Zixin Deng

List of Publications by Year
in descending order

182	6,709	81743	85405
papers	citations	39 h-index	71 g-index

185	185	185	7726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A small-molecule dye for NIR-II imaging. Nature Materials, 2016, 15, 235-242.	13.3	1,314
2	Lipid engineering combined with systematic metabolic engineering of Saccharomyces cerevisiae for high-yield production of lycopene. Metabolic Engineering, 2019, 52, 134-142.	3.6	251
3	In vitro reconstitution of mevalonate pathway and targeted engineering of farnesene overproduction in Escherichia coli. Biotechnology and Bioengineering, 2014, 111, 1396-1405.	1.7	182
4	Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux. Nature Communications, 2019, 10, 4248.	5.8	158
5	Hexafluoroisopropanol-based hydrophobic deep eutectic solvents for dispersive liquid-liquid microextraction of pyrethroids in tea beverages and fruit juices. Food Chemistry, 2019, 274, 891-899.	4.2	123
6	Highly efficient editing of the actinorhodin polyketide chain length factor gene in Streptomyces coelicolor M145 using CRISPR/Cas9-CodA(sm) combined system. Applied Microbiology and Biotechnology, 2015, 99, 10575-10585.	1.7	122
7	Mitofilin and CHCHD6 physically interact with Sam50 to sustain cristae structure. Scientific Reports, 2015, 5, 16064.	1.6	99
8	Strategies for terpenoid overproduction and new terpenoid discovery. Current Opinion in Biotechnology, 2017, 48, 234-241.	3.3	99
9	Metabolic engineering of fatty acyl-ACP reductase-dependent pathway to improve fatty alcohol production in Escherichia coli. Metabolic Engineering, 2014, 22, 10-21.	3.6	95
10	Advances in CRISPR-Cas systems for RNA targeting, tracking and editing. Biotechnology Advances, 2019, 37, 708-729.	6.0	95
11	Releasing the potential power of terpene synthases by a robust precursor supply platform. Metabolic Engineering, 2017, 42, 1-8.	3.6	93
12	DNA phosphorothioate modificationâ€"a new multi-functional epigenetic system in bacteria. FEMS Microbiology Reviews, 2019, 43, 109-122.	3.9	87
13	SspABCDâ€"SspE is a phosphorothioation-sensing bacterial defence system with broad anti-phage activities. Nature Microbiology, 2020, 5, 917-928.	5.9	86
14	Systematic Metabolic Engineering of Saccharomyces cerevisiae for Lycopene Overproduction. Journal of Agricultural and Food Chemistry, 2019, 67, 11148-11157.	2.4	79
15	Genetic mechanisms of arsenic detoxification and metabolism in bacteria. Current Genetics, 2019, 65, 329-338.	0.8	77
16	Occurrence, evolution, and functions of DNA phosphorothioate epigenetics in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2988-E2996.	3.3	72
17	Discovery of non-squalene triterpenes. Nature, 2022, 606, 414-419.	13.7	71
18	Heterologous Biosynthesis of Spinosad: An Omics-Guided Large Polyketide Synthase Gene Cluster Reconstitution in Streptomyces. ACS Synthetic Biology, 2017, 6, 995-1005.	1.9	70

#	Article	IF	Citations
19	Engineering an iterative polyketide pathway in Escherichia coli results in single-form alkene and alkane overproduction. Metabolic Engineering, 2015, 28, 82-90.	3.6	68
20	Convergence of DNA methylation and phosphorothioation epigenetics in bacterial genomes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4501-4506.	3.3	64
21	Delineating the Biosynthesis of Gentamicin X2, the Common Precursor of the Gentamicin C Antibiotic Complex. Chemistry and Biology, 2015, 22, 251-261.	6.2	60
22	In Vitro CRISPR/Cas9 System for Efficient Targeted DNA Editing. MBio, 2015, 6, e01714-15.	1.8	59
23	A Clade IIâ€Ð Fungal Chimeric Diterpene Synthase from Colletotrichum gloeosporioides Produces Dolastaâ€1(15),8â€diene. Angewandte Chemie - International Edition, 2018, 57, 15887-15890.	7.2	57
24	Genome mining of astaxanthin biosynthetic genes from Sphingomonas sp. ATCC 55669 for heterologous overproduction in Escherichia coli. Biotechnology Journal, 2016, 11, 228-237.	1.8	56
25	Metabolic engineering of Escherichia coli for production of fatty acid short-chain esters through combination of the fatty acid and 2-keto acid pathways. Metabolic Engineering, 2014, 22, 69-75.	3.6	55
26	A new type of DNA phosphorothioation-based antiviral system in archaea. Nature Communications, 2019, 10, 1688.	5.8	54
27	The Biological Activities of Sesterterpenoid-Type Ophiobolins. Marine Drugs, 2017, 15, 229.	2.2	53
28	Efficient biosynthesis of heterodimeric C3-aryl pyrroloindoline alkaloids. Nature Communications, 2018, 9, 4428.	5.8	53
29	Gut microbiome interventions in human health and diseases. Medicinal Research Reviews, 2019, 39, 2286-2313.	5.0	52
30	Engineering and modification of microbial chassis for systems and synthetic biology. Synthetic and Systems Biotechnology, 2019, 4, 25-33.	1.8	52
31	Enantioselective Synthesis of 1-Aryl-Substituted Tetrahydroisoquinolines Employing Imine Reductase. ACS Catalysis, 2017, 7, 7003-7007.	5.5	51
32	Synthesis and biological evaluation of salinomycin triazole analogues as anticancer agents. European Journal of Medicinal Chemistry, 2017, 127, 900-908.	2.6	51
33	CRISPR/Cas9-Based Editing of Streptomyces for Discovery, Characterization, and Production of Natural Products. Frontiers in Microbiology, 2018, 9, 1660.	1.5	49
34	Characterization of the Biosynthetic Gene Cluster for Benzoxazole Antibiotics A33853 Reveals Unusual Assembly Logic. Chemistry and Biology, 2015, 22, 1313-1324.	6.2	48
35	3Î²-Hydroxysteroid dehydrogenase expressed by gut microbes degrades testosterone and is linked to depression in males. Cell Host and Microbe, 2022, 30, 329-339.e5.	5.1	45
36	Enhanced Purification of Ubiquitinated Proteins by Engineered Tandem Hybrid Ubiquitin-binding Domains (ThUBDs). Molecular and Cellular Proteomics, 2016, 15, 1381-1396.	2.5	44

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37	Activation of Natural Products Biosynthetic Pathways via a Protein Modification Level Regulation. ACS Chemical Biology, 2017, 12, 1732-1736.	1.6	44
38	Uncovering the Formation and Selection of Benzylmalonyl-CoA from the Biosynthesis of Splenocin and Enterocin Reveals a Versatile Way to Introduce Amino Acids into Polyketide Carbon Scaffolds. Journal of the American Chemical Society, 2015, 137, 4183-4190.	6.6	43
39	The Catalytic Mechanism of the Class C Radical Sâ€Adenosylmethionine Methyltransferase NosN. Angewandte Chemie - International Edition, 2017, 56, 3857-3861.	7.2	42
40	Use of a Tyrosine Analogue To Modulate the Two Activities of a Nonheme Iron Enzyme OvoA in Ovothiol Biosynthesis, Cysteine Oxidation versus Oxidative Câ€“S Bond Formation. Journal of the American Chemical Society, 2018, 140, 4604-4612.	6.6	42
41	Methyltransferases of gentamicin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1340-1345.	3.3	41
42	DNA phosphorothioate modifications influence the global transcriptional response and protect DNA from double-stranded breaks. Scientific Reports, 2014, 4, 6642.	1.6	40
43	Deciphering Piperidine Formation in Polyketide-Derived Indolizidines Reveals a Thioester Reduction, Transamination, and Unusual Imine Reduction Process. ACS Chemical Biology, 2016, 11, 3278-3283.	1.6	40
44	Natural and engineered biosynthesis of nucleoside antibiotics in Actinomycetes. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 401-417.	1.4	40
45	Biosynthesis of Neocarazostatin A Reveals the Sequential Carbazole Prenylation and Hydroxylation in the Tailoring Steps. Chemistry and Biology, 2015, 22, 1633-1642.	6.2	39
46	Production of taxadiene by engineering of mevalonate pathway in Escherichia coli and endophytic fungus Alternaria alternata TPF6. Biotechnology Journal, 2017, 12, 1600697.	1.8	39
47	Identification and optimization of 2â€aminobenzimidazole derivatives as novel inhibitors of <scp>TRPC</scp>4 and <scp>TRPC</scp>5 channels. British Journal of Pharmacology, 2015, 172, 3495-3509.	2.7	38
48	Characterization of a C3 Deoxygenation Pathway Reveals a Key Branch Point in Aminoglycoside Biosynthesis. Journal of the American Chemical Society, 2016, 138, 6427-6435.	6.6	38
49	An Unusual Protector-ProtÃ©gÃ© Strategy for the Biosynthesis of Purine Nucleoside Antibiotics. Cell Chemical Biology, 2017, 24, 171-181.	2.5	38
50	Microbial production strategies and applications of lycopene and other terpenoids. World Journal of Microbiology and Biotechnology, 2016, 32, 15.	1.7	37
51	Semisynthesis of Plant-Derived Englerin A Enabled by Microbe Engineering of Guaia-6,10(14)-diene as Building Block. Journal of the American Chemical Society, 2020, 142, 2760-2765.	6.6	36
52	Synthetic Genomics: From DNA Synthesis to Genome Design. Angewandte Chemie - International Edition, 2018, 57, 1748-1756.	7.2	35
53	A Dual Role Reductase from Phytosterols Catabolism Enables the Efficient Production of Valuable Steroid Precursors. Angewandte Chemie - International Edition, 2021, 60, 5414-5420.	7.2	35
54	Microbial transformation of benzothiophenes, with carbazole as the auxiliary substrate, by Sphingomonas sp. strain XLDN2-5. Microbiology (United Kingdom), 2008, 154, 3804-3812.	0.7	34

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55	A biocatalytic hydroxylation-enabled unified approach to C19-hydroxylated steroids. Nature Communications, 2019, 10, 3378.	5.8	34
56	Sesterterpene ophiobolin biosynthesis involving multiple gene clusters in Aspergillus ustus. Scientific Reports, 2016, 6, 27181.	1.6	33
57	Efficient editing DNA regions with high sequence identity in actinomycetal genomes by a CRISPR-Cas9 system. Synthetic and Systems Biotechnology, 2019, 4, 86-91.	1.8	33
58	Efficient exploration of terpenoid biosynthetic gene clusters in filamentous fungi. Nature Catalysis, 2022, 5, 277-287.	16.1	33
59	Nitrogenâ€“Nitrogen Bond Formation Reactions Involved in Natural Product Biosynthesis. ACS Chemical Biology, 2021, 16, 559-570.	1.6	32
60	Structural Basis of a Broadly Selective Acyltransferase from the Polyketide Synthase of Splenocin. Angewandte Chemie - International Edition, 2018, 57, 5823-5827.	7.2	30
61	Micromonospora sonneratiae sp. nov., isolated from a root of Sonneratia apetala. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 2383-2388.	0.8	28
62	Biosynthesis of tetronate antibiotics: A growing family of natural products with broad biological activities. Science China Chemistry, 2013, 56, 1364-1371.	4.2	27
63	An Iterative Module in the Azalomycinâ€…F Polyketide Synthase Contains a Switchable Enoylreductase Domain. Angewandte Chemie - International Edition, 2017, 56, 5503-5506.	7.2	27
64	Metabolic Engineering-Based Rapid Characterization of a Sesquiterpene Cyclase and the Skeletons of Fusariumdiene and Fusagramineol from Fusarium graminearum. Organic Letters, 2018, 20, 1626-1629.	2.4	27
65	Genome Mining Reveals a Multiproduct Sesterterpenoid Biosynthetic Gene Cluster in Aspergillus ustus. Organic Letters, 2021, 23, 1525-1529.	2.4	27
66	Characterization of Biosynthetic Genes of Ascamycin/Dealanylascamycin Featuring a 5â€²-O-Sulfonamide Moiety in Streptomyces sp. JCM9888. PLoS ONE, 2014, 9, e114722.	1.1	26
67	Deciphering Carbamoylpolyoxamic Acid Biosynthesis Reveals Unusual Acetylation Cycle Associated with Tandem Reduction and Sequential Hydroxylation. Cell Chemical Biology, 2016, 23, 935-944.	2.5	26
68	Epigenetic competition reveals density-dependent regulation and target site plasticity of phosphorothioate epigenetics in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14322-14330.	3.3	25
69	Oxidative stress-induced mitophagy is suppressed by the miR-106b-93-25 cluster in a protective manner. Cell Death and Disease, 2021, 12, 209.	2.7	25
70	Functional and Structural Dissection of a Plant Steroid 3-O-Glycosyltransferase Facilitated the Engineering Enhancement of Sugar Donor Promiscuity. ACS Catalysis, 2022, 12, 2927-2937.	5.5	25
71	Characterization of the aurantimycin biosynthetic gene cluster and enhancing its production by manipulating two pathway-specific activators in Streptomyces aurantiacus JA 4570. Microbial Cell Factories, 2016, 15, 160.	1.9	24
72	Proteomics Links Ubiquitin Chain Topology Change to Transcription Factor Activation. Molecular Cell, 2019, 76, 126-137.e7.	4.5	24

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73	The Biosynthesis of the Benzoxazole in Nataxazole Proceeds via an Unstable Ester and has Synthetic Utility. Angewandte Chemie - International Edition, 2020, 59, 6054-6061.	7.2	24
74	An Fe²⁺â€•and Î±â€Ketoglutarateâ€Dependent Halogenase Acts on Nucleotide Substrates. Angewandte Chemie - International Edition, 2020, 59, 9478-9484.	7.2	24
75	Qualitative analysis of chemical components in Lianhua Qingwen capsule by HPLC-Q Exactive-Orbitrap-MS coupled with GC-MS. Journal of Pharmaceutical Analysis, 2021, 11, 709-716.	2.4	24
76	Systematic identification of Ocimum sanctum sesquiterpenoid synthases and (â^')-eremophilene overproduction in engineered yeast. Metabolic Engineering, 2022, 69, 122-133.	3.6	24
77	Halichoblelide D, a New Elaiophylin Derivative with Potent Cytotoxic Activity from Mangrove-Derived Streptomyces sp. 219807. Molecules, 2016, 21, 970.	1.7	23
78	Construction of an octosyl acid backbone catalyzed by a radical S-adenosylmethionine enzyme and a phosphatase in the biosynthesis of high-carbon sugar nucleoside antibiotics. Chemical Science, 2017, 8, 444-451.	3.7	23
79	Characterization of the Biosynthetic Gene Cluster for the Antibiotic Armeniaspirols in Streptomyces armeniacus. Journal of Natural Products, 2019, 82, 318-323.	1.5	23
80	Antibacterial natural products lobophorin L and M from the marine-derived Streptomyces sp. 4506. Natural Product Research, 2021, 35, 5581-5587.	1.0	23
81	Systematic mining of fungal chimeric terpene synthases using an efficient precursor-providing yeast chassis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
82	Mechanistic Studies of a Nonheme Iron Enzyme OvoA in Ovothiol Biosynthesis Using a Tyrosine Analogue, 2-Amino-3-(4-hydroxy-3-(methoxyl) phenyl) Propanoic Acid (MeOTyr). ACS Catalysis, 2019, 9, 253-258.	5.5	22
83	Discovery of the cryptic function of terpene cyclases as aromatic prenyltransferases. Nature Communications, 2020, 11, 3958.	5.8	22
84	Coupling cell growth and biochemical pathway induction in Saccharomyces cerevisiae for production of (+)-valencene and its chemical conversion to (+)-nootkatone. Metabolic Engineering, 2022, 72, 107-115.	3.6	22
85	Heterologous expression of Avermectins biosynthetic gene cluster by construction of a Bacterial Artificial Chromosome library of the producers. Synthetic and Systems Biotechnology, 2017, 2, 59-64.	1.8	21
86	Divergent Biosynthesis of C-Nucleoside Minimycin and Indigoidine in Bacteria. IScience, 2019, 22, 430-440.	1.9	21
87	Characterization of a SAM-dependent fluorinase from a latent biosynthetic pathway for fluoroacetate and 4-fluorothreonine formation in Nocardia brasiliensis. F1000Research, 2014, 3, 61.	0.8	21
88	Metal-free direct amidation of peptidyl thiol esters with Î±-amino acid esters. Green Chemistry, 2011, 13, 2723.	4.6	20
89	Pairwise input neural network for target-ligand interaction prediction. , 2014, , .		20
90	Ornithine Transcarbamylase ArgK Plays a Dual role for the Self-defense of Phaseolotoxin Producing Pseudomonas syringae pv. phaseolicola. Scientific Reports, 2015, 5, 12892.	1.6	20

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91	Identifying the Minimal Enzymes for Unusual Carbonâ€“Sulfur Bond Formation in Thienodolin Biosynthesis. ChemBioChem, 2016, 17, 799-803.	1.3	20
92	Biosynthesis of the nosiheptide indole side ring centers on a cryptic carrier protein NosJ. Nature Communications, 2017, 8, 437.	5.8	20
93	Discovery and characterization of the tubercidin biosynthetic pathway from Streptomyces tubercidicus NBRC 13090. Microbial Cell Factories, 2018, 17, 131.	1.9	20
94	<scp>SAMM</scp>50 Affects Mitochondrial Morphology through the Association of Drp1 in Mammalian Cells. FEBS Letters, 2016, 590, 1313-1323.	1.3	19
95	Signature Arsenic Detoxification Pathways in Halomonas sp. Strain GFAJ-1. MBio, 2018, 9, .	1.8	19
96	Lost region in amyloid precursor protein (APP) through TALEN-mediated genome editing alters mitochondrial morphology. Scientific Reports, 2016, 6, 22244.	1.6	18
97	In Vitro Packaging Mediated One-Step Targeted Cloning of Natural Product Pathway. ACS Synthetic Biology, 2019, 8, 1991-1997.	1.9	18
98	Sesterterpene MHO7 suppresses breast cancer cells as a novel estrogen receptor degrader. Pharmacological Research, 2019, 146, 104294.	3.1	18
99	A ThDP-dependent enzymatic carboligation reaction involved in Neocarazostatin A tricyclic carbazole formation. Organic and Biomolecular Chemistry, 2016, 14, 8679-8684.	1.5	17
100	Puromycin A, B and C, cryptic nucleosides identified from Streptomyces alboniger NRRL B-1832 by PPtase-based activation. Synthetic and Systems Biotechnology, 2018, 3, 76-80.	1.8	17
101	Exploration of Hygromycin B Biosynthesis Utilizing CRISPR-Cas9-Associated Base Editing. ACS Chemical Biology, 2020, 15, 1417-1423.	1.6	17
102	Functional Analysis of Cytochrome P450s Involved in Streptovaricin Biosynthesis and Generation of Anti-MRSA Analogues. ACS Chemical Biology, 2017, 12, 2589-2597.	1.6	16
103	Genome Engineering and Modification Toward Synthetic Biology for the Production of Antibiotics. Medicinal Research Reviews, 2018, 38, 229-260.	5.0	16
104	Single-molecule optical mapping of the distribution of DNA phosphorothioate epigenetics. Nucleic Acids Research, 2021, 49, 3672-3680.	6.5	16
105	Mining of the Pyrrolamide Antibiotics Analogs in Streptomyces netropsis Reveals the Amidohydrolase-Dependent â€œIterative Strategyâ€•Underlying the Pyrrole Polymerization. PLoS ONE, 2014, 9, e99077.	1.1	15
106	In vitro reconstitution guide for targeted synthetic metabolism of chemicals, nutraceuticals and drug precursors. Synthetic and Systems Biotechnology, 2016, 1, 25-33.	1.8	15
107	Biosynthesis of 2â€²-Chloropentostatin and 2â€²-Amino-2â€²-Deoxyadenosine Highlights a Single Gene Cluster Responsible for Two Independent Pathways in Actinomadura sp. Strain ATCC 39365. Applied and Environmental Microbiology, 2017, 83, .	1.4	15
108	Eine chimÃre pilzliche Diterpensynthase der Klade IIâ€Ð aus Colletotrichum gloeosporioides produziert Dolastaâ€1(15),8â€dien. Angewandte Chemie, 2018, 130, 16113-16117.	1.6	15

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109	Comparative Investigation into Formycin A and Pyrazofurin A Biosynthesis Reveals Branch Pathways for the Construction of C -Nucleoside Scaffolds. Applied and Environmental Microbiology, 2020, 86, .	1.4	15
110	Single-Step Replacement of an Unreactive Câ€“H Bond by a Câ€“S Bond Using Polysulfide as the Direct Sulfur Source in the Anaerobic Ergothioneine Biosynthesis. ACS Catalysis, 2020, 10, 8981-8994.	5.5	15
111	Uncovering the cytochrome P450-catalyzed methylenedioxy bridge formation in streptovaricins biosynthesis. Nature Communications, 2020, 11, 4501.	5.8	15
112	Harnessing in vitro platforms for natural product research: in vitro driven rational engineering and mining (iDREAM). Current Opinion in Biotechnology, 2021, 69, 1-9.	3.3	15
113	SspABCD-SspFGH Constitutes a New Type of DNA Phosphorothioate-Based Bacterial Defense System. MBio, 2021, 12, .	1.8	15
114	Streptomyces arcticus sp. nov., isolated from frozen soil. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 1482-1487.	0.8	15
115	Effect of ammonium in medium on ansamitocin P-3 production by Actinosynnema pretiosum. Biotechnology and Bioprocess Engineering, 2010, 15, 119-125.	1.4	14
116	From Anilines to Quinolines: Iodideâ€•and Silverâ€Mediated Aerobic Double Câˆ’H Oxidative Annulationâ€“Aromatization. Chemistry - A European Journal, 2017, 23, 15874-15878.	1.7	14
117	Recent Advances in the Genomic Profiling of Bacterial Epigenetic Modifications. Biotechnology Journal, 2019, 14, e1800001.	1.8	14
118	Production of sesterterpene ophiobolin by a bifunctional terpene synthase in Escherichia coli. Applied Microbiology and Biotechnology, 2019, 103, 8785-8797.	1.7	14
119	Improving the Precision of Base Editing by Bubble Hairpin Single Guide RNA. MBio, 2021, 12, .	1.8	14
120	An insight into the protospacer adjacent motif of Streptococcus pyogenes Cas9 with artificially stimulated RNA-guided-Cas9 DNA cleavage flexibility. RSC Advances, 2016, 6, 33514-33522.	1.7	13
121	Expanding the Bioactive Chemical Space of Anthrabenzoxocinones through Engineering the Highly Promiscuous Biosynthetic Modification Steps. ACS Chemical Biology, 2018, 13, 200-206.	1.6	13
122	Direct Genetic and Enzymatic Evidence for Oxidative Cyclization in Hygromycin B Biosynthesis. ACS Chemical Biology, 2018, 13, 2203-2210.	1.6	13
123	Genome mining in Trichoderma viride J1-030: discovery and identification of novel sesquiterpene synthase and its products. Beilstein Journal of Organic Chemistry, 2019, 15, 2052-2058.	1.3	13
124	Anti-CRISPRdb v2.2: an online repository of anti-CRISPR proteins including information on inhibitory mechanisms, activities and neighbors of curated anti-CRISPR proteins. Database: the Journal of Biological Databases and Curation, 2022, 2022, .	1.4	13
125	Revolution of vitamin E production by starting from microbial fermented farnesene to isophytol. Innovation(China), 2022, 3, 100228.	5.2	13
126	Actinoallomurus acanthiterrae sp. nov., an actinomycete isolated from rhizosphere soil of the mangrove plant Acanthus ilicifolius. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 1874-1879.	0.8	12

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127	Substitution of a Single Amino Acid Reverses the Regiospecificity of the Baeyerâ€“Villiger Monooxygenase PntE in the Biosynthesis of the Antibiotic Pentalenolactone. Biochemistry, 2016, 55, 6696-6704.	1.2	12
128	Enzymatic Reconstitution and Biosynthetic Investigation of the Bacterial Carbazole Neocarazostatin A. Journal of Organic Chemistry, 2019, 84, 16323-16328.	1.7	12
129	Streptomyces avermitilis industrial strain as cell factory for Ivermectin B1a production. Synthetic and Systems Biotechnology, 2019, 4, 34-39.	1.8	12
130	Micromonospora zhanjiangensis sp. nov., isolated from mangrove forest soil. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 4880-4885.	0.8	12
131	In Vivo Mutational Characterization of DndE Involved in DNA Phosphorothioate Modification. PLoS ONE, 2014, 9, e107981.	1.1	12
132	Efficient biosynthesis of nucleoside cytokinin angustmycin A containing an unusual sugar system. Nature Communications, 2021, 12, 6633.	5.8	12
133	A marine-derived small molecule induces immunogenic cell death against triple-negative breast cancer through ER stress-CHOP pathway. International Journal of Biological Sciences, 2022, 18, 2898-2913.	2.6	12
134	Genetic dissection of the polyoxin building block-carbamoylpolyoxamic acid biosynthesis revealing the â€œpathway redundancyâ€•in metabolic networks. Microbial Cell Factories, 2013, 12, 121.	1.9	11
135	Metabolic engineering of an industrial polyoxin producer for the targeted overproduction of designer nucleoside antibiotics. Biotechnology and Bioengineering, 2015, 112, 1865-1871.	1.7	11
136	An ATP-Dependent Ligase with Substrate Flexibility Involved in Assembly of the Peptidyl Nucleoside Antibiotic Polyoxin. Applied and Environmental Microbiology, 2018, 84, .	1.4	10
137	Genomic identification and functional analysis of essential genes in Caenorhabditis elegans. BMC Genomics, 2018, 19, 871.	1.2	10
138	Aglycone Polyether Nanchangmycin and Its Homologues Exhibit Apoptotic and Antiproliferative Activities against Cancer Stem Cells. ACS Pharmacology and Translational Science, 2018, 1, 84-95.	2.5	10
139	Streptomyces polaris sp. nov. and Streptomyces septentrionalis sp. nov., isolated from frozen soil. Antonie Van Leeuwenhoek, 2019, 112, 375-387.	0.7	10
140	Two putative parallel pathways for naringenin biosynthesis in Epimedium wushanense. RSC Advances, 2021, 11, 13919-13927.	1.7	10
141	Two Cryptic Selfâ€Resistance Mechanisms in Streptomyces tenebrarius Reveal Insights into the Biosynthesis of Apramycin. Angewandte Chemie - International Edition, 2021, 60, 8990-8996.	7.2	10
142	Absolute quantification of proteins in the fatty acid biosynthetic pathway using protein standard absolute quantification. Synthetic and Systems Biotechnology, 2016, 1, 150-157.	1.8	9
143	An unusual UMP C-5 methylase in nucleoside antibiotic polyoxin biosynthesis. Protein and Cell, 2016, 7, 673-683.	4.8	9
144	PhID: An Open-Access Integrated Pharmacology Interactions Database for Drugs, Targets, Diseases, Genes, Side-Effects, and Pathways. Journal of Chemical Information and Modeling, 2017, 57, 2395-2400.	2.5	9

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145	Coordinated Biosynthesis of the Purine Nucleoside Antibiotics Aristeromycin and Coformycin in Actinomycetes. Applied and Environmental Microbiology, 2018, 84, .	1.4	9
146	Biochemical Characterization of a Multifunctional Mononuclear Nonheme Iron Enzyme (PtlD) in Neopentalenoketolactone Biosynthesis. Organic Letters, 2019, 21, 7592-7596.	2.4	9
147	Tight control of genomic phosphorothioate modification by the ATPâ€•modulated autoregulation and reusability of DndB. Molecular Microbiology, 2019, 111, 938-950.	1.2	9
148	Sesquiterpenoids Produced by Combining Two Sesquiterpene Cyclases with Promiscuous Myxobacterial CYP260B1. ChemBioChem, 2019, 20, 677-682.	1.3	9
149	Biosynthesis of C-nucleoside antibiotics in actinobacteria: recent advances and future developments. Microbial Cell Factories, 2022, 21, 2.	1.9	9
150	An Iterative Module in the Azalomycinâ€…F Polyketide Synthase Contains a Switchable Enoylreductase Domain. Angewandte Chemie, 2017, 129, 5595-5598.	1.6	8
151	Crossâ€Module Enoylreduction in the Azalomycinâ€…F Polyketide Synthase. Angewandte Chemie - International Edition, 2020, 59, 22738-22742.	7.2	8
152	Harnessing synthetic biology-based strategies for engineered biosynthesis of nucleoside natural products in actinobacteria. Biotechnology Advances, 2021, 46, 107673.	6.0	8
153	Parallel pathways in the biosynthesis of aminoglycoside antibiotics. F1000Research, 2017, 6, 723.	0.8	8
154	Evaluation of 3-hydroxypropionate biosynthesis in vitro by partial introduction of the 3-hydroxypropionate/4-hydroxybutyrate cycle from Metallosphaera sedula. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1313-1321.	1.4	7
155	Gemin5 plays a role in unassembledâ€U1 sn<scp>RNA</scp> disposal in <scp>SMN</scp>â€deficient cells. FEBS Letters, 2018, 592, 1400-1411.	1.3	7
156	The Biological Applications of Two Aggregationâ€Induced Emission Luminogens. Biotechnology Journal, 2019, 14, e1900212.	1.8	7
157	The Mechanism of Dehydrating Bimodules in transâ€Acyltransferase Polyketide Biosynthesis: A Showcase Study on Hepatoprotective Hangtaimycin. Angewandte Chemie - International Edition, 2021, 60, 19139-19143.	7.2	7
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