

Zhi-Qiang Xiong

List of Publications by Year in descending order

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91
papers

1,999
citations

236612

25
h-index

288905

40
g-index

93
all docs

93
docs citations

93
times ranked

2206
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in the Discovery and Development of Marine Microbial Natural Products. <i>Marine Drugs</i> , 2013, 11, 700-717.	2.2	132
2	CRISPR-Cas9 Nickase-Assisted Genome Editing in <i>Lactobacillus casei</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	128
3	Diversity of endophytic fungi and screening of fungal paclitaxel producer from <i>Angiojap yew</i> , <i>Taxus x media</i> . <i>BMC Microbiology</i> , 2013, 13, 71.	1.3	115
4	Cholesterol-lowering potentials of <i>Lactobacillus</i> strain overexpression of bile salt hydrolase on high cholesterol diet-induced hypercholesterolemic mice. <i>Food and Function</i> , 2019, 10, 1684-1695.	2.1	67
5	Characterization and selection of <i>Lactobacillus brevis</i> starter for nitrite degradation of Chinese pickle. <i>Food Control</i> , 2017, 78, 126-131.	2.8	61
6	Genomic and phenotypic analyses of exopolysaccharide biosynthesis in <i>Streptococcus thermophilus</i> S-3. <i>Journal of Dairy Science</i> , 2019, 102, 4925-4934.	1.4	60
7	Lactic Acid Bacteria With Antioxidant Activities Alleviating Oxidized Oil Induced Hepatic Injury in Mice. <i>Frontiers in Microbiology</i> , 2018, 9, 2684.	1.5	58
8	<i>Lactobacillus plantarum</i> AR501 Alleviates the Oxidative Stress of Galactose-Induced Aging Mice Liver by Upregulation of Nrf2-Mediated Antioxidant Enzyme Expression. <i>Journal of Food Science</i> , 2018, 83, 1990-1998.	1.5	58
9	Pathway mining-based integration of critical enzyme parts for de novo biosynthesis of steviolglycosides sweetener in <i>Escherichia coli</i> . <i>Cell Research</i> , 2016, 26, 258-261.	5.7	57
10	Characterization of <i>Streptomyces padanus</i> JAU4234, a Producer of Actinomycin X ₂ , Fungichromin, and a New Polyene Macrolide Antibiotic. <i>Applied and Environmental Microbiology</i> , 2012, 78, 589-592.	1.4	54
11	Improvement of flavor profiles in Chinese rice wine by creating fermenting yeast with superior ethanol tolerance and fermentation activity. <i>Food Research International</i> , 2018, 108, 83-92.	2.9	52
12	<i>Lactobacillus plantarum</i> AR113 alleviates DSS-induced colitis by regulating the TLR4/MyD88/NF- κ B pathway and gut microbiota composition. <i>Journal of Functional Foods</i> , 2020, 67, 103854.	1.6	49
13	Enhancing isoprenoid production through systematically assembling and modulating efflux pumps in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 8057-8067.	1.7	48
14	Structural characterization and rheological properties of β -D-glucan from hull-less barley (<i>Hordeum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.4	48
15	Antrodin A from <i>Antrodia camphorata</i> modulates the gut microbiome and liver metabolome in mice exposed to acute alcohol intake. <i>Food and Function</i> , 2021, 12, 2925-2937.	2.1	44
16	Characterization of a yogurt-quality improving exopolysaccharide from <i>Streptococcus thermophilus</i> AR333. <i>Food Hydrocolloids</i> , 2018, 81, 220-228.	5.6	42
17	Quantitative Design of Regulatory Elements Based on High-Precision Strength Prediction Using Artificial Neural Network. <i>PLoS ONE</i> , 2013, 8, e60288.	1.1	39
18	Comparison of galactose operons in wild-type galactose-positive and -negative <i>Streptococcus thermophilus</i> by genomics and transcription analysis. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 751-758.	1.4	36

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19	Real-time viable-cell mass monitoring in high-cell-density fed-batch glutathione fermentation by <i>Saccharomyces cerevisiae</i> T65 in industrial complex medium. <i>Journal of Bioscience and Bioengineering</i> , 2008, 105, 409-413.	1.1	35
20	Diterpenoid UDP-Glycosyltransferases from Chinese Sweet Tea and <i>Ashitaba</i> Complete the Biosynthesis of Rubusoside. <i>Molecular Plant</i> , 2018, 11, 1308-1311.	3.9	34
21	Antrodin A from mycelium of <i>Antrodia camphorata</i> alleviates acute alcoholic liver injury and modulates intestinal flora dysbiosis in mice. <i>Journal of Ethnopharmacology</i> , 2020, 254, 112681.	2.0	32
22	Characterization of a Panel of Strong Constitutive Promoters from <i>Streptococcus thermophilus</i> for Fine-Tuning Gene Expression. <i>ACS Synthetic Biology</i> , 2019, 8, 1469-1472.	1.9	31
23	In vitro antifungal activity of antifungalmycin 702, a new polyene macrolide antibiotic, against the rice blast fungus <i>Magnaporthe grisea</i> . <i>Biotechnology Letters</i> , 2013, 35, 1475-1479.	1.1	29
24	Efficient extraction of intracellular reduced glutathione from fermentation broth of <i>Saccharomyces cerevisiae</i> by ethanol. <i>Bioresource Technology</i> , 2009, 100, 1011-1014.	4.8	25
25	Diversity and bioprospecting of culturable actinomycetes from marine sediment of the Yellow Sea, China. <i>Archives of Microbiology</i> , 2015, 197, 299-309.	1.0	25
26	RQ feedback control for simultaneous improvement of GSH yield and GSH content in <i>Saccharomyces cerevisiae</i> T65. <i>Enzyme and Microbial Technology</i> , 2010, 46, 598-602.	1.6	24
27	Carrageenan polysaccharides and oligosaccharides with distinct immunomodulatory activities in murine microglia BV-2 cells. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 633-640.	3.6	24
28	Characterization of a cryptic plasmid isolated from <i>Lactobacillus casei</i> CP002616 and construction of shuttle vectors based on its replicon. <i>Journal of Dairy Science</i> , 2018, 101, 2875-2886.	1.4	23
29	Relationship Between Putative <i>eps</i> Genes and Production of Exopolysaccharide in <i>Lactobacillus casei</i> LC2W. <i>Frontiers in Microbiology</i> , 2018, 9, 1882.	1.5	23
30	Short communication: An inducible CRISPR/dCas9 gene repression system in <i>Lactococcus lactis</i> . <i>Journal of Dairy Science</i> , 2020, 103, 161-165.	1.4	22
31	Optimization of medium composition for actinomycin X2 production by <i>Streptomyces</i> spp JAU4234 using response surface methodology. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 729-734.	1.4	21
32	Proteolysis, lipolysis, texture and sensory properties of cheese ripened by <i>Monascus fumeus</i> . <i>Food Research International</i> , 2020, 137, 109657.	2.9	21
33	The Mechanism of Antifungal Action of a New Polyene Macrolide Antibiotic Antifungalmycin 702 from <i>Streptomyces padanus</i> JAU4234 on the Rice Sheath Blight Pathogen <i>Rhizoctonia solani</i> . <i>PLoS ONE</i> , 2013, 8, e73884.	1.1	20
34	Comparison of oenological property, volatile profile, and sensory characteristic of Chinese rice wine fermented by different starters during brewing. <i>International Journal of Food Properties</i> , 2017, 20, S3195-S3211.	1.3	20
35	Structure characterization of a pyruvated exopolysaccharide from <i>Lactobacillus plantarum</i> AR307. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 113-120.	3.6	20
36	Short communication: Improving the activity of bile salt hydrolases in <i>Lactobacillus casei</i> based on in silico molecular docking and heterologous expression. <i>Journal of Dairy Science</i> , 2017, 100, 975-980.	1.4	19

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37	Human-origin <i>Lactobacillus salivarius</i> AR809 protects against immunosuppression in <i>S. aureus</i> -induced pharyngitis via Akt-mediated NF- κ B and autophagy signaling pathways. <i>Food and Function</i> , 2020, 11, 270-284.	2.1	19
38	Structural characterisation of EPS of <i>Streptococcus thermophilus</i> S-3 and its application in milk fermentation. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 263-269.	3.6	18
39	Improving heterologous polyketide production in <i>Escherichia coli</i> by transporter engineering. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8691-8700.	1.7	17
40	Probiotics Interact With Lipids Metabolism and Affect Gut Health. <i>Frontiers in Nutrition</i> , 2022, 9, .	1.6	16
41	Bile salt hydrolase-overexpressing <i>Lactobacillus</i> strains can improve hepatic lipid accumulation in vitro in an NAFLD cell model. <i>Food and Nutrition Research</i> , 2020, 64, .	1.2	15
42	On-line specific growth rate control for improving reduced glutathione production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 887-893.	1.4	13
43	Construction of polyketide overproducing <i>Escherichia coli</i> strains via synthetic antisense RNAs based on in silico fluxome analysis and comparative transcriptome analysis. <i>Biotechnology Journal</i> , 2016, 11, 530-541.	1.8	13
44	Enhanced production of avermectin by deletion of type III polyketide synthases biosynthetic cluster in <i>Streptomyces avermitilis</i> . <i>Letters in Applied Microbiology</i> , 2016, 63, 384-390.	1.0	13
45	Purification and characteristics of a new milk-clotting enzyme from <i>Bacillus licheniformis</i> BL312. <i>LWT - Food Science and Technology</i> , 2019, 113, 108276.	2.5	13
46	Draft Genome Sequence of the Marine <i>Streptomyces</i> sp. Strain AA1529, Isolated from the Yellow Sea. <i>Journal of Bacteriology</i> , 2012, 194, 5474-5475.	1.0	12
47	Specific bile salt hydrolase genes in <i>Lactobacillus plantarum</i> AR113 and relationship with bile salt resistance. <i>LWT - Food Science and Technology</i> , 2021, 145, 111208.	2.5	12
48	Draft Genome Sequence of Marine-Derived <i>Streptomyces</i> sp. Strain AA0539, Isolated from the Yellow Sea, China. <i>Journal of Bacteriology</i> , 2012, 194, 6622-6623.	1.0	11
49	Enhancement of anthraquinone production during batch fermentation using pH control coupled with an oxygen vector. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 449-456.	1.7	11
50	The second messenger c-di-AMP mediates bacterial exopolysaccharide biosynthesis: a review. <i>Molecular Biology Reports</i> , 2020, 47, 9149-9157.	1.0	11
51	Synthetic Biology Triggers New Era of Antibiotics Development. <i>Sub-Cellular Biochemistry</i> , 2012, 64, 95-114.	1.0	9
52	Exploiting exogenous MEP pathway genes to improve the downstream isoprenoid pathway effects and enhance isoprenoid production in <i>Escherichia coli</i> . <i>Process Biochemistry</i> , 2015, 50, 24-32.	1.8	9
53	Adhesion to pharyngeal epithelium and modulation of immune response: <i>Lactobacillus salivarius</i> AR809, a potential probiotic strain isolated from the human oral cavity. <i>Journal of Dairy Science</i> , 2019, 102, 6738-6749.	1.4	9
54	Enhanced Antioxidant Activity in <i>Streptococcus thermophilus</i> by High-Level Expression of Superoxide Dismutase. <i>Frontiers in Microbiology</i> , 2020, 11, 579804.	1.5	9

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55	CRISPR-Cas-mediated gene editing in lactic acid bacteria. <i>Molecular Biology Reports</i> , 2020, 47, 8133-8144.	1.0	9
56	LysR Family Regulator LttR Controls Production of Conjugated Linoleic Acid in <i>Lactobacillus plantarum</i> by Directly Activating the <i>cltA</i> Operon. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	9
57	Oxygen uptake rate regulation during cell growth phase for improving avermectin B1a batch fermentation on a pilot scale (2m ³). <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2639-2644.	1.7	8
58	Identification of novel knockout and up-regulated targets for improving isoprenoid production in <i>E. coli</i> . <i>Biotechnology Letters</i> , 2014, 36, 1021-1027.	1.1	8
59	The use of a simple flow cytometry method for rapid detection of spores in probiotic <i>Bacillus licheniformis</i> -containing tablets. <i>Food Science and Biotechnology</i> , 2017, 26, 167-171.	1.2	8
60	Functional analysis and heterologous expression of bifunctional glutathione synthetase from <i>Lactobacillus</i> . <i>Journal of Dairy Science</i> , 2018, 101, 6937-6945.	1.4	8
61	Fermentation conditions of serine/alkaline milk-clotting enzyme production by newly isolated <i>Bacillus licheniformis</i> BL312. <i>Annals of Microbiology</i> , 2019, 69, 1289-1300.	1.1	8
62	Single-plasmid systems based on CRISPR-Cas9 for gene editing in <i>Lactococcus lactis</i> . <i>Journal of Dairy Science</i> , 2021, 104, 10576-10585.	1.4	8
63	Short communication: Dynamic changes in bacterial diversity during the production of powdered infant formula by PCR-DGGE and high-throughput sequencing. <i>Journal of Dairy Science</i> , 2020, 103, 5972-5977.	1.4	8
64	Endophytes in the plant <i>Huperzia serrata</i> : fungal diversity and discovery of a new pentapeptide. <i>Archives of Microbiology</i> , 2015, 197, 411-418.	1.0	7
65	High-Level Expression and Substrate-Binding Region Modification of a Novel BL312 Milk-Clotting Enzyme To Enhance the Ratio of Milk-Clotting Activity to Proteolytic Activity. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13684-13693.	2.4	7
66	RNA-Seq transcriptomic analyses of <i>Antrodia camphorata</i> to determine antroquinol and antrodin C biosynthetic mechanisms in their situ extractive fermentation. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 4252-4262.	1.7	7
67	Construction of a CRISPR/Cas9-assisted genome editing system for exopolysaccharide biosynthesis in <i>Streptococcus thermophilus</i> . <i>Food Research International</i> , 2022, 158, 111550.	2.9	6
68	Isolation of biogenic amine-negative lactic acid bacteria for Chinese rice wine fermentation based on molecular marker reverse screening. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 3257-3261.	1.7	5
69	Enhancement of antroquinol production via the overexpression of 4-hydroxybenzoate polyprenyltransferase biosynthesis-related genes in <i>Antrodia cinnamomea</i> . <i>Phytochemistry</i> , 2021, 184, 112677.	1.4	5
70	Comprehensive transcriptomic and proteomic analyses of antroquinol biosynthetic genes and enzymes in <i>Antrodia camphorata</i> . <i>AMB Express</i> , 2020, 10, 136.	1.4	5
71	Enhancement of triterpene production via in situ extractive fermentation of <i>Sanghuangporus vaninii</i> YC-1. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 2561-2572.	1.4	5
72	Effects of different carbon sources on metabolic profiles of carbohydrates in <i>Streptococcus thermophilus</i> during fermentation. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 4820-4829.	1.7	5

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73	CRISPR/dCas9-based metabolic pathway engineering for the systematic optimization of exopolysaccharide biosynthesis in <i>Streptococcus thermophilus</i> . <i>Journal of Dairy Science</i> , 2022, 105, 6499-6512.	1.4	5
74	Rapid isolation of exopolysaccharide-producing <i>Streptococcus thermophilus</i> based on molecular marker screening. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 862-867.	1.7	4
75	Anti-osteoporotic potential of <i>Lactobacillus plantarum</i> AR237 and AR495 in ovariectomized mice. <i>Journal of Functional Foods</i> , 2021, 87, 104762.	1.6	4
76	Reasons for the differences in biotransformation of conjugated linoleic acid by <i>Lactobacillus plantarum</i> . <i>Journal of Dairy Science</i> , 2021, 104, 11466-11473.	1.4	4
77	Effects and mechanism of sucrose on retrogradation, freeze-thaw stability, and texture of corn starch-tamarind seed polysaccharide complexes. <i>Journal of Food Science</i> , 2022, 87, 623-635.	1.5	4
78	The Arginine Repressor ArgR Controls Conjugated Linoleic Acid Biosynthesis by Activating the <i>cla</i> Operon in <i>Lactiplantibacillus plantarum</i> . <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	4
79	Short communication: Genome-wide identification of new reference genes for reverse-transcription quantitative PCR in <i>Streptococcus thermophilus</i> based on RNA-sequencing analysis. <i>Journal of Dairy Science</i> , 2020, 103, 10001-10005.	1.4	3
80	Genetic evidence for the requirements of anthraquinone biosynthesis by <i>Antrodia camphorata</i> during liquid-state fermentation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2022, 49, .	1.4	3
81	Metagenomic-Guided Antibiotics Discovery. <i>Clinical Microbiology (Los Angeles, Calif)</i> , 2012, 02, .	0.2	2
82	Significant expression of a Chinese scorpion peptide, BmK1, in <i>Escherichia coli</i> through promoter engineering and gene dosage strategy. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 466-473.	1.4	2
83	High-efficiency transformation of <i>Streptococcus thermophilus</i> using electroporation. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 6578-6585.	1.7	2
84	Genes encoding bile salt hydrolase differentially affect adhesion of <i>Lactiplantibacillus plantarum</i> AR113. <i>Journal of the Science of Food and Agriculture</i> , 2021, , .	1.7	2
85	Bioprospecting of Uncultured Microorganisms: The Dawning of Antibiotic Discovery. <i>Clinical Microbiology (Los Angeles, Calif)</i> , 2016, 05, .	0.2	2
86	Anti-Osteoporotic Effect of <i>Lactobacillus brevis</i> AR281 in an Ovariectomized Mouse Model Mediated by Inhibition of Osteoclast Differentiation. <i>Biology</i> , 2022, 11, 359.	1.3	2
87	Use of a Novel Report Protein to Study the Secretion Signal of Flagellin in <i>Bacillus subtilis</i> . <i>Current Microbiology</i> , 2016, 73, 242-247.	1.0	1
88	Recent Research Advances in Small Regulatory RNAs in <i>Streptococcus</i> . <i>Current Microbiology</i> , 2021, 78, 2231-2241.	1.0	1
89	Bioprospecting of Uncultured Marine Microorganisms Needs More New Cultivation Techniques for Natural Products Discovery. <i>Journal of Marine Biology and Aquaculture</i> , 2015, 1, 1-2.	0.1	1
90	Determination of the regulatory network and function of the lysR-type transcriptional regulator of <i>Lactiplantibacillus plantarum</i> , LpLtrR. <i>Microbial Cell Factories</i> , 2022, 21, 65.	1.9	1

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91	Meeting report: ACBâ€™2011 Shanghai â€œâ€œBiotechnology for Better Lifeâ€œ, Biotechnology Journal, 2011, 6, 1305-1307.	1.8	0