bacterial cellulose microfibrils using rising bubble stream cultivation. <i>Carbohydrate Polymers</i> , 2021, 255, 117328.	5.1	7

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55	Effects of pullulan additive and co-culture of Aureobasidium pullulans on bacterial cellulose produced by Komagataeibacter hansenii. Bioprocess and Biosystems Engineering, 2022, 45, 573-587.	1.7	7
56	The impact of antibiotics on bacterial cellulose in vivo. Cellulose, 2017, 24, 1261-1285.	2.4	6
57	Sustainable Development of Polysaccharide Polyelectrolyte Complexes as Eco-Friendly Barrier Materials for Packaging Applications. ACS Symposium Series, 2018, , 109-123.	0.5	6
58	Agri-food firms, universities, and corporate social responsibility: what's in the public interest?. Renewable Agriculture and Food Systems, 2020, 35, 158-168.	0.8	6
59	Cantilever-Based Chemical Sensors for Detecting Catalytically Produced Reactions and Motility Forces Generated via Electrokinetic Phenomena. Small, 2007, 3, 1934-1940.	5.2	5
60	A catalytically powered electrokinetic lens: toward channelless microfluidics. Microfluidics and Nanofluidics, 2011, 10, 1147-1151.	1.0	5
61	Structural properties of starch-chitosan-gelatin foams and the impact of gelatin on MC3T3 mouse osteoblast cell viability. Journal of Biological Engineering, 2017, 11, 43.	2.0	3
62	BcsAB synthesized cellulose on nickel surface: polymerization of monolignols during cellulose synthesis alters cellulose morphology. Cellulose, 2020, 27, 5629-5639.	2.4	3
63	The formation of Gluconacetobacter xylinum cellulose under the influence of the dye brilliant yellow. Cellulose, 2019, 26, 9373-9386.	2.4	2
64	Direct sub-100-nm patterning of an organic low-k dielectric for electrical and optical interconnects. Journal of Electronic Materials, 2005, 34, L12-L15.	1.0	1
65	Biological Sorting and Fluidic Devices Based on Catalytically Generated Electrokinetic Phenomena. , 2009, , .		0
66	Comparison of cellulose production of two different Gluconacetobacter xylinus strains using both glucose and galactose as carbon sources. , 2010, , .		0
67	Impact of brilliant yellow on the synthesis and structure change of <i>Gluconacetobacter xylinus</i> cellulose. , 2013, , .		0
68	The adsorption of xyloglucan and pectin to model crystalline and amorphous cellulose substrates. , 2013, , .		0
69	Study of a Novel Co-culturing Fermentation for Bacterial Cellulose Nanocomposite Production. , 2020, , .		0
70	Development of Biocompatible MEMS Wireless Capacitive Pressure Sensor. Journal of Microelectronics and Electronic Packaging, 2005, 2, 287-296.	0.8	0