

Jin-song Shi

List of Publications by Year in descending order

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102
papers

2,780
citations

159525

30
h-index

223716

46
g-index

108
all docs

108
docs citations

108
times ranked

2252
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-Heat Is a Key Environmental Driver Shaping the Microbial Community of Medium-Temperature Daqu. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	153
2	Exploring flavour-producing core microbiota in multispecies solid-state fermentation of traditional Chinese vinegar. <i>Scientific Reports</i> , 2016, 6, 26818.	1.6	148
3	Monitoring the microbial community during solid-state acetic acid fermentation of Zhenjiang aromatic vinegar. <i>Food Microbiology</i> , 2011, 28, 1175-1181.	2.1	102
4	Metagenomics reveals flavour metabolic network of cereal vinegar microbiota. <i>Food Microbiology</i> , 2017, 62, 23-31.	2.1	100
5	Batch-to-batch uniformity of bacterial community succession and flavor formation in the fermentation of Zhenjiang aromatic vinegar. <i>Food Microbiology</i> , 2015, 50, 64-69.	2.1	87
6	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.	2.4	84
7	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.	2.1	79
8	Metagenomics unveils microbial roles involved in metabolic network of flavor development in medium-temperature daqu starter. <i>Food Research International</i> , 2021, 140, 110037.	2.9	76
9	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.	2.9	69
10	Metagenomic technology and genome mining: emerging areas for exploring novel nitrilases. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6603-6611.	1.7	61
11	Microbial ecology of cereal vinegar fermentation: insights for driving the ecosystem function. <i>Current Opinion in Biotechnology</i> , 2018, 49, 88-93.	3.3	59
12	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.	1.7	55
13	Purification and characterisation of a bifunctional alginate lyase from novel <i>Isoptericola halotolerans</i> CGMCC 5336. <i>Carbohydrate Polymers</i> , 2013, 98, 1476-1482.	5.1	54
14	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.	5.1	53
15	Daqu microbiota exhibits species-specific and periodic succession features in Chinese baijiu fermentation process. <i>Food Microbiology</i> , 2021, 98, 103766.	2.1	51
16	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.	3.6	46
17	Engineering <i>Corynebacterium glutamicum</i> for the de novo biosynthesis of tailored poly- γ -glutamic acid. <i>Metabolic Engineering</i> , 2019, 56, 39-49.	3.6	45
18	Elucidating and Regulating the Acetoin Production Role of Microbial Functional Groups in Multispecies Acetic Acid Fermentation. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5860-5868.	1.4	44

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19	l-Serine overproduction with minimization of by-product synthesis by engineered <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1665-1673.	1.7	42
20	Microbial Production of l-Serine from Renewable Feedstocks. <i>Trends in Biotechnology</i> , 2018, 36, 700-712.	4.9	40
21	Cordycepin protects against acute pancreatitis by modulating NF- κ B and NLRP3 inflammasome activation via AMPK. <i>Life Sciences</i> , 2020, 251, 117645.	2.0	40
22	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.	3.6	38
23	Zooming in on Butyrate-Producing Clostridial Consortia in the Fermented Grains of Baijiu via Gene Sequence-Guided Microbial Isolation. <i>Frontiers in Microbiology</i> , 2019, 10, 1397.	1.5	37
24	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.	2.9	37
25	Fabrication and characterization of high molecular keratin based nanofibrous membranes for wound healing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111158.	2.5	37
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.	1.7	35
27	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.	2.3	35
28	Efficient keratinase expression via promoter engineering strategies for degradation of feather wastes. <i>Enzyme and Microbial Technology</i> , 2020, 137, 109550.	1.6	35
29	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.	1.8	34
30	Combining Pro-peptide Engineering and Multisite Saturation Mutagenesis To Improve the Catalytic Potential of Keratinase. <i>ACS Synthetic Biology</i> , 2019, 8, 425-433.	1.9	32
31	<i>Edgeworthia gardneri</i> (Wall.) Meisn. water extract improves diabetes and modulates gut microbiota. <i>Journal of Ethnopharmacology</i> , 2019, 239, 111854.	2.0	32
32	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.	1.7	31
33	Bioassay-Guided Isolation of DPP-4 Inhibitory Fractions from Extracts of Submerged Cultured of <i>Inonotus obliquus</i> . <i>Molecules</i> , 2013, 18, 1150-1161.	1.7	29
34	The tale of a versatile enzyme: Molecular insights into keratinase for its industrial dissemination. <i>Biotechnology Advances</i> , 2020, 45, 107655.	6.0	29
35	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.	1.4	28
36	Versatile strategies for bioproduction of hyaluronic acid driven by synthetic biology. <i>Carbohydrate Polymers</i> , 2021, 264, 118015.	5.1	28

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37	Enzymatic Extraction of Bioactive and Self-Assembling Wool Keratin for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2020, 20, e2000073.	2.1	27
38	<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.	2.9	27
39	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.	1.9	26
40	Depolymerized konjac glucomannan: preparation and application in health care. <i>Journal of Zhejiang University: Science B</i> , 2018, 19, 505-514.	1.3	25
41	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.	3.6	25
42	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.	1.8	24
43	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.	2.1	23
44	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, 334-343.	4.8	22
45	Efficient biocatalytic synthesis of nicotinic acid by recombinant nitrilase via high density culture. <i>Bioresource Technology</i> , 2018, 260, 427-431.	4.8	21
46	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.	1.6	21
47	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.	1.8	20
48	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.	1.3	20
49	Efficient hydroxylation of functionalized steroids by <i>Colletotrichum lini</i> ST-1. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 120, 111-118.	1.8	17
50	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.	2.6	17
51	Phospholipase D engineering for improving the biocatalytic synthesis of phosphatidylserine. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1185-1194.	1.7	17
52	Alpha-terpineol promotes triterpenoid production of <i>Antrodia cinnamomea</i> in submerged culture. <i>FEMS Microbiology Letters</i> , 2014, 358, 36-43.	0.7	16
53	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.	2.1	16
54	Mining of a phospholipase D and its application in enzymatic preparation of phosphatidylserine. <i>Bioengineered</i> , 2018, 9, 80-89.	1.4	16

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55	Fine-Tuning Multi-Gene Clusters via Well-Characterized Gene Expression Regulatory Elements: Case Study of the Arginine Synthesis Pathway in <i>C. glutamicum</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 38-48.	1.9	16
56	Screening and characterization of a highly active chitosanase based on metagenomic technology. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 111, 29-35.	1.8	15
57	Structural and Immunological Activity Characterization of a Polysaccharide Isolated from <i>Meretrix meretrix</i> Linnaeus. <i>Marine Drugs</i> , 2016, 14, 6.	2.2	15
58	The alginate lyase from <i>Isoptericola 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.	1.1	15
59	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> , 2022, 818, 151824.	3.9	15
60	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, .	1.0	14
61	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.	1.9	14
62	Preparation and applications of keratin biomaterials from natural keratin wastes. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2349-2366.	1.7	14
63	Biochemical Characterization of An Arginine-Specific Alkaline Trypsin from <i>Bacillus licheniformis</i> . <i>International Journal of Molecular Sciences</i> , 2015, 16, 30061-30074.	1.8	13
64	Evaluating Terminator Strength Based on Differentiating Effects on Transcription and Translation. <i>ChemBioChem</i> , 2020, 21, 2067-2072.	1.3	13
65	Chitooligosaccharides alleviate hepatic fibrosis by regulating the polarization of M1 and M2 macrophages. <i>Food and Function</i> , 2022, 13, 753-768.	2.1	13
66	<i>Antrodia camphorata</i> ATCC 200183 sporulates asexually in submerged culture. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2851-2858.	1.7	12
67	Enhanced biotransformation of dehydroepiandrosterone to 3 β ,7 β ,15 β -trihydroxy-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, 1497-1504.	1.4	12
68	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.	3.6	12
69	Glutathione enables full utilization of wool wastes for keratin production and wastewater decolorization. <i>Journal of Cleaner Production</i> , 2020, 270, 122092.	4.6	12
70	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.	1.8	11
71	Two-Stage Semi-Continuous 2-Keto-Gluconic Acid (2KGA) Production by <i>Pseudomonas plecoglossicida</i> JUIM01 From Rice Starch Hydrolyzate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 120.	2.0	11
72	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.	1.3	10

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73	Identification of antrodin 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.	1.8	10
74	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.	1.4	10
75	Directed evolution driving the generation of an efficient keratinase variant to facilitate the feather degradation. <i>Bioresources and Bioprocessing</i> , 2022, 9, .	2.0	10
76	The Efficient Production of 3 β ,7 α ,15 α -Trihydroxy-5-Androsten-17-One from Dehydroepiandrosterone by <i>Gibberella intermedia</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2960-2971.	1.4	9
77	Modified arthroconidial inoculation method for the efficient fermentation of <i>Antrodia camphorata</i> ATCC 200183. <i>Biochemical Engineering Journal</i> , 2014, 87, 41-49.	1.8	9
78	Enhanced 3 β ,7 α ,15 α -Trihydroxy-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.	1.4	9
79	High-yield production of <i>l</i> -serine from glycerol by engineered <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 221-230.	1.4	9
80	Protective Effect of Spore Powder of <i>Antrodia camphorata</i> ATCC 200183 on CCl ₄ -Induced Liver Fibrosis in Mice. <i>Nutrients</i> , 2020, 12, 2778.	1.7	8
81	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.	1.7	8
82	Improving the Intensity of Integrated Expression for Microbial Production. <i>ACS Synthetic Biology</i> , 2021, 10, 2796-2807.	1.9	8
83	Heterologous expression, fermentation strategies and molecular modification of collagen for versatile applications. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 5268-5289.	5.4	8
84	A novel <i>aceE</i> mutation leading to a better growth profile and a higher <i>l</i> -serine production in a high-yield <i>l</i> -serine-producing <i>Corynebacterium glutamicum</i> strain. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1293-1301.	1.4	7
85	Phospholipids (PLs) know-how: exploring and exploiting phospholipase D for its industrial dissemination. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 1257-1278.	5.1	7
86	Cereal Vinegar Sediment Alleviates Spontaneous Ulcerative Colitis in <i>IL10</i> Deficient Mice. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2001227.	1.5	7
87	Metabolite-Based Mutualistic Interaction between Two Novel Clostridial Species from Pit Mud Enhances Butyrate and Caproate Production. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	7
88	Promotion of Metabolite Synthesis in <i>Isaria cicadae</i> , a Dominant Species in the Cicada Flower Microbiota, by Cicada Pupae. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 8476-8484.	2.4	6
89	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.	1.7	6
90	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.	1.7	5

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91	Improving glutathione production by engineered <i>Pichia pastoris</i> : strain construction and optimal precursor feeding. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1905-1917.	1.7	5
92	GABRP promotes CD44s-mediated gemcitabine resistance in pancreatic cancer. <i>PeerJ</i> , 0, 10, e12728.	0.9	5
93	Preparation and characterization of polyaniline/Fe ₃ O ₄ @polyacrylonitrile composite nanofibers. <i>International Journal of Materials Research</i> , 2012, 103, 1390-1394.	0.1	3
94	Vanillin Promotes the Germination of <i>Antrodia camphorata</i> Arthroconidia through PKA and MAPK Signaling Pathways. <i>Frontiers in Microbiology</i> , 2017, 8, 2048.	1.5	3
95	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.	1.4	2
96	Comparative proteomic analysis revealed the metabolic mechanism of excessive exopolysaccharide synthesis by <i>Bacillus mucilaginosus</i> under CaCO ₃ addition. <i>Preparative Biochemistry and Biotechnology</i> , 2019, 49, 435-443.	1.0	2
97	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.	4.8	2
98	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.	1.6	2
99	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.	3.6	1
100	Characterization, heterologous expression and engineering of trehalase for biotechnological applications. <i>Systems Microbiology and Biomanufacturing</i> , 0, , 1.	1.5	1
101	Characterization and implications of prokaryotic ribosome-binding sites across species. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 676-684.	1.5	1
102	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.	3.6	0