

Jin-song Shi

List of Publications by Year in Descending Order

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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.

98
papers

1,530
citations

22
h-index

33
g-index

108
ext. papers

2,185
ext. citations

5.7
avg, IF

4.89
L-index

#	Paper	IF	Citations
98	Improving glutathione production by engineered <i>Pichia pastoris</i> : strain construction and optimal precursor feeding.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 1905	5.7	1
97	Preparation and applications of keratin biomaterials from natural keratin wastes.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 2349	5.7	0
96	<i>Komagataeibacter europaeus</i> improves community stability and function in solid-state cereal vinegar fermentation ecosystem: Non-abundant species plays important role. <i>Food Research International</i> , 2021 , 150, 110815	7	4
95	Improving the Intensity of Integrated Expression for Microbial Production. <i>ACS Synthetic Biology</i> , 2021 , 10, 2796-2807	5.7	1
94	A combination of bioinformatics analysis and rational design strategies to enhance keratinase thermostability for efficient biodegradation of feathers. <i>Science of the Total Environment</i> , 2021 , 151824	10.2	1
93	Chitooligosaccharides alleviate hepatic fibrosis by regulating the polarization of M1 and M2 macrophages.. <i>Food and Function</i> , 2021 ,	6.1	1
92	Cereal Vinegar Sediment Alleviates Spontaneous Ulcerative Colitis in Il-10 Deficient Mice. <i>Molecular Nutrition and Food Research</i> , 2021 , e2001227	5.9	2
91	Fine-Tuning Multi-Gene Clusters via Well-Characterized Gene Expression Regulatory Elements: Case Study of the Arginine Synthesis Pathway in. <i>ACS Synthetic Biology</i> , 2021 , 10, 38-48	5.7	4
90	Phospholipids (PLs) know-how: exploring and exploiting phospholipase D for its industrial dissemination. <i>Critical Reviews in Biotechnology</i> , 2021 , 41, 1257-1278	9.4	1
89	Versatile strategies for bioproduction of hyaluronic acid driven by synthetic biology. <i>Carbohydrate Polymers</i> , 2021 , 264, 118015	10.3	5
88	Significant improvement in conversion efficiency of isonicotinic acid by immobilization of cells via a novel microsphere preparation instrument. <i>Bioresource Technology</i> , 2021 , 320, 124307	11	2
87	Metagenomics unveils microbial roles involved in metabolic network of flavor development in medium-temperature daqu starter. <i>Food Research International</i> , 2021 , 140, 110037	7	16
86	Characterization of a transcriptional regulator PtxS from <i>Pseudomonas plecoglossicida</i> for regulating 2-ketogluconic acid metabolism. <i>International Journal of Biological Macromolecules</i> , 2021 , 174, 330-338	7.9	
85	Daqu microbiota exhibits species-specific and periodic succession features in Chinese baijiu fermentation process. <i>Food Microbiology</i> , 2021 , 98, 103766	6	7
84	Similarities and differences of oligo/poly-saccharides Impact on human fecal microbiota identified by in vitro fermentation. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 7475-7486	5.7	2
83	Cooperation within the microbial consortia of fermented grains and pit mud drives organic acid synthesis in strong-flavor Baijiu production. <i>Food Research International</i> , 2021 , 147, 110449	7	15
82	Heterologous expression, fermentation strategies and molecular modification of collagen for versatile applications.. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-22	11.5	0

81	Hepatoprotective Effect of Cereal Vinegar Sediment in Acute Liver Injury Mice and Its Influence on Gut Microbiota.. <i>Frontiers in Nutrition</i> , 2021 , 8, 798273	6.2	0
80	Glutathione enables full utilization of wool wastes for keratin production and wastewater decolorization. <i>Journal of Cleaner Production</i> , 2020 , 270, 122092	10.3	7
79	High-yield production of L-serine through a novel identified exporter combined with synthetic pathway in <i>Corynebacterium glutamicum</i> . <i>Microbial Cell Factories</i> , 2020 , 19, 115	6.4	4
78	Fabrication and characterization of high molecular keratin based nanofibrous membranes for wound healing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 194, 111158	6	17
77	Deciphering the d-/l-lactate-producing microbiota and manipulating their accumulation during solid-state fermentation of cereal vinegar. <i>Food Microbiology</i> , 2020 , 92, 103559	6	9
76	Recombinant expression and molecular engineering of the keratinase from <i>Brevibacillus parabrevis</i> for dehairing performance. <i>Journal of Biotechnology</i> , 2020 , 320, 57-65	3.7	5
75	Evaluating Terminator Strength Based on Differentiating Effects on Transcription and Translation. <i>ChemBioChem</i> , 2020 , 21, 2067-2072	3.8	1
74	Two-Stage Semi-Continuous 2-Keto-Gluconic Acid (2KGA) Production by JUIM01 From Rice Starch Hydrolyzate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 120	5.8	6
73	Cordycepin protects against acute pancreatitis by modulating NF- κ B and NLRP3 inflammasome activation via AMPK. <i>Life Sciences</i> , 2020 , 251, 117645	6.8	19
72	A 2-ketogluconate kinase KguK in <i>Pseudomonas plecoglossicida</i> JUIM01: Enzymatic characterization and its role in 2-keto-d-gluconic acid metabolism. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2640-2648	7.9	1
71	Modulating microbiota metabolism via bioaugmentation with <i>Lactobacillus casei</i> and <i>Acetobacter pasteurianus</i> to enhance acetoin accumulation during cereal vinegar fermentation. <i>Food Research International</i> , 2020 , 138, 109737	7	12
70	Enzymatic Extraction of Bioactive and Self-Assembling Wool Keratin for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000073	5.5	10
69	Improving the biocatalytic performance of co-immobilized cells harboring nitrilase via addition of silica and calcium carbonate. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 2201-2207	3.7	3
68	The tale of a versatile enzyme: Molecular insights into keratinase for its industrial dissemination. <i>Biotechnology Advances</i> , 2020 , 45, 107655	17.8	10
67	Protective Effect of Spore Powder of ATCC 200183 on CCl-Induced Liver Fibrosis in Mice. <i>Nutrients</i> , 2020 , 12,	6.7	3
66	Efficient keratinase expression via promoter engineering strategies for degradation of feather wastes. <i>Enzyme and Microbial Technology</i> , 2020 , 137, 109550	3.8	19
65	Engineering <i>Corynebacterium glutamicum</i> for the de novo biosynthesis of tailored poly- γ -glutamic acid. <i>Metabolic Engineering</i> , 2019 , 56, 39-49	9.7	25
64	Combining Pro-peptide Engineering and Multisite Saturation Mutagenesis To Improve the Catalytic Potential of Keratinase. <i>ACS Synthetic Biology</i> , 2019 , 8, 425-433	5.7	19

63	Phospholipase D engineering for improving the biocatalytic synthesis of phosphatidylserine. <i>Bioprocess and Biosystems Engineering</i> , 2019 , 42, 1185-1194	3.7	8
62	Comparative proteomic analysis revealed the metabolic mechanism of excessive exopolysaccharide synthesis by under CaCO addition. <i>Preparative Biochemistry and Biotechnology</i> , 2019 , 49, 435-443	2.4	1
61	A Membrane-Bound Gluconate Dehydrogenase from 2-Keto-D-Gluconic Acid Industrial Producing Strain <i>Pseudomonas plecoglossicida</i> JUIM01: Purification, Characterization, and Gene Identification. <i>Applied Biochemistry and Biotechnology</i> , 2019 , 188, 897-913	3.2	6
60	Profiling the Clostridia with butyrate-producing potential in the mud of Chinese liquor fermentation cellar. <i>International Journal of Food Microbiology</i> , 2019 , 297, 41-50	5.8	40
59	<i>Edgeworthia gardneri</i> (Wall.) Meisn. water extract improves diabetes and modulates gut microbiota. <i>Journal of Ethnopharmacology</i> , 2019 , 239, 111854	5	12
58	Zooming in on Butyrate-Producing Clostridial Consortia in the Fermented Grains of Gene Sequence-Guided Microbial Isolation. <i>Frontiers in Microbiology</i> , 2019 , 10, 1397	5.7	16
57	Promotion of Metabolite Synthesis in , a Dominant Species in the Cicada Flower Microbiota, by Cicada Pupae. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 8476-8484	5.7	3
56	Structural characterization and anti-alcoholic liver injury activity of a polysaccharide from <i>Coriolus versicolor</i> mycelia. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 1102-1111	7.9	15
55	Rewiring the Central Metabolic Pathway for High-Yield L-Serine Production in <i>Corynebacterium glutamicum</i> by Using Glucose. <i>Biotechnology Journal</i> , 2019 , 14, e1800497	5.6	12
54	High-yield production of L-serine from glycerol by engineered <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 221-230	4.2	4
53	Mining and Expression of a Metagenome-Derived Keratinase Responsible for Biosynthesis of Silver Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1307-1315	5.5	17
52	Microbial Production of L-Serine from Renewable Feedstocks. <i>Trends in Biotechnology</i> , 2018 , 36, 700-712	5.1	15
51	Efficient biocatalytic synthesis of nicotinic acid by recombinant nitrilase via high density culture. <i>Bioresource Technology</i> , 2018 , 260, 427-431	11	16
50	Polysaccharide peptides from <i>Coriolus versicolor</i> : A multi-targeted approach for the protection or prevention of alcoholic liver disease. <i>Journal of Functional Foods</i> , 2018 , 40, 769-777	5.1	17
49	Prebiotic Mannan-Oligosaccharides Augment the Hypoglycemic Effects of Metformin in Correlation with Modulating Gut Microbiota. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5821-5831	5.7	50
48	Mining of a phospholipase D and its application in enzymatic preparation of phosphatidylserine. <i>Bioengineered</i> , 2018 , 9, 80-89	5.7	11
47	Microbial ecology of cereal vinegar fermentation: insights for driving the ecosystem function. <i>Current Opinion in Biotechnology</i> , 2018 , 49, 88-93	11.4	36
46	Purification, characterization and gene identification of a membrane-bound glucose dehydrogenase from 2-keto-d-gluconic acid industrial producing strain <i>Pseudomonas plecoglossicida</i> JUIM01. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 534-541	7.9	9

45	The alginate lyase from <i>Isotripora halotolerans</i> CGMCC 5336 as a new tool for the production of alginate oligosaccharides with guluronic acid as reducing end. <i>Carbohydrate Research</i> , 2018 , 470, 36-41	2.9	11
44	Depolymerized konjac glucomannan: preparation and application in health care. <i>Journal of Zhejiang University: Science B</i> , 2018 , 19, 505-514	4.5	14
43	Integration of ARTP mutagenesis with biosensor-mediated high-throughput screening to improve L-serine yield in <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 5939-5951	5.7	32
42	Investigation of specific interactions between T7 promoter and T7 RNA polymerase by force spectroscopy using atomic force microscope. <i>Biochemical Journal</i> , 2018 , 475, 319-328	3.8	4
41	Nitrile-converting enzymes as a tool to improve biocatalysis in organic synthesis: recent insights and promises. <i>Critical Reviews in Biotechnology</i> , 2017 , 37, 69-81	9.4	39
40	Purification and characterization of a high salt-tolerant alginate lyase from <i>Cobetia</i> sp. WG-007. <i>Biotechnology and Applied Biochemistry</i> , 2017 , 64, 519-524	2.8	16
39	Bioassay-guided fractionation of ethyl acetate extract from <i>Armillaria mellea</i> attenuates inflammatory response in lipopolysaccharide (LPS) stimulated BV-2 microglia. <i>Phytomedicine</i> , 2017 , 26, 55-61	6.5	28
38	Enhancement of fructose utilization from sucrose in the cell for improved L-serine production in engineered <i>Corynebacterium glutamicum</i> . <i>Biochemical Engineering Journal</i> , 2017 , 118, 113-122	4.2	8
37	Bio-Heat Is a Key Environmental Driver Shaping the Microbial Community of Medium-Temperature Daqu. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	71
36	Comparative Transcriptomic and Proteomic Analyses Reveal a FluG-Mediated Signaling Pathway Relating to Asexual Sporulation of <i>Antrodia camphorata</i> . <i>Proteomics</i> , 2017 , 17, 1700256	4.8	6
35	A novel alkaline surfactant-stable keratinase with superior feather-degrading potential based on library screening strategy. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 404-411	7.9	31
34	Metagenomics reveals flavour metabolic network of cereal vinegar microbiota. <i>Food Microbiology</i> , 2017 , 62, 23-31	6	59
33	Vanillin Promotes the Germination of <i>Arthroconidia</i> through PKA and MAPK Signaling Pathways. <i>Frontiers in Microbiology</i> , 2017 , 8, 2048	5.7	2
32	Identification of antrocin B from <i>Antrodia camphorata</i> as a new anti-hepatofibrotic compound using a rapid cell screening method and biological evaluation. <i>Hepatology Research</i> , 2016 , 46, E15-25	5.1	9
31	Production and characterization of surfactant-stable fungal keratinase from <i>Gibberella intermedia</i> CA3-1 with application potential in detergent industry. <i>Chemical Papers</i> , 2016 , 70,	1.9	11
30	Elucidating and Regulating the Acetoin Production Role of Microbial Functional Groups in Multispecies Acetic Acid Fermentation. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 5860-8	4.8	30
29	Exploring flavour-producing core microbiota in multispecies solid-state fermentation of traditional Chinese vinegar. <i>Scientific Reports</i> , 2016 , 6, 26818	4.9	87
28	A novel aceE mutation leading to a better growth profile and a higher L-serine production in a high-yield L-serine-producing <i>Corynebacterium glutamicum</i> strain. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 1293-301	4.2	3

27	Engineering of a fungal nitrilase for improving catalytic activity and reducing by-product formation in the absence of structural information. <i>Catalysis Science and Technology</i> , 2016 , 6, 4134-4141	5.5	11
26	A metallo-keratinase from a newly isolated <i>Acinetobacter</i> sp. R-1 with low collagenase activity and its biotechnological application potential in leather industry. <i>Bioprocess and Biosystems Engineering</i> , 2016 , 39, 193-204	3.7	22
25	Enhanced 3 β -5 β -Tetrahydroxy-5-Androsten-17-One Production from Dehydroepiandrosterone by <i>Colletotrichum lini</i> ST-1 Resting Cells with Tween-80. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 91-100	3.2	7
24	Biochemical characterization of a novel surfactant-stable serine keratinase with no collagenase activity from <i>Brevibacillus parabrevis</i> CGMCC 10798. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 843-851	7.9	34
23	A surfactant-stable <i>Bacillus pumilus</i> K9 β -keratinase and its potential application in detergent industry. <i>Chemical Research in Chinese Universities</i> , 2015 , 31, 91-97	2.2	7
22	Biochemical characterization of an extreme alkaline and surfactant-stable keratinase derived from a newly isolated actinomycete <i>Streptomyces aureofaciens</i> K13. <i>RSC Advances</i> , 2015 , 5, 24691-24699	3.7	25
21	Efficient hydroxylation of functionalized steroids by <i>Colletotrichum lini</i> ST-1. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 120, 111-118		14
20	Efficient production of bioactive metabolites from <i>Antrodia camphorata</i> ATCC 200183 by asexual reproduction-based repeated batch fermentation. <i>Bioresource Technology</i> , 2015 , 194, 334-43	11	16
19	Batch-to-batch uniformity of bacterial community succession and flavor formation in the fermentation of Zhenjiang aromatic vinegar. <i>Food Microbiology</i> , 2015 , 50, 64-9	6	49
18	Biochemical characterization and cloning of an endo-1,4- β -mannanase from <i>Bacillus subtilis</i> YH12 with unusually broad substrate profile. <i>Process Biochemistry</i> , 2015 , 50, 712-721	4.8	30
17	Biochemical Characterization of An Arginine-Specific Alkaline Trypsin from <i>Bacillus licheniformis</i> . <i>International Journal of Molecular Sciences</i> , 2015 , 16, 30061-74	6.3	7
16	L-Serine overproduction with minimization of by-product synthesis by engineered <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 1665-73	5.7	31
15	Screening and characterization of a highly active chitosanase based on metagenomic technology. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 111, 29-35		14
14	Structural and Immunological Activity Characterization of a Polysaccharide Isolated from <i>Meretrix meretrix</i> Linnaeus. <i>Marine Drugs</i> , 2015 , 14, 6	6	9
13	Enhanced biotransformation of dehydroepiandrosterone to 3 β -5 β -Tetrahydroxy-5-androsten-17-one with <i>Gibberella intermedia</i> CA3-1 by natural oils addition. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014 , 41, 1497-504	4.2	11
12	Modified arthroconidial inoculation method for the efficient fermentation of <i>Antrodia camphorata</i> ATCC 200183. <i>Biochemical Engineering Journal</i> , 2014 , 87, 41-49	4.2	7
11	Alpha-terpineol promotes triterpenoid production of <i>Antrodia cinnamomea</i> in submerged culture. <i>FEMS Microbiology Letters</i> , 2014 , 358, 36-43	2.9	12
10	The efficient production of 3 β -5 β -Tetrahydroxy-5-androsten-17-one from dehydroepiandrosterone by <i>Gibberella intermedia</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014 , 174, 2960-71	3.2	8

9	Antrodia camphorata ATCC 200183 sporulates asexually in submerged culture. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 2851-8	5.7	11
8	Characterization and functional cloning of an aromatic nitrilase from <i>Pseudomonas putida</i> CGMCC3830 with high conversion efficiency toward cyanopyridine. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 97, 175-183		17
7	Purification and characterisation of a bifunctional alginate lyase from novel <i>Isophtericola</i> halotolerans CGMCC 5336. <i>Carbohydrate Polymers</i> , 2013 , 98, 1476-82	10.3	44
6	Expression, purification, and bioactivity of (GLP-1A2G) ₂ -HSA analogs in <i>Pichia pastoris</i> GS115. <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 1076-1082	3.1	1
5	Metagenomic technology and genome mining: emerging areas for exploring novel nitrilases. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 6603-11	5.7	56
4	Bioassay-guided isolation of DPP-4 inhibitory fractions from extracts of submerged cultured of <i>Inonotus obliquus</i> . <i>Molecules</i> , 2013 , 18, 1150-61	4.8	26
3	Preparation and characterization of polyaniline/Fe ₃ O ₄ /polyacrylonitrile composite nanofibers. <i>International Journal of Materials Research</i> , 2012 , 103, 1390-1394	0.5	3
2	Monitoring the microbial community during solid-state acetic acid fermentation of Zhenjiang aromatic vinegar. <i>Food Microbiology</i> , 2011 , 28, 1175-81	6	75
1	Characterization, heterologous expression and engineering of trehalase for biotechnological applications. <i>Systems Microbiology and Biomanufacturing</i> , 1		