

Gang Liu

List of Publications by Year in descending order

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62
papers

1,951
citations

257450

24
h-index

265206

42
g-index

65
all docs

65
docs citations

65
times ranked

1922
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Regulation of Antibiotic Biosynthesis in Streptomyces. Microbiology and Molecular Biology Reviews, 2013, 77, 112-143.	6.6	611
2	A pathway-specific transcriptional regulatory gene for nikkomycin biosynthesis in Streptomyces ansochromogenes that also influences colony development. Molecular Microbiology, 2005, 55, 1855-1866.	2.5	102
3	Genomic and transcriptomic analysis of the endophytic fungus Pestalotiopsis fici reveals its lifestyle and high potential for synthesis of natural products. BMC Genomics, 2015, 16, 28.	2.8	102
4	The pleiotropic regulator AdpA directly controls the pathway-specific activator of nikkomycin biosynthesis in Streptomyces ansochromogenes. Molecular Microbiology, 2009, 72, 710-723.	2.5	63
5	Identification of the First Diphenyl Ether Gene Cluster for Pestheic Acid Biosynthesis in Plant Endophyte Pestalotiopsis fici. ChemBioChem, 2014, 15, 284-292.	2.6	60
6	polR, a pathway-specific transcriptional regulatory gene, positively controls polyoxin biosynthesis in Streptomyces cacaoi subsp. asoensis. Microbiology (United Kingdom), 2009, 155, 1819-1831.	1.8	45
7	Spiroketal of Pestalotiopsis fici Provide Evidence for a Biosynthetic Hypothesis Involving Diversified Diels-Alder Reaction Cascades. Journal of Organic Chemistry, 2013, 78, 2992-3000.	3.2	45
8	Poly, a transcriptional regulator with ATPase activity, directly activates transcription of polR in polyoxin biosynthesis in Streptomyces cacaoi. Molecular Microbiology, 2010, 75, 349-364.	2.5	41
9	Analysis of Secondary Metabolites from Plant Endophytic Fungi. Methods in Molecular Biology, 2018, 1848, 25-38.	0.9	41
10	Targeted Inactivation of the mecB Gene, Encoding Cystathionine-Î³-Lyase, Shows that the Reverse Transsulfuration Pathway Is Required for High-Level Cephalosporin Biosynthesis in Acremonium chrysogenum C10 but Not for Methionine Induction of the Cephalosporin Genes. Journal of Bacteriology, 2001, 183, 1765-1772.	2.2	38
11	Neonectrolide A, a New Oxaphenalenone Spiroketal from the Fungus Neonectria sp.. Organic Letters, 2012, 14, 6226-6229.	4.6	36
12	Importance and regulation of inositol biosynthesis during growth and differentiation of Streptomyces. Molecular Microbiology, 2012, 83, 1178-1194.	2.5	33
13	Disruption of the nitrogen regulatory gene AcareA in Acremonium chrysogenum leads to reduction of cephalosporin production and repression of nitrogen metabolism. Fungal Genetics and Biology, 2013, 61, 69-79.	2.1	33
14	Characterization of a Prenyltransferase for Iso-A82775C Biosynthesis and Generation of New Congeners of Chloropestolides. ACS Chemical Biology, 2018, 13, 703-711.	3.4	33
15	The tyrosine degradation gene hppD is transcriptionally activated by HpdA and repressed by HpdR in Streptomyces coelicolor, while hpdA is negatively autoregulated and repressed by HpdR. Molecular Microbiology, 2007, 65, 1064-1077.	2.5	32
16	AcstuaA, which encodes an APSES transcription regulator, is involved in conidiation, cephalosporin biosynthesis and cell wall integrity of Acremonium chrysogenum. Fungal Genetics and Biology, 2015, 83, 26-40.	2.1	32
17	The role of a purine-specific nucleoside hydrolase in spore germination of Bacillus thuringiensis. Microbiology (United Kingdom), 2008, 154, 1333-1340.	1.8	31
18	SanM catalyzes the formation of 4-pyridyl-2-oxo-4-hydroxyisovalerate in nikkomycin biosynthesis by interacting with SanN. Biochemical and Biophysical Research Communications, 2007, 361, 196-201.	2.1	29

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19	SanG, a transcriptional activator, controls nikkomycin biosynthesis through binding to the sanN-sanO intergenic region in <i>Streptomyces ansochromogenes</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 828-837.	1.8	29
20	New Bergamotane Sesquiterpenoids from the Plant Endophytic Fungus <i>Paraconiothyrium brasiliense</i> . <i>Molecules</i> , 2015, 20, 14611-14620.	3.8	28
21	A Spiro[chroman-3,7-isochromene]-4,6-dione from the Cordyceps-Colonizing Fungus <i>Fimetariella</i> sp.. <i>Organic Letters</i> , 2012, 14, 3320-3323.	4.6	26
22	Identification of the gene cluster for bistropolone-humulene meroterpenoid biosynthesis in <i>Phoma</i> sp.. <i>Fungal Genetics and Biology</i> , 2019, 129, 7-15.	2.1	26
23	SanJ, an ATP-dependent picolinate-CoA ligase, catalyzes the conversion of picolinate to picolinate-CoA during nikkomycin biosynthesis in <i>Streptomyces ansochromogenes</i> . <i>Metabolic Engineering</i> , 2006, 8, 183-195.	7.0	25
24	Disruption of a glutathione reductase encoding gene in <i>Acremonium chrysogenum</i> leads to reduction of its growth, cephalosporin production and antioxidative ability which is recovered by exogenous methionine. <i>Fungal Genetics and Biology</i> , 2012, 49, 114-122.	2.1	25
25	A septation related gene <i>AcsepH</i> in <i>Acremonium chrysogenum</i> is involved in the cellular differentiation and cephalosporin production. <i>Fungal Genetics and Biology</i> , 2013, 50, 11-20.	2.1	21
26	SabR enhances nikkomycin production via regulating the transcriptional level of <i>sanG</i> , a pathway-specific regulatory gene in <i>Streptomyces ansochromogenes</i> . <i>BMC Microbiology</i> , 2011, 11, 164.	3.3	19
27	Identification and characterization of the verticillin biosynthetic gene cluster in <i>Clonostachys rogersoniana</i> . <i>Fungal Genetics and Biology</i> , 2017, 103, 25-33.	2.1	19
28	Amplification of an MFS Transporter Encoding Gene <i>penT</i> Significantly Stimulates Penicillin Production and Enhances the Sensitivity of <i>Penicillium chrysogenum</i> to Phenylacetic Acid. <i>Journal of Genetics and Genomics</i> , 2012, 39, 593-602.	3.9	18
29	The autophagy-related gene <i>Acatg1</i> is involved in conidiation and cephalosporin production in <i>Acremonium chrysogenum</i> . <i>Fungal Genetics and Biology</i> , 2014, 69, 65-74.	2.1	17
30	Over-expression of <i>pcvA</i> involved in vesicle-vacuolar fusion affects the conidiation and penicillin production in <i>Penicillium chrysogenum</i> . <i>Biotechnology Letters</i> , 2012, 34, 519-526.	2.2	16
31	Identification and Characterization of <i>sanH</i> and <i>sanI</i> Involved in the Hydroxylation of Pyridyl Residue During Nikkomycin Biosynthesis in <i>Streptomyces ansochromogenes</i> . <i>Current Microbiology</i> , 2007, 55, 537-542.	2.2	15
32	COP9 signalosome subunit <i>PfCsnE</i> regulates secondary metabolism and conidial formation in <i>Pestalotiopsis fici</i> . <i>Science China Life Sciences</i> , 2017, 60, 656-664.	4.9	15
33	Improvement of the CRISPR-Cas9 mediated gene disruption and large DNA fragment deletion based on a chimeric promoter in <i>Acremonium chrysogenum</i> . <i>Fungal Genetics and Biology</i> , 2020, 134, 103279.	2.1	15
34	The thioredoxin reductase-encoding gene <i>ActrxR1</i> is involved in the cephalosporin C production of <i>Acremonium chrysogenum</i> in methionine-supplemented medium. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2551-2562.	3.6	14
35	A GATA-type transcription factor <i>AcAREB</i> for nitrogen metabolism is involved in regulation of cephalosporin biosynthesis in <i>Acremonium chrysogenum</i> . <i>Science China Life Sciences</i> , 2017, 60, 958-967.	4.9	14
36	Rogersonins A and B, Imidazolone <i>N</i> -Oxide-Incorporating Indole Alkaloids from a <i>verG</i> Disruption Mutant of <i>Clonostachys rogersoniana</i> . <i>Journal of Natural Products</i> , 2019, 82, 462-468.	3.0	14

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37	Cloning and Identification of a Gene Encoding Spore Cortex-Lytic Enzyme in <i>Bacillus thuringiensis</i> . <i>Current Microbiology</i> , 2007, 54, 292-295.	2.2	13
38	Disruption of rimP-SC, encoding a ribosome assembly cofactor, markedly enhances the production of several antibiotics in <i>Streptomyces coelicolor</i> . <i>Microbial Cell Factories</i> , 2013, 12, 65.	4.0	13
39	Regulation of myo-inositol catabolism by a GntR-type repressor SCO6974 in <i>Streptomyces coelicolor</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3141-3153.	3.6	13
40	Functional analysis of the selective autophagy related gene Acatg11 in <i>Acremonium chrysogenum</i> . <i>Fungal Genetics and Biology</i> , 2017, 107, 67-76.	2.1	13
41	SCO3129, a TetR family regulator, is responsible for osmotic stress in <i>Streptomyces coelicolor</i> . <i>Synthetic and Systems Biotechnology</i> , 2018, 3, 261-267.	3.7	10
42	Heterologous Biosynthesis of the Fungal Sesquiterpene Trichodermol in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1773.	3.5	10
43	Metabolic engineering of <i>Acremonium chrysogenum</i> for improving cephalosporin C production independent of methionine stimulation. <i>Microbial Cell Factories</i> , 2018, 17, 87.	4.0	9
44	Avermectin B1a production in <i>Streptomyces avermitilis</i> is enhanced by engineering aveC and precursor supply genes. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2191-2205.	3.6	9
45	A Regulatory Gene SCO2140 is Involved in Antibiotic Production and Morphological Differentiation of <i>Streptomyces coelicolor</i> A3(2). <i>Current Microbiology</i> , 2016, 73, 196-201.	2.2	8
46	Enhancing the production of cephalosporin C through modulating the autophagic process of <i>Acremonium chrysogenum</i> . <i>Microbial Cell Factories</i> , 2018, 17, 175.	4.0	8
47	Sorbicillinoid Derivatives with the Radical Scavenging Activities from the Marine-Derived Fungus <i>Acremonium chrysogenum</i> C10. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 530.	3.5	8
48	Metatranscriptomics Unravel Composition, Drivers, and Functions of the Active Microorganisms in Light-Flavor Liquor Fermentation. <i>Microbiology Spectrum</i> , 2022, 10, .	3.0	8
49	Autoregulation of hpdR and its effect on CDA biosynthesis in <i>Streptomyces coelicolor</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 2641-2648.	1.8	7
50	Expression of cefF significantly decreased deacetoxycephalosporin C formation during cephalosporin C production in <i>Acremonium chrysogenum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 269-274.	3.0	7
51	GntR family regulator SCO6256 is involved in antibiotic production and conditionally regulates the transcription of myo-inositol catabolic genes in <i>Streptomyces coelicolor</i> A3(2). <i>Microbiology (United Kingdom)</i> , 2017, 157, 2641-2648.	3.7	7
52	Identification and characterization of sawC, a whiA-like gene, essential for sporulation in <i>Streptomyces ansochromogenes</i> . <i>Archives of Microbiology</i> , 2007, 188, 575-582.	2.2	6
53	A Myb transcription factor represses conidiation and cephalosporin C production in <i>Acremonium chrysogenum</i> . <i>Fungal Genetics and Biology</i> , 2018, 118, 1-9.	2.1	6
54	Identification and Characterization of an Autophagy-Related Gene Acatg12 in <i>Acremonium chrysogenum</i> . <i>Current Microbiology</i> , 2019, 76, 545-551.	2.2	6

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55	VerZ, a Zn(II)2Cys6 DNA-binding protein, regulates the biosynthesis of verticillin in <i>Clonostachys rogersoniana</i> . <i>Microbiology (United Kingdom)</i> , 2017, 163, 1654-1663.	1.8	6
56	Remarkable enhancement of bleomycin production through precise amplification of its biosynthetic gene cluster in <i>Streptomyces verticillus</i> . <i>Science China Life Sciences</i> , 2022, 65, 1248-1256.	4.9	6
57	Multiplying the heterologous production of spinosad through tandem amplification of its biosynthetic gene cluster in <i>Streptomyces coelicolor</i> . <i>Microbial Biotechnology</i> , 2021, , .	4.2	5
58	The disruption of <i>verM</i> activates the production of gliocladiosin A and B in <i>Clonostachys rogersoniana</i> . <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 6782-6785.	2.8	4
59	The application of CRISPR/Cas9 in genome editing of filamentous fungi. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , 2017, 39, 355-367.	0.2	4
60	A novel gene "samFR" involved in early stage of <i>Streptomyces ansochromogenes</i> differentiation. <i>Science in China Series C: Life Sciences</i> , 1999, 42, 570-576.	1.3	1
61	Characterization of EndoTT, a novel single-stranded DNA-specific endonuclease from <i>Thermoanaerobacter tengcongensis</i> . <i>Nucleic Acids Research</i> , 2010, 38, 3709-3720.	14.5	1
62	Research advances on microbial genetics in China in 2015. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , 2016, 38, 765-90.	0.2	0