

Jian-Rong Wu

List of Publications by Year in descending order

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516710

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#	ARTICLE	IF	CITATIONS
1	Influence of sodium chloride on thermal denaturation of a high-salt-tolerant neutral protease from <i>Aspergillus oryzae</i> . <i>Food Science and Biotechnology</i> , 2013, 22, 1-7.	2.6	149
2	Characterization of xanthan gum produced from glycerol by a mutant strain <i>Xanthomonas campestris</i> CCTCC M2015714. <i>Carbohydrate Polymers</i> , 2017, 157, 521-526.	10.2	67
3	Activation of glycerol metabolism in <i>Xanthomonas campestris</i> by adaptive evolution to produce a high-transparency and low-viscosity xanthan gum from glycerol. <i>Bioresource Technology</i> , 2016, 211, 390-397.	9.6	45
4	Improved curdlan fermentation process based on optimization of dissolved oxygen combined with pH control and metabolic characterization of <i>Agrobacterium</i> sp. ATCC 31749. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 367-379.	3.6	39
5	Influence of Tween-80 on the production and structure of water-insoluble curdlan from <i>Agrobacterium</i> sp.. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 611-619.	7.5	37
6	Enhanced curdlan production in <i>Agrobacterium</i> sp. ATCC 31749 by addition of low-polyphosphates. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 34-41.	2.6	35
7	ARTP mutation and genome shuffling of ABE fermentation symbiotic system for improvement of butanol production. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2189-2199.	3.6	28
8	Enhanced Production of Curdlan by <i>Alcaligenes faecalis</i> by Selective Feeding with Ammonia Water during the Cell Growth Phase of Fermentation. <i>Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology</i> , 2008, 24, 1035-1039.	0.2	27
9	Reconstruction and analysis of a genome-scale metabolic network of <i>Corynebacterium glutamicum</i> S9114. <i>Gene</i> , 2016, 575, 615-622.	2.2	27
10	Production of rhamnolipids by semi-solid-state fermentation with <i>Pseudomonas aeruginosa</i> RG18 for heavy metal desorption. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1611-1619.	3.4	25
11	Enhancement of Sphingolipid Synthesis Improves Osmotic Tolerance of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	25
12	Effect of metabolic structures and energy requirements on curdlan production by <i>Alcaligenes faecalis</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2007, 12, 359-365.	2.6	23
13	Production of polysialic acid from fed-batch fermentation with pH control. <i>Biochemical Engineering Journal</i> , 2002, 11, 201-204.	3.6	21
14	Sequence and transcriptional analysis of the genes responsible for curdlan biosynthesis in <i>Agrobacterium</i> sp. ATCC 31749 under simulated dissolved oxygen gradients conditions. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 163-175.	3.6	21
15	A new polysialic acid production process based on dual-stage pH control and fed-batch fermentation for higher yield and resulting high molecular weight product. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2405-2412.	3.6	21
16	Enhanced production of curdlan by coupled fermentation system of <i>Agrobacterium</i> sp. ATCC 31749 and <i>Trichoderma harzianum</i> GIM 3.442. <i>Carbohydrate Polymers</i> , 2017, 157, 1687-1694.	10.2	20
17	An efficient and large-scale preparation process for polysialic acid by <i>Escherichia coli</i> CCTCC M208088. <i>Biochemical Engineering Journal</i> , 2010, 53, 97-103.	3.6	15
18	Improvement of ATP regeneration efficiency and operation stability in porcine interferon- β production by <i>Pichia pastoris</i> under lower induction temperature. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1412-1419.	2.7	15

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19	Improvement of the CuZn-superoxide dismutase enzyme activity and stability as a therapeutic agent by modification with polysialic acids. <i>Biotechnology Letters</i> , 2010, 32, 1939-1945.	2.2	14
20	High production of xanthan gum by a glycerol-tolerant strain <i>Xanthomonas campestris</i> WXLB-006. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 468-472.	1.9	13
21	Potential application of a low-viscosity and high-transparency xanthan gum produced from <i>Xanthomonas campestris</i> CCTCC M2015714 in foods. <i>Preparative Biochemistry and Biotechnology</i> , 2018, 48, 402-407.	1.9	13
22	Efficient whole-cell biocatalyst for Neu5Ac production by manipulating synthetic, degradation and transmembrane pathways. <i>Biotechnology Letters</i> , 2017, 39, 55-63.	2.2	11
23	Recycling of cooking oil fume condensate for the production of rhamnolipids by <i>Pseudomonas aeruginosa</i> WB505. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 777-784.	3.4	10
24	Enhancement of polysialic acid yield by reducing initial phosphate and feeding ammonia water to <i>Escherichia coli</i> CCTCC M208088. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 657-663.	2.6	8
25	Effective production of biologically active water-soluble β -1,3-glucan by a coupled system of <i>Agrobacterium</i> sp. and <i>Trichoderma harzianum</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2018, 48, 446-456.	1.9	8
26	Phosphoenolpyruvate-supply module in <i>Escherichia coli</i> improves N-acetyl-d-neuraminic acid biocatalysis. <i>Biotechnology Letters</i> , 2017, 39, 227-234.	2.2	7
27	Bioproduction, purification, and application of polysialic acid. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9403-9409.	3.6	7
28	Synthesis of functional oligosaccharides and their derivatives through cocultivation and cellular NTP regeneration. <i>Advances in Applied Microbiology</i> , 2021, 115, 35-63.	2.4	7
29	Metabolic profiles of oligosaccharides derived from four microbial polysaccharides by faecal inocula from type 2 diabetes patients. <i>International Journal of Food Sciences and Nutrition</i> , 2021, 72, 1-12.	2.8	7
30	Synthesis and characterization of polysialic acid/carboxymethyl chitosan hydrogel with potential for drug delivery. <i>Russian Journal of Bioorganic Chemistry</i> , 2015, 41, 562-567.	1.0	5
31	Modification with polysialic acid-PEG copolymer as a new method for improving the therapeutic efficacy of proteins. <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 788-797.	1.9	5
32	Enhanced N-acetyl-neuraminic production from glycerol and N-acetyl-glucosamine by metabolically engineered <i>Escherichia coli</i> with a two-stage pH-shift control strategy. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 125-132.	3.0	5
33	Synthesis of branched β -1,3-glucan oligosaccharide with narrow degree of polymerization by fungi co-cultivation. <i>Carbohydrate Polymers</i> , 2021, 273, 118582.	10.2	5
34	Structural characterization and in vitro evaluation of the prebiotic potential of an exopolysaccharide produced by <i>Bacillus thuringiensis</i> during fermentation. <i>LWT - Food Science and Technology</i> , 2022, 163, 113532.	5.2	5
35	Preparation and characterization of a novel polysialic acid-hyaluronan graft copolymer potential as dermal filler. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 692-698.	7.5	4
36	An Oligomannuronic Acid-Sialic Acid Conjugate Capable of Inhibiting A β 242 Aggregation and Alleviating the Inflammatory Response of BV-2 Microglia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12338.	4.1	4

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37	Dipotassium phosphate improves the molecular weight stability of polysialic acid in Escherichia coli K235 culture broth. <i>Bioresource Technology</i> , 2018, 247, 30-35.	9.6	3
38	Preparation of sulfonated silk fibroin for anti-coagulation material. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 1701-1715.	3.5	2
39	Preparation and property of a biantenna macromolecule based on polysialic acid. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1342-1349.	7.5	1
40	Metabolic fate of dietary sialic acid and its influence on gut and oral bacteria. <i>Systems Microbiology and Biomanufacturing</i> , 0, , 1.	2.9	1
41	Preparation and characterization of bifunctional edible gellan-polylysine fiber. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 293-299.	7.5	1
42	New Strategy for Enhancement Curdlan Biosynthesis in <i>Alcaligenes faecalis</i> by Activating Gene Expression. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings]</i> International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0