

Xiangcheng Zhu

List of Publications by Year in descending order

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81
papers

1,940
citations

257450

24
h-index

289244

40
g-index

83
all docs

83
docs citations

83
times ranked

2433
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and Biosynthesis of Heat-Stable Antifungal Factor (HSAF), a Broad-Spectrum Antimycotic with a Novel Mode of Action. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 64-72.	3.2	246
2	Efficient production of butyric acid from Jerusalem artichoke by immobilized <i>Clostridium tyrobutyricum</i> in a fibrous-bed bioreactor. <i>Bioresource Technology</i> , 2011, 102, 3923-3926.	9.6	93
3	Strain Prioritization and Genome Mining for Eneidyne Natural Products. <i>MBio</i> , 2016, 7, .	4.1	89
4	Discovery of the leinamycin family of natural products by mining actinobacterial genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E11131-E11140.	7.1	84
5	Strain Prioritization for Natural Product Discovery by a High-Throughput Real-Time PCR Method. <i>Journal of Natural Products</i> , 2014, 77, 2296-2303.	3.0	75
6	Improving the productivity of propionic acid with FBB-immobilized cells of an adapted acid-tolerant <i>Propionibacterium acidipropionici</i> . <i>Bioresource Technology</i> , 2012, 112, 248-253.	9.6	67
7	High-level exogenous glutamic acid-independent production of poly-(γ -glutamic acid) with organic acid addition in a new isolated <i>Bacillus subtilis</i> C10. <i>Bioresource Technology</i> , 2012, 116, 241-246.	9.6	57
8	Generation of high rapamycin producing strain via rational metabolic pathway-based mutagenesis and further titer improvement with fed-batch bioprocess optimization. <i>Biotechnology and Bioengineering</i> , 2010, 107, 506-515.	3.3	45
9	Biosynthetic Potential-Based Strain Prioritization for Natural Product Discovery: A Showcase for Diterpenoid-Producing Actinomycetes. <i>Journal of Natural Products</i> , 2014, 77, 377-387.	3.0	45
10	Biocatalytic production of ethyl butyrate from butyric acid with immobilized <i>Candida rugosa</i> lipase on cotton cloth. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 139-144.	1.8	43
11	Preparative Scale Production of Functional Mouse Aquaporin 4 Using Different Cell-Free Expression Modes. <i>PLoS ONE</i> , 2010, 5, e12972.	2.5	41
12	Angucyclines and Angucyclinones from <i>Streptomyces</i> sp. CB01913 Featuring C-Ring Cleavage and Expansion. <i>Journal of Natural Products</i> , 2015, 78, 2471-2480.	3.0	41
13	Fumonisin level in corn-based food and feed from Linxian County, a high-risk area for esophageal cancer in china. <i>Food Chemistry</i> , 2008, 106, 241-246.	8.2	39
14	Mechanisms and strategies of microbial cometabolism in the degradation of organic compounds – chlorinated ethylenes as the model. <i>Water Science and Technology</i> , 2014, 69, 1971-1983.	2.5	37
15	Efficient production of L-lactic acid from hydrolysate of Jerusalem artichoke with immobilized cells of <i>Lactococcus lactis</i> in fibrous bed bioreactors. <i>Enzyme and Microbial Technology</i> , 2012, 51, 263-268.	3.2	36
16	A novel approach for poly- γ -glutamic acid production using xylose and corncob fibres hydrolysate in <i>Bacillus subtilis</i> HB1. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 616-622.	3.2	35
17	Production of Dihydroisocoumarins in <i>Fusarium verticillioides</i> by Swapping Ketosynthase Domain of the Fungal Iterative Polyketide Synthase Fum1p with That of Lovastatin Diketide Synthase. <i>Journal of the American Chemical Society</i> , 2007, 129, 36-37.	13.7	34
18	Antimicrobial Spirotetronate Metabolites from Marine-Derived <i>Micromonospora harpali</i> SCSIO GJ089. <i>Journal of Natural Products</i> , 2017, 80, 1594-1603.	3.0	34

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19	Engineering of global regulator cAMP receptor protein (CRP) in <i>Escherichia coli</i> for improved lycopene production. <i>Journal of Biotechnology</i> , 2015, 199, 55-61.	3.8	29
20	Ribosome engineering and fermentation optimization leads to overproduction of tiancimycin A, a new enediyne natural product from <i>Streptomyces</i> sp. CB03234. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 141-151.	3.0	29
21	Huanglongmycin A-C, Cytotoxic Polyketides Biosynthesized by a Putative Type II Polyketide Synthase From <i>Streptomyces</i> sp. CB09001. <i>Frontiers in Chemistry</i> , 2018, 6, 254.	3.6	28
22	<i>Streptomyces</i> -induced ribosome engineering complemented with fermentation optimization for enhanced production of 10-membered enediynes tiancimycin A and tiancimycin D. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1304-1314.	3.3	28
23	Recycling of Chinese herb residues by endophytic and probiotic fungus <i>Aspergillus cristatus</i> CB10002 for the production of medicinal valuable anthraquinones. <i>Microbial Cell Factories</i> , 2019, 18, 102.	4.0	27
24	Titer improvement and pilot-scale production of platensimycin from <i>Streptomyces platensis</i> SB12026. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1027-1035.	3.0	25
25	Strain improvement by combined UV mutagenesis and ribosome engineering and subsequent fermentation optimization for enhanced 6-deoxy-bleomycin Z production. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1651-1661.	3.6	25
26	Developing a genetic system for functional manipulations of FUM1, a polyketide synthase gene for the biosynthesis of fumonisins in <i>Fusarium verticillioides</i> . <i>FEMS Microbiology Letters</i> , 2005, 248, 257-264.	1.8	23
27	Yangpunicins F and G, Enediyne Congeners from <i>Micromonospora yangpuensis</i> DSM 45577. <i>Journal of Natural Products</i> , 2019, 82, 2483-2488.	3.0	23
28	Titer improvement of iso-migrastatin in selected heterologous <i>Streptomyces</i> hosts and related analysis of mRNA expression by quantitative RT-PCR. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1709-1719.	3.6	22
29	Improving the productivity of S-adenosyl-L-methionine by metabolic engineering in an industrial <i>Saccharomyces cerevisiae</i> strain. <i>Journal of Biotechnology</i> , 2016, 236, 64-70.	3.8	22
30	Cytotoxic rearranged angucycline glycosides from deep sea-derived <i>Streptomyces lusitanus</i> SCSIO LR32. <i>Journal of Antibiotics</i> , 2017, 70, 819-822.	2.0	22
31	Platensimycin-Encapsulated Poly(lactic-co-glycolic acid) and Poly(amidoamine) Dendrimers Nanoparticles with Enhanced Anti-Staphylococcal Activity in Vivo. <i>Bioconjugate Chemistry</i> , 2020, 31, 1425-1437.	3.6	22
32	Functional Complementation of Fumonisin Biosynthesis in FUM1-Disrupted <i>Fusarium verticillioides</i> by the AAL-Toxin Polyketide Synthase Gene ALT1 from <i>Alternaria alternata</i> f. sp. <i>Lycopersici</i> . <i>Journal of Natural Products</i> , 2008, 71, 957-960.	3.0	21
33	Viscometric study of poly(vinyl chloride)/poly(vinyl acetate) blends in various solvents. <i>European Polymer Journal</i> , 2002, 38, 333-337.	5.4	20
34	Characterization of Chalkophomycin, a Copper(II) Metallophore with an Unprecedented Molecular Architecture. <i>Journal of the American Chemical Society</i> , 2021, 143, 20579-20584.	13.7	18
35	Biomimetic Stereoselective Sulfa-Michael Addition Leads to Platensimycin and Platencin Sulfur Analogues against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Journal of Natural Products</i> , 2018, 81, 316-322.	3.0	17
36	The discovery and development of microbial bleomycin analogues. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6791-6798.	3.6	17

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37	Antitubercular llamycins from Marine-Derived <i>Streptomyces atratus</i> SCSIO ZH16 1111laR. <i>Journal of Natural Products</i> , 2020, 83, 1646-1657.	3.0	17
38	Identification and Characterization of a New Erythromycin Biosynthetic Gene Cluster in <i>Actinopolyspora erythraea</i> YIM90600, a Novel Erythronolide-Producing Halophilic Actinomycete Isolated from Salt Field. <i>PLoS ONE</i> , 2014, 9, e108129.	2.5	17
39	Refolding and two-step purification by hydrophobic interaction chromatography of recombinant human bone morphogenetic protein-2 from <i>Escherichia coli</i> . <i>Process Biochemistry</i> , 2012, 47, 960-967.	3.7	16
40	Genome shuffling based on different types of ribosome engineering mutants for enhanced production of 10-membered enediyne tiancimycin-A. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 4359-4369.	3.6	16
41	Cloning and characterization of purine nucleoside phosphorylase in <i>Escherichia coli</i> and subsequent ribavirin biosynthesis using immobilized recombinant cells. <i>Enzyme and Microbial Technology</i> , 2011, 48, 438-444.	3.2	15
42	Recent advances in inkjet dispensing technologies: applications in drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2012, 7, 761-770.	5.0	14
43	Reconstitution of the peptidoglycan cytoplasmic precursor biosynthetic pathway in cell-free system and rapid screening of antisense oligonucleotides for Mur enzymes. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1785-1794.	3.6	13
44	Discovery of Alternative Producers of the Enediyne Antitumor Antibiotic C-1027 with High Titters. <i>Journal of Natural Products</i> , 2018, 81, 594-599.	3.0	13
45	Toxic effects of acrylic acid on <i>Clostridium propionicum</i> and isolation of acrylic acid-tolerant mutants for production of acrylic acid. <i>Engineering in Life Sciences</i> , 2012, 12, 567-573.	3.6	12
46	Effects of carbon/nitrogen ratio, dissolved oxygen and impeller type on gellan gum production in <i>Sphingomonas paucimobilis</i> . <i>Annals of Microbiology</i> , 2012, 62, 299-305.	2.6	12
47	Herbicidins from <i>Streptomyces</i> sp. CB01388 Showing Anti- <i>Cryptosporidium</i> Activity. <i>Journal of Natural Products</i> , 2018, 81, 791-797.	3.0	12
48	The semi-synthesis, biological evaluation and docking analysis of the oxime, hydrazine and hydrazide derivatives of platensimycin. <i>MedChemComm</i> , 2018, 9, 789-794.	3.4	12
49	Discovery of gas vesicles in <i>Streptomyces</i> sp. CB03234-S and potential effects of gas vesicle gene overexpression on morphological and metabolic changes in streptomycetes. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5751-5761.	3.6	12
50	Improved production of the tallysomycin H-1 in <i>Streptoalloteichus hindustanus</i> SB8005 strain by fermentation optimization. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1345-1353.	3.6	11
51	Enhanced production of l-tryptophan with glucose feeding and surfactant addition and related metabolic flux redistribution in the recombinant <i>Escherichia coli</i> . <i>Food Science and Biotechnology</i> , 2013, 22, 207-214.	2.6	11
52	A facile semi-synthetic approach towards halogen-substituted aminobenzoic acid analogues of platensimycin. <i>Tetrahedron</i> , 2017, 73, 771-775.	1.9	11
53	Germicidins H&I from <i>Streptomyces</i> sp. CB00361. <i>Journal of Antibiotics</i> , 2017, 70, 200-203.	2.0	11
54	High-level production of soluble pyrroloquinoline quinone-dependent glucose dehydrogenase in <i>Escherichia coli</i> . <i>Engineering in Life Sciences</i> , 2012, 12, 574-582.	3.6	10

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55	Construction of Inducible Genetic Switch for the Global Regulator WblA To Sustain Both Overproduction of Tiamcimycons and On-Demand Sporulation in <i>Streptomyces</i> sp. CB03234. <i>ACS Synthetic Biology</i> , 2020, 9, 1460-1467.	3.8	10
56	Antibacterial and Antitumor Potential of Actinomycetes Isolated from Mangrove Soil in the Maowei Sea of the Southern Coast of China. <i>Iranian Journal of Pharmaceutical Research</i> , 2018, 17, 1339-1346.	0.5	9
57	Liposome-Encapsulated Tiamcimycon A Is Active against Melanoma and Metastatic Breast Tumors: The Effect of cRGD Modification of the Liposomal Carrier and Tiamcimycon A Dose on Drug Activity and Toxicity. <i>Molecular Pharmaceutics</i> , 2022, 19, 1078-1090.	4.6	9
58	Construction of an efficient <i>Escherichia coli</i> cell-free system for <i>in vitro</i> expression of several kinds of proteins. <i>Engineering in Life Sciences</i> , 2010, 10, 333-338.	3.6	8
59	Characterization and application of a thermophilic Argonaute from archaeon <i>Thermococcus thioreducens</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 2388-2398.	3.3	8
60	Preparation of a hydroxyapatite-silver gradient bioactive ceramic coating with porous structure by laser cladding: A study of <i>in vitro</i> bioactivity. <i>Ceramics International</i> , 2022, 48, 30468-30481.	4.8	8
61	Biodegradation of Acetochlor by a Newly Isolated <i>Pseudomonas</i> Strain. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 636-644.	2.9	7
62	New isofuranonaphthoquinones and isoindolequinones from <i>Streptomyces</i> sp. CB01883. <i>Journal of Antibiotics</i> , 2017, 70, 414-422.	2.0	7
63	Efficient production of glutathione with multi-pathway engineering in <i>Corynebacterium glutamicum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 1685-1695.	3.0	7
64	Discovery of Kirromycins with Anti-Wolbachia Activity from <i>Streptomyces</i> sp. CB00686. <i>ACS Chemical Biology</i> , 2019, 14, 1174-1182.	3.4	7
65	Surfactin Ameliorated the Internalization and Inhibitory Performances of Bleomycin Family Compounds in Tumor Cells. <i>Molecular Pharmaceutics</i> , 2020, 17, 2125-2134.	4.6	7
66	Iso-migrastatin titer improvement in the engineered <i>Streptomyces lividans</i> SB11002 strain by optimization of fermentation conditions. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 664-669.	2.6	6
67	Semisynthesis and Biological Evaluation of Platensimycin Analogues with Varying Aminobenzoic Acids. <i>ChemistrySelect</i> , 2018, 3, 12625-12629.	1.5	6
68	The biosynthesis and bioactivity evaluation of the cytosine-substituted mildiomycin analogue (MIL-C) for controlling powder mildew. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 649-655.	3.6	5
69	Semisynthesis of 3-Hydroxyoxindole Rapamycin Analogues Through Site- and Stereoselective Trapping of Oxonium Ylides in Rh ^{II} -Catalyzed Three-Component Reactions. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2914-2918.	2.4	5
70	The Isolation of Pyrroloformamide Congeners and Characterization of Their Biosynthetic Gene Cluster. <i>Journal of Natural Products</i> , 2020, 83, 202-209.	3.0	5
71	Genome mining of <i>Streptomyces</i> sp. CB00271 as a natural high-producer of 12-bromomycin and the resulting discovery of 12-bromomycin acid. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2243-2254.	3.3	5
72	Medium optimization and subsequent fermentative regulation enabled the scaled-up production of anti-tuberculosis drug leads ilamycin E1/E2. <i>Biotechnology Journal</i> , 2022, 17, e2100427.	3.5	5

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73	Functional expression of <i>Bacillus subtilis</i> xylanase A in an <i>Escherichia coli</i> derived cell-free protein synthesis system and subsequent expression improvement via DNA gel technique. <i>Process Biochemistry</i> , 2012, 47, 1186-1191.	3.7	4
74	Improving the productivity of 19,20-epoxy-cytochalasin Q in <i>Xylaria</i> sp. sof11 with culture condition optimization. <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 461-466.	1.9	4
75	Biochemical and Molecular Analysis of the Biosynthesis of Fumonisin. <i>ACS Symposium Series</i> , 2007, , 81-96.	0.5	3
76	Introduction of the AAL-Toxin Polyketide Synthase Gene <i>ALT1</i> into <i>FUM1</i> -disrupted <i>Fusarium verticillioides</i> Produces Metabolites with the Fumonisin Methylation Pattern. <i>Journal of Natural Products</i> , 2009, 72, 1328-1330.	3.0	3
77	Advances in Understanding the Biosynthesis of Fumonisin. <i>ACS Symposium Series</i> , 2010, , 167-182.	0.5	3
78	High-level production of soluble adenine nucleotide translocator from <i>Schistosoma japonicum</i> in <i>E. coli</i> cell-free system. <i>Process Biochemistry</i> , 2012, 47, 395-400.	3.7	2
79	Genome mining of novel rubiginones from <i>Streptomyces</i> sp. CB02414 and characterization of the post-PKS modification steps in rubiginone biosynthesis. <i>Microbial Cell Factories</i> , 2021, 20, 192.	4.0	2
80	A 3-hydroxy-3-methylglutaryl-CoA synthase-based probe for the discovery of the acyltransferase-less type I polyketide synthases. <i>Environmental Microbiology</i> , 2019, 21, 4270-4282.	3.8	1
81	Deoxidized gulose moiety attenuates the pulmonary toxicity of 6'-deoxy-bleomycin Z without effect on its antitumor activity. <i>Biomedicine and Pharmacotherapy</i> , 2021, 136, 111222.	5.6	0