

Liangcheng Du

List of Publications by Year in descending order

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67
papers

3,046
citations

159585

30
h-index

161849

54
g-index

70
all docs

70
docs citations

70
times ranked

2344
citing authors

#	ARTICLE	IF	CITATIONS
1	PKS and NRPS release mechanisms. <i>Natural Product Reports</i> , 2010, 27, 255-278.	10.3	299
2	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
3	Distinct Ceramide Synthases Regulate Polarized Growth in the Filamentous Fungus <i>Aspergillus nidulans</i> . <i>Molecular Biology of the Cell</i> , 2006, 17, 1218-1227.	2.1	195
4	Biosynthesis of HSAF, a Tetramic Acid-Containing Macrolactam from <i>Lysobacter enzymogenes</i> . <i>Journal of the American Chemical Society</i> , 2011, 133, 643-645.	13.7	186
5	Bioactive natural products from <i>Lysobacter</i> . <i>Natural Product Reports</i> , 2012, 29, 1277.	10.3	160
6	Cloning and characterization of a phosphopantetheinyl transferase from <i>Streptomyces verticillus</i> ATCC15003, the producer of the hybrid peptide-polyketide antitumor drug bleomycin. <i>Chemistry and Biology</i> , 2001, 8, 725-738.	6.0	157
7	Complete genome sequence and transcriptomics analyses reveal pigment biosynthesis and regulatory mechanisms in an industrial strain, <i>Monascus purpureus</i> YY-1. <i>Scientific Reports</i> , 2015, 5, 8331.	3.3	104
8	Identification and Characterization of the Anti-Methicillin-Resistant <i>Staphylococcus aureus</i> WAP-8294A2 Biosynthetic Gene Cluster from <i>Lysobacter enzymogenes</i> OH11. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5581-5589.	3.2	93
9	Iterative polyketide biosynthesis by modular polyketide synthases in bacteria. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 541-557.	3.6	85
10	<i>Lysobacter enzymogenes</i> Uses Two Distinct Cell-Cell Signaling Systems for Differential Regulation of Secondary-Metabolite Biosynthesis and Colony Morphology. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6604-6616.	3.1	82
11	Iterative Assembly of Two Separate Polyketide Chains by the Same Single-Module Bacterial Polyketide Synthase in the Biosynthesis of HSAF. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7524-7530.	13.8	72
12	Bioactive Polycyclic Tetramate Macrolactams from <i>Lysobacter enzymogenes</i> and Their Absolute Configurations by Theoretical ECD Calculations. <i>Journal of Natural Products</i> , 2015, 78, 1841-1847.	3.0	71
13	Transcriptomic analysis reveals new regulatory roles of Clp signaling in secondary metabolite biosynthesis and surface motility in <i>Lysobacter enzymogenes</i> OH11. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9009-9020.	3.6	70
14	Identification of a small molecule signaling factor that regulates the biosynthesis of the antifungal polycyclic tetramate macrolactam HSAF in <i>Lysobacter enzymogenes</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 801-811.	3.6	67
15	HSAF-induced antifungal effects in <i>Candida albicans</i> through ROS-mediated apoptosis. <i>RSC Advances</i> , 2016, 6, 30895-30904.	3.6	65
16	Roles of a Solo LuxR in the Biological Control Agent <i>Lysobacter enzymogenes</i> Strain OH11. <i>Phytopathology</i> , 2014, 104, 224-231.	2.2	63
17	Heterocyclic Aromatic N-Oxidation in the Biosynthesis of Phenazine Antibiotics from <i>Lysobacter antibioticus</i> . <i>Organic Letters</i> , 2016, 18, 2495-2498.	4.6	63
18	Biosynthesis of the Polycyclic System in the Antifungal HSAF and Analogues from <i>Lysobacter enzymogenes</i> . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6221-6225.	13.8	53

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19	Alteramide B is a microtubule antagonist of inhibiting <i>Candida albicans</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2097-2106.	2.4	50
20	3-Hydroxylation of the polycyclic tetramate macrolactam in the biosynthesis of antifungal HSAF from <i>Lysobacter enzymogenes</i> C3. <i>MedChemComm</i> , 2012, 3, 982.	3.4	48
21	Unusual Activities of the Thioesterase Domain for the Biosynthesis of the Polycyclic Tetramate Macrolactam HSAF in <i>Lysobacter enzymogenes</i> C3. <i>Biochemistry</i> , 2012, 51, 4-6.	2.5	43
22	Induction of Cell Wall Thickening by the Antifungal Compound Dihydromaltophilin Disrupts Fungal Growth and is Mediated by Sphingolipid Biosynthesis. <i>Journal of Eukaryotic Microbiology</i> , 2009, 56, 182-187.	1.7	40
23	Observing the invisible through imaging mass spectrometry, a window into the metabolic exchange patterns of microbes. <i>Journal of Proteomics</i> , 2012, 75, 5069-5076.	2.4	39
24	Biosynthetic Mechanism for Sunscreens of the Biocontrol Agent <i>Lysobacter enzymogenes</i> . <i>PLoS ONE</i> , 2013, 8, e66633.	2.5	39
25	PilG is Involved in the Regulation of Twitching Motility and Antifungal Antibiotic Biosynthesis in the Biological Control Agent <i>Lysobacter enzymogenes</i> . <i>Phytopathology</i> , 2015, 105, 1318-1324.	2.2	37
26	4-Hydroxybenzoic acid is a diffusible factor that connects metabolic shikimate pathway to the biosynthesis of a unique antifungal metabolite in <i>Lysobacter enzymogenes</i> . <i>Molecular Microbiology</i> , 2017, 104, 163-178.	2.5	37
27	Functional and Structural Analysis of Phenazine-O-Methyltransferase LaPhzM from <i>Lysobacter antibioticus</i> OH13 and One-Pot Enzymatic Synthesis of the Antibiotic Myxin. <i>ACS Chemical Biology</i> , 2018, 13, 1003-1012.	3.4	35
28	Transcriptional and Antagonistic Responses of Biocontrol Strain <i>Lysobacter enzymogenes</i> OH11 to the Plant Pathogenic Oomycete <i>Pythium aphanidermatum</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 1025.	3.5	34
29	BlmIII and BlmIV Nonribosomal Peptide Synthetase-Catalyzed Biosynthesis of the Bleomycin Bithiazole Moiety Involving Both in Cis and in Trans Aminoacylation. <i>Biochemistry</i> , 2003, 42, 9731-9740.	2.5	32
30	Indole-Induced Reversion of Intrinsic Multiantibiotic Resistance in <i>Lysobacter enzymogenes</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	32
31	Indole Reverses Intrinsic Antibiotic Resistance by Activating a Novel Dual-Function Importer. <i>MBio</i> , 2019, 10, .	4.1	31
32	Yield Improvement of the Anti-MRSA Antibiotics WAP-8294A by CRISPR/dCas9 Combined with Refactoring Self-Protection Genes in <i>Lysobacter enzymogenes</i> OH11. <i>ACS Synthetic Biology</i> , 2018, 7, 258-266.	3.8	30
33	Facile Method for Site-specific Gene Integration in <i>Lysobacter enzymogenes</i> for Yield Improvement of the Anti-MRSA Antibiotics WAP-8294A and the Antifungal Antibiotic HSAF. <i>ACS Synthetic Biology</i> , 2013, 2, 670-678.	3.8	29
34	Targeted Discovery and Combinatorial Biosynthesis of Polycyclic Tetramate Macrolactam Combamides. <i>Organic Letters</i> , 2018, 20, 3504-3508.	4.6	28
35	Direct Regulation of Extracellular Chitinase Production by the Transcription Factor <i>LeClp</i> in <i>Lysobacter enzymogenes</i> OH11. <i>Phytopathology</i> , 2016, 106, 971-977.	2.2	27
36	Involvement of both PKS and NRPS in antibacterial activity in <i>Lysobacter enzymogenes</i> OH11. <i>FEMS Microbiology Letters</i> , 2014, 355, 170-176.	1.8	23

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37	A TonB-dependent receptor regulates antifungal HSAF biosynthesis in <i>Lysobacter</i> . <i>Scientific Reports</i> , 2016, 6, 26881.	3.3	22
38	Optimization of genome shuffling for high-yield production of the antitumor deacetylmycoepoxydiene in an endophytic fungus of mangrove plants. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7491-7498.	3.6	22
39	Fatty acyl incorporation in the biosynthesis of WAP-8294A, a group of potent anti-MRSA cyclic lipodepsipeptides. <i>RSC Advances</i> , 2015, 5, 105753-105759.	3.6	16
40	Identification of an Anti-MRSA Cyclic Lipodepsipeptide, WBP-29479A1, by Genome Mining of <i>Lysobacter antibioticus</i> . <i>Organic Letters</i> , 2019, 21, 6432-6436.	4.6	16
41	Outer Membrane Vesicle-Mediated Codelivery of the Antifungal HSAF Metabolites and Lytic Polysaccharide Monooxygenase in the Predatory <i>Lysobacter enzymogenes</i> . <i>ACS Chemical Biology</i> , 2021, 16, 1079-1089.	3.4	16
42	Activation of a Cryptic Gene Cluster in <i>Lysobacter enzymogenes</i> Reveals a Module/Domain Portable Mechanism of Nonribosomal Peptide Synthetases in the Biosynthesis of Pyrrolopyrazines. <i>Organic Letters</i> , 2017, 19, 5010-5013.	4.6	15
43	Interspecies and Intraspecies Signals Synergistically Regulate <i>Lysobacter enzymogenes</i> Twitching Motility. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	15
44	Biosynthesis, regulation, and engineering of natural products from <i>Lysobacter</i> . <i>Natural Product Reports</i> , 2022, 39, 842-874.	10.3	13
45	An in vitro system to study cyclopeptide heterophyllin B biosynthesis in the medicinal plant <i>Pseudostellaria heterophylla</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2012, 108, 137-145.	2.3	10
46	Spermidine-Regulated Biosynthesis of Heat-Stable Antifungal Factor (HSAF) in <i>Lysobacter enzymogenes</i> OH11. <i>Frontiers in Microbiology</i> , 2018, 9, 2984.	3.5	10
47	Construction of a hybrid gene cluster to reveal coupled ring formation-hydroxylation in the biosynthesis of HSAF and analogues from <i>Lysobacter enzymogenes</i> . <i>MedChemComm</i> , 2019, 10, 907-912.	3.4	10
48	Identification of the Biosynthetic Gene Cluster for the anti-MRSA Lysocins through Gene Cluster Activation Using Strong Promoters of Housekeeping Genes and Production of New Analogs in <i>Lysobacter</i> sp. 3655. <i>ACS Synthetic Biology</i> , 2020, 9, 1989-1997.	3.8	10
49	Unusual acylation of chloramphenicol in <i>Lysobacter enzymogenes</i> , a biocontrol agent with intrinsic resistance to multiple antibiotics. <i>BMC Biotechnology</i> , 2017, 17, 59.	3.3	9
50	Hybrid Peptide-Polyketide Natural Products: Biosynthesis and Prospects Towards Engineering Novel Molecules. , 2003, 25, 227-267.		9
51	Systematic optimization for production of the anti-MRSA antibiotics WAP-8294A in an engineered strain of <i>Lysobacter enzymogenes</i> . <i>Microbial Biotechnology</i> , 2019, 12, 1430-1440.	4.2	8
52	OX4 Is an NADPH-Dependent Dehydrogenase Catalyzing an Extended Michael Addition Reaction To Form the Six-Membered Ring in the Antifungal HSAF. <i>Biochemistry</i> , 2019, 58, 5245-5248.	2.5	8
53	Vib-PT, an Aromatic Prenyltransferase Involved in the Biosynthesis of Vibralactone from <i>Stereum vibrans</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	8
54	An Antifungal Polycyclic Tetramate Macrolactam, Heat-Stable Antifungal Factor (HSAF), Is a Novel Oxidative Stress Modulator in <i>Lysobacter enzymogenes</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	8

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55	Synthesis of a 2,4,6,8,10-dodecapentanoic acid thioester as a substrate for biosynthesis of heat stable antifungal factor (HSAF). RSC Advances, 2015, 5, 11644-11648.	3.6	7
56	<i>Lysobacter enzymogenes</i> Employs Diverse Genes for Inhibiting Hypha Growth and Spore Germination of Soybean Fungal Pathogens. Phytopathology, 2020, 110, 593-602.	2.2	7
57	Transformation of <i>Fusarium verticillioides</i> with a polyketide gene cluster isolated from a fungal endophyte activates the biosynthesis of fusaric acid. Mycology, 2011, 2, 24-29.	4.4	5
58	Ice nucleation in a Gram-positive bacterium isolated from precipitation depends on a polyketide synthase and non-ribosomal peptide synthetase. ISME Journal, 2022, 16, 890-897.	9.8	4
59	Developing a new treatment for superficial fungal infection using antifungal <i>Collagen-HSAF</i> dressing. Bioengineering and Translational Medicine, 2022, 7, .	7.1	4
60	Biochemical and Molecular Analysis of the Biosynthesis of Fumonisin. ACS Symposium Series, 2007, , 81-96.	0.5	3
61	Advances in Understanding the Biosynthesis of Fumonisin. ACS Symposium Series, 2010, , 167-182.	0.5	3
62	Visualizing small differences using subtractive chromatographic analysis. Journal of Chromatography A, 2016, 1468, 245-249.	3.7	3
63	LeTetR Positively Regulates 3-Hydroxylation of the Antifungal HSAF and Its Analogs in <i>Lysobacter enzymogenes</i> OH11. Molecules, 2020, 25, 2286.	3.8	3
64	Cytotoxic Polyketides with an Oxygen-Bridged Cyclooctadiene Core Skeleton from the Mangrove Endophytic Fungus <i>Phomopsis</i> sp. A818. Molecules, 2017, 22, 1547.	3.8	3
65	PRODUCTION OF NEW WAP-8294A CYCLODEPSIPEPTIDES BY THE BIOLOGICAL CONTROL AGENT <i>LYSOBACTER ENZYMOGENES</i> OH11. Frontiers of Agricultural Science and Engineering, 2022, 9, 120.	1.4	2
66	Biosynthesis of the Polycyclic System in the Antifungal HSAF and Analogues from <i>Lysobacter enzymogenes</i> . Angewandte Chemie, 2018, 130, 6329-6333.	2.0	1
67	Biosynthesis of Odd-Carbon Unsaturated Fatty Dicarboxylic Acids Through Engineering the HSAF Biosynthetic Gene in <i>Lysobacter enzymogenes</i> . Molecular Biotechnology, 0, , .	2.4	0