

Zixin Deng

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8827455/zixin-deng-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155
papers

2,654
citations

27
h-index

44
g-index

241
ext. papers

3,989
ext. citations

7.7
avg, IF

5.42
L-index

#	Paper	IF	Citations
155	Phosphorothioation of DNA in bacteria by <i>dnd</i> genes. <i>Nature Chemical Biology</i> , 2007 , 3, 709-10	11.7	191
154	ICEberg 2.0: an updated database of bacterial integrative and conjugative elements. <i>Nucleic Acids Research</i> , 2019 , 47, D660-D665	20.1	141
153	TADB 2.0: an updated database of bacterial type II toxin-antitoxin loci. <i>Nucleic Acids Research</i> , 2018 , 46, D749-D753	20.1	109
152	SecReT6: a web-based resource for type VI secretion systems found in bacteria. <i>Environmental Microbiology</i> , 2015 , 17, 2196-202	5.2	94
151	oriTfinder: a web-based tool for the identification of origin of transfers in DNA sequences of bacterial mobile genetic elements. <i>Nucleic Acids Research</i> , 2018 , 46, W229-W234	20.1	85
150	Biosynthesis of plant-derived ginsenoside Rh2 in yeast via repurposing a key promiscuous microbial enzyme. <i>Metabolic Engineering</i> , 2017 , 42, 25-32	9.7	74
149	Genomic mapping of phosphorothioates reveals partial modification of short consensus sequences. <i>Nature Communications</i> , 2014 , 5, 3951	17.4	70
148	VRprofile: gene-cluster-detection-based profiling of virulence and antibiotic resistance traits encoded within genome sequences of pathogenic bacteria. <i>Briefings in Bioinformatics</i> , 2018 , 19, 566-574 ^{13.4}	13.4	64
147	Complete genome sequence of hypervirulent and outbreak-associated <i>Acinetobacter baumannii</i> strain LAC-4: epidemiology, resistance genetic determinants and potential virulence factors. <i>Scientific Reports</i> , 2015 , 5, 8643	4.9	64
146	<i>Streptomyces</i> species: Ideal chassis for natural product discovery and overproduction. <i>Metabolic Engineering</i> , 2018 , 50, 74-84	9.7	62
145	Advances in CRISPR-Cas systems for RNA targeting, tracking and editing. <i>Biotechnology Advances</i> , 2019 , 37, 708-729	17.8	49
144	Convergence of DNA methylation and phosphorothioation epigenetics in bacterial genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4501-4506	11.5	46
143	Functional Genome Mining for Metabolites Encoded by Large Gene Clusters through Heterologous Expression of a Whole-Genome Bacterial Artificial Chromosome Library in <i>Streptomyces</i> spp. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 5795-805	4.8	46
142	CRISPR/dCas9-Mediated Multiplex Gene Repression in <i>Streptomyces</i> . <i>Biotechnology Journal</i> , 2018 , 13, e1800121	5.6	40
141	Metabolic engineering of microbes for branched-chain biodiesel production with low-temperature property. <i>Biotechnology for Biofuels</i> , 2015 , 8, 92	7.8	40
140	Large-Scale Transposition Mutagenesis of <i>Streptomyces coelicolor</i> Identifies Hundreds of Genes Influencing Antibiotic Biosynthesis. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	39
139	<i>polR</i> , a pathway-specific transcriptional regulatory gene, positively controls polyoxin biosynthesis in <i>Streptomyces cacaoi</i> subsp. <i>asoensis</i> . <i>Microbiology (United Kingdom)</i> , 2009 , 155, 1819-1831	2.9	39

138	Genetic mechanisms of arsenic detoxification and metabolism in bacteria. <i>Current Genetics</i> , 2019 , 65, 329-338	2.9	37
137	Functional Genome Mining Reveals a Class V Lanthipeptide Containing a d-Amino Acid Introduced by an F H -Dependent Reductase. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18029-18035	16.4	36
136	Promising methods for detection of novel coronavirus SARS-CoV-2. <i>View</i> , 2020 , 1, e4	7.8	35
135	Identification and Characterization of an Antibacterial Type VI Secretion System in the Carbapenem-Resistant Strain HS11286. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017 , 7, 442	5.9	33
134	Xylitol production from waste xylose mother liquor containing miscellaneous sugars and inhibitors: one-pot biotransformation by <i>Candida tropicalis</i> and recombinant <i>Bacillus subtilis</i> . <i>Microbial Cell Factories</i> , 2016 , 15, 82	6.4	33
133	Mapping the resistance-associated mobilome of a carbapenem-resistant <i>Klebsiella pneumoniae</i> strain reveals insights into factors shaping these regions and facilitates generation of a Resistance-disarmed model organism. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 2770-4	5.1	32
132	Engineering and modification of microbial chassis for systems and synthetic biology. <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 25-33	4.2	29
131	DNA Backbone Sulfur-Modification Expands Microbial Growth Range under Multiple Stresses by its anti-oxidation function. <i>Scientific Reports</i> , 2017 , 7, 3516	4.9	28
130	Reconstitution of Kinamycin Biosynthesis within the Heterologous Host <i>Streptomyces albus</i> J1074. <i>Journal of Natural Products</i> , 2018 , 81, 72-77	4.9	28
129	Gut microbiome interventions in human health and diseases. <i>Medicinal Research Reviews</i> , 2019 , 39, 2286-2313	4.1	27
128	Emergence of the third-generation cephalosporin-resistant hypervirulent <i>Klebsiella pneumoniae</i> due to the acquisition of a self-transferable bla-carrying plasmid by an ST23 strain. <i>Virulence</i> , 2018 , 9, 838-844	4.7	27
127	Proteomic Analysis and NIR-II Imaging of MCM2 Protein in Hepatocellular Carcinoma. <i>Journal of Proteome Research</i> , 2018 , 17, 2428-2439	5.6	27
126	Synthetic Genomics: From DNA Synthesis to Genome Design. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1748-1756	16.4	24
125	Operon for biosynthesis of lipstatin, the Beta-lactone inhibitor of human pancreatic lipase. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 7473-83	4.8	24
124	Improving the expression of recombinant proteins in <i>E. coli</i> BL21 (DE3) under acetate stress: an alkaline pH shift approach. <i>PLoS ONE</i> , 2014 , 9, e112777	3.7	24
123	Engineered Strains for Optimal Identification and Expression of Cryptic Biosynthetic Gene Clusters. <i>Frontiers in Microbiology</i> , 2018 , 9, 3042	5.7	24
122	Revisiting the Mechanism of the Anaerobic Coproporphyrinogen III Oxidase HemN. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6235-6238	16.4	23
121	Identification and characterization of acetyltransferase-type toxin-antitoxin locus in <i>Klebsiella pneumoniae</i> . <i>Molecular Microbiology</i> , 2018 , 108, 336-349	4.1	22

120	Development of sp. FR-008 as an emerging chassis. <i>Synthetic and Systems Biotechnology</i> , 2016 , 1, 207-214.	4.2	22
119	An Alternative Approach to Synthesizing Galactooligosaccharides by Cell-Surface Display of β -Galactosidase on <i>Yarrowia lipolytica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 3819-27	5.7	22
118	Characterization of 2-Oxindole Forming Heme Enzyme MarE, Expanding the Functional Diversity of the Tryptophan Dioxygenase Superfamily. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11887-11894	16.4	21
117	A Multifunctional Monooxygenase XanO4 Catalyzes Xanthone Formation in Xantholipin Biosynthesis via a Cryptic Demethoxylation. <i>Cell Chemical Biology</i> , 2016 , 23, 508-16	8.2	21
116	Genome engineering for microbial natural product discovery. <i>Current Opinion in Microbiology</i> , 2018 , 45, 53-60	7.9	20
115	Structural basis for the recognition of sulfur in phosphorothioated DNA. <i>Nature Communications</i> , 2018 , 9, 4689	17.4	19
114	Biosynthesis of plant tetrahydroisoquinoline alkaloids through an imine reductase route. <i>Chemical Science</i> , 2020 , 11, 364-371	9.4	18
113	DNA Phosphorothioate Modification Plays a Role in Peroxides Resistance in <i>Streptomyces lividans</i> . <i>Frontiers in Microbiology</i> , 2016 , 7, 1380	5.7	18
112	Hybrubins: Bipyrrrole Tetramic Acids Obtained by Crosstalk between a Truncated Undecylprodigiosin Pathway and Heterologous Tetramic Acid Biosynthetic Genes. <i>Organic Letters</i> , 2016 , 18, 572-5	6.2	17
111	Thuricin Z: A Narrow-Spectrum Sactibiotic that Targets the Cell Membrane. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18793-18797	16.4	17
110	Multiplex genome editing using a dCas9-cytidine deaminase fusion in <i>Streptomyces</i> . <i>Science China Life Sciences</i> , 2020 , 63, 1053-1062	8.5	17
109	Heterologous Biosynthesis of Type II Polyketide Products Using. <i>ACS Chemical Biology</i> , 2020 , 15, 1177-1183	11.3	17
108	Biosynthesis of the pyrrolidine protein synthesis inhibitor anisomycin involves novel gene ensemble and cryptic biosynthetic steps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4135-4140	11.5	16
107	Formation of an Angular Aromatic Polyketide from a Linear Anthrene Precursor via Oxidative Rearrangement. <i>Cell Chemical Biology</i> , 2017 , 24, 881-891.e4	8.2	16
106	Regulation of DNA phosphorothioate modifications by the transcriptional regulator DptB in <i>Salmonella</i> . <i>Molecular Microbiology</i> , 2015 , 97, 1186-94	4.1	16
105	Recognition and cleavage of 5-methylcytosine DNA by bacterial SRA-HNH proteins. <i>Nucleic Acids Research</i> , 2015 , 43, 1147-59	20.1	16
104	Functional characterization of the first two actinomycete 4-amino-4-deoxychorismate lyase genes. <i>Microbiology (United Kingdom)</i> , 2009 , 155, 2450-2459	2.9	16
103	Mechanistic Investigation on ROS Resistance of Phosphorothioated DNA. <i>Scientific Reports</i> , 2017 , 7, 42823	2.3	14

102	Identification and characterization of chromosomal relBE toxin-antitoxin locus in <i>Streptomyces cattleya</i> DSM46488. <i>Scientific Reports</i> , 2016 , 6, 32047	4.9	14
101	Iteratively improving natamycin production in <i>Streptomyces gilvosporeus</i> by a large operon-reporter based strategy. <i>Metabolic Engineering</i> , 2016 , 38, 418-426	9.7	14
100	Genetic characterization of enzymes involved in the priming steps of oxytetracycline biosynthesis in <i>Streptomyces rimosus</i> . <i>Microbiology (United Kingdom)</i> , 2011 , 157, 2401-2409	2.9	14
99	A novel streptonigrin type alkaloid from the CGMCC 4.1223 mutant □ <i>Natural Product Research</i> , 2020 , 1-9	2.3	14
98	Structural basis for the biosynthesis of lovastatin. <i>Nature Communications</i> , 2021 , 12, 867	17.4	14
97	Toxin-antitoxin operon kacAT of <i>Klebsiella pneumoniae</i> is regulated by conditional cooperativity via a W-shaped KacA-KacT complex. <i>Nucleic Acids Research</i> , 2019 , 47, 7690-7702	20.1	13
96	Regulatory Mechanism of Nicotine Degradation in. <i>MBio</i> , 2019 , 10,	7.8	13
95	Identification of (2S,3S)- ϵ -Methyltryptophan as the Real Biosynthetic Intermediate of Antitumor Agent Streptonigrin. <i>Scientific Reports</i> , 2016 , 6, 20273	4.9	13
94	Biosynthesis of the ϵ -methylarginine residue of peptidyl nucleoside arginomycin in <i>Streptomyces arginensis</i> NRRL 15941. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 5021-7	4.8	13
93	Inactivation of the positive LuxR-type oligomycin biosynthesis regulators OlmRI and OlmRII increases avermectin production in <i>Streptomyces avermitilis</i> . <i>Science Bulletin</i> , 2012 , 57, 869-876		13
92	Indole methylation protects diketopiperazine configuration in the maremycin biosynthetic pathway. <i>Science China Chemistry</i> , 2016 , 59, 1224-1228	7.9	13
91	Biosynthesis of Tropolones in <i>Streptomyces</i> spp.: Interweaving Biosynthesis and Degradation of Phenylacetic Acid and Hydroxylations on the Tropone Ring. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	11
90	Characterization of an efficient estrogen-degrading bacterium <i>Stenotrophomonas maltophilia</i> SJTH1 in saline-, alkaline-, heavy metal-contained environments or solid soil and identification of four 17 β -estradiol-oxidizing dehydrogenases. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121616	12.8	11
89	Characterization of the positive SARP family regulator PieR for improving piericidin A1 production in var. <i>Hangzhouwanensis</i> . <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 16-24	4.2	11
88	Mobilization of the nonconjugative virulence plasmid from hypervirulent <i>Klebsiella pneumoniae</i> . <i>Genome Medicine</i> , 2021 , 13, 119	14.4	11
87	Quantitative mapping of DNA phosphorothioate reveals phosphorothioate heterogeneity of low modification frequency. <i>PLoS Genetics</i> , 2019 , 15, e1008026	6	10
86	Highly Efficient Erythritol Recovery from Waste Erythritol Mother Liquor by a Yeast-Mediated Biorefinery Process. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 11020-11028	5.7	10
85	NRPS Protein MarQ Catalyzes Flexible Adenylation and Specific S-Methylation. <i>ACS Chemical Biology</i> , 2018 , 13, 2387-2391	4.9	10

84	Substrate-bound structures of a ketoreductase from amphotericin modular polyketide synthase. <i>Journal of Structural Biology</i> , 2018 , 203, 135-141	3.4	9
83	Stereospecificity of Enoylreductase Domains from Modular Polyketide Synthases. <i>ACS Chemical Biology</i> , 2018 , 13, 871-875	4.9	9
82	Molecular mechanisms by which casein glycomacropeptide maintains internal homeostasis in mice with experimental ulcerative colitis. <i>PLoS ONE</i> , 2017 , 12, e0181075	3.7	9
81	CtcS, a MarR family regulator, regulates chlortetracycline biosynthesis. <i>BMC Microbiology</i> , 2019 , 19, 279	4.5	9
80	FIGNL1 is overexpressed in small cell lung cancer patients and enhances NCI-H446 cell resistance to cisplatin and etoposide. <i>Oncology Reports</i> , 2017 , 37, 1935-1942	3.5	8
79	Sulfonium-Based Homolytic Substitution Observed for the Radical SAM Enzyme HemN. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8880-8884	16.4	8
78	Antibiotic biosynthetic pathways and pathway engineering--a growing research field in China. <i>Natural Product Reports</i> , 2006 , 23, 811-27	15.1	8
77	Characterization of an 17 β -estradiol-degrading bacterium <i>Stenotrophomonas maltophilia</i> SJTL3 tolerant to adverse environmental factors. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 1291-1305	5.7	8
76	DNA Phosphorothioate Modifications Are Widely Distributed in the Human Microbiome. <i>Biomolecules</i> , 2020 , 10,	5.9	8
75	Characterization and Mechanistic Study of the Radical SAM Enzyme ArsS Involved in Arsenosugar Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7570-7575	16.4	8
74	De Novo Biosynthesis of β -Valienamine in Engineered <i>Streptomyces hygroscopicus</i> 5008. <i>ACS Synthetic Biology</i> , 2016 , 5, 15-20	5.7	7
73	Structural Insights into the Substrate Specificity of Acyltransferases from Salinomycin Polyketide Synthase. <i>Biochemistry</i> , 2019 , 58, 2978-2986	3.2	7
72	Phosphorothioated DNA Is Shielded from Oxidative Damage. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	7
71	A severe leakage of intermediates to shunt products in acarbose biosynthesis. <i>Nature Communications</i> , 2020 , 11, 1468	17.4	7
70	EGFR with TKI-sensitive mutations in exon 19 is highly expressed and frequently detected in Chinese patients with lung squamous carcinoma. <i>OncoTargets and Therapy</i> , 2017 , 10, 4607-4613	4.4	7
69	Structure of the N-glycosidase MilB in complex with hydroxymethyl CMP reveals its Arg23 specifically recognizes the substrate and controls its entry. <i>Nucleic Acids Research</i> , 2014 , 42, 8115-24	20.1	7
68	DNA backbone interactions impact the sequence specificity of DNA sulfur-binding domains: revelations from structural analyses. <i>Nucleic Acids Research</i> , 2020 , 48, 8755-8766	20.1	7
67	Argonaute integrated single-tube PCR system enables supersensitive detection of rare mutations. <i>Nucleic Acids Research</i> , 2021 , 49, e75	20.1	7

66	Identification and engineering of regulation-related genes toward improved kasugamycin production. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 1811-1821	5.7	7
65	Genome-Wide Mutagenesis Links Multiple Metabolic Pathways with Actinorhodin Production in <i>Streptomyces coelicolor</i> . <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	6
64	Molecular basis of regio- and stereo-specificity in biosynthesis of bacterial heterodimeric diketopiperazines. <i>Nature Communications</i> , 2020 , 11, 6251	17.4	6
63	Functional Genome Mining Reveals a Class V Lanthipeptide Containing a d-Amino Acid Introduced by an F420H2-Dependent Reductase. <i>Angewandte Chemie</i> , 2020 , 132, 18185-18191	3.6	6
62	Recent Advances in the Genomic Profiling of Bacterial Epigenetic Modifications. <i>Biotechnology Journal</i> , 2019 , 14, e1800001	5.6	6
61	A Site-Specific Integrative Plasmid Found in <i>Pseudomonas aeruginosa</i> Clinical Isolate HS87 along with A Plasmid Carrying an Aminoglycoside-Resistant Gene. <i>PLoS ONE</i> , 2016 , 11, e0148367	3.7	6
60	Structural and Biochemical Insight into the Recruitment of Acyl Carrier Protein-Linked Extender Units in Ansamitocin Biosynthesis. <i>ChemBioChem</i> , 2020 , 21, 1309-1314	3.8	6
59	Identification of a conserved DNA sulfur recognition domain by characterizing the phosphorothioate-specific endonuclease SprMcrA from <i>Streptomyces pristinaespiralis</i> . <i>Molecular Microbiology</i> , 2018 , 110, 484-497	4.1	6
58	Xantholipin B produced by the stnR inactivation mutant <i>Streptomyces flocculus</i> CGMCC 4.1223 WJN-1. <i>Journal of Antibiotics</i> , 2017 , 70, 90-95	3.7	5
57	Crystallization and preliminary X-ray analysis of the type IV restriction endonuclease ScoMcrA from <i>Streptomyces coelicolor</i> , which cleaves both Dcm-methylated DNA and phosphorothioated DNA. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 57-60	1.1	5
56	Structural Analysis of an L-Cysteine Desulfurase from an Ssp DNA Phosphorothioation System. <i>MBio</i> , 2020 , 11,	7.8	5
55	Characterization of the Phenanthrene-Degrading SJTF8 in Heavy Metal Co-Existing Liquid Medium and Analysis of Its Metabolic Pathway. <i>Microorganisms</i> , 2020 , 8,	4.9	5
54	Generation of tetramycin B derivative with improved pharmacological property based on pathway engineering. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 2561-2573	5.7	5
53	Genome mining as a biotechnological tool for the discovery of novel marine natural products. <i>Critical Reviews in Biotechnology</i> , 2020 , 40, 571-589	9.4	5
52	Enhanced validamycin production and gene expression at elevated temperature in <i>Streptomyces hygroscopicus</i> subsp. <i>jingangensis</i> 5008. <i>Science Bulletin</i> , 2009 , 54, 1204-1209	10.6	5
51	An in vitro DNA phosphorothioate modification reaction. <i>Molecular Microbiology</i> , 2020 , 113, 452-463	4.1	5
50	Flavin Adenine Dinucleotide-Dependent Halogenase XanH and Engineering of Multifunctional Fusion Halogenases. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	5
49	Genome Mining and Biosynthesis Study of a Type B Linaridin Reveals a Highly Versatile β N-Methyltransferase. <i>CCS Chemistry</i> , 2021 , 3, 1049-1057	7.2	5

48	Post-Translational Formation of Aminomalonate by a Promiscuous Peptide-Modifying Radical SAM Enzyme. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19957-19964	16.4	5
47	Structural basis of the substrate preference towards CMP for a thymidylate synthase MilA involved in mildiomycin biosynthesis. <i>Scientific Reports</i> , 2016 , 6, 39675	4.9	5
46	A LuxR family transcriptional regulator AniF promotes the production of anisomycin and its derivatives in var. beijingensis. <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 40-48	4.2	5
45	Novel Iodine-induced Cleavage Real-time PCR Assay for Accurate Quantification of Phosphorothioate Modified Sites in Bacterial DNA. <i>Scientific Reports</i> , 2019 , 9, 7485	4.9	4
44	An aurora of natural products-based drug discovery is coming. <i>Synthetic and Systems Biotechnology</i> , 2020 , 5, 92-96	4.2	4
43	Cezomycin Is Activated by CalC to Its Ester Form for Further Biosynthesis Steps in the Production of Calcimycin in <i>Streptomyces chartreusis</i> NRRL 3882. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	4
42	Functional Characterization of PyrG, an Unusual Nonribosomal Peptide Synthetase Module from the Pyridomycin Biosynthetic Pathway. <i>ChemBioChem</i> , 2016 , 17, 1421-5	3.8	4
41	Analysis of <i>Streptomyces coelicolor</i> membrane proteome using two-dimensional native/native and native/sodium dodecyl sulfate gel electrophoresis. <i>Analytical Biochemistry</i> , 2014 , 465, 148-55	3.1	4
40	The standalone aminopeptidase PepN catalyzes the maturation of blasticidin S from leucylblasticidin S. <i>Scientific Reports</i> , 2015 , 5, 17641	4.9	4
39	Effect of copper sulfate on biosynthesis of FR-008/Candicidin complex production in <i>Streptomyces</i> sp.. <i>World Journal of Microbiology and Biotechnology</i> , 2011 , 27, 2033-2039	4.4	4
38	Probing and Engineering the Fatty Acyl Substrate Selectivity of Starter Condensation Domains of Nonribosomal Peptide Synthetases in Lipopeptide Biosynthesis. <i>Biotechnology Journal</i> , 2020 , 15, e1900175	5.6	4
37	Naphthoquinone-Based Meroterpenoids from Marine-Derived sp. B9173. <i>Biomolecules</i> , 2020 , 10,	5.9	4
36	Defense Mechanism of Phosphorothioated DNA under Peroxynitrite-Mediated Oxidative Stress. <i>ACS Chemical Biology</i> , 2020 , 15, 2558-2567	4.9	4
35	One-Pot Asymmetric Synthesis of an Aminodiol Intermediate of Florfenicol Using Engineered Transketolase and Transaminase. <i>ACS Catalysis</i> , 2021 , 11, 7477-7488	13.1	4
34	Evidence from 18O feeding studies for hydroxyl group donor in the reaction catalyzed by cytidylate hydroxymethylase MilA. <i>Science Bulletin</i> , 2013 , 58, 864-868		3
33	A [3Fe-4S] cluster and tRNA-dependent aminoacyltransferase BlsK in the biosynthesis of Blasticidin S. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
32	Engineering the Erythromycin-Producing Strain HOE107 for the Heterologous Production of Polyketide Antibiotics. <i>Frontiers in Microbiology</i> , 2020 , 11, 593217	5.7	2
31	Development of Methods Derived from Iodine-Induced Specific Cleavage for Identification and Quantitation of DNA Phosphorothioate Modifications. <i>Biomolecules</i> , 2020 , 10,	5.9	2

30	Three Recently Diverging Duplicated Methyltransferases Exhibit Substrate-Dependent Regioselectivity Essential for Xantholin Biosynthesis. <i>ACS Chemical Biology</i> , 2020 , 15, 2107-2115	4.9	2
29	Comparative Analysis of CRISPR Loci Found in Streptomyces Genome Sequences. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018 , 10, 848-853	3.5	2
28	Marker-Free System Using Ribosomal Promoters Enhanced Xylose/Glucose Isomerase Production in <i>Streptomyces rubiginosus</i> . <i>Biotechnology Journal</i> , 2019 , 14, e1900114	5.6	2
27	The origin and impeded dissemination of the DNA phosphorothioation system in prokaryotes. <i>Nature Communications</i> , 2021 , 12, 6382	17.4	2
26	Offloading Role of a Discrete Thioesterase in Type II Polyketide Biosynthesis. <i>MBio</i> , 2020 , 11,	7.8	2
25	Production of Heterodimeric Diketopiperazines Employing a γ -Based Whole-Cell Biocatalysis System. <i>Journal of Organic Chemistry</i> , 2021 , 86, 11189-11197	4.2	2
24	Computational studies on the substrate specificity of an acyltransferase domain from salinomycin polyketide synthase. <i>Catalysis Science and Technology</i> ,	5.5	2
23	Harnessing phosphonate antibiotics argolaphos biosynthesis enables a synthetic biology-based green synthesis of glyphosate.. <i>Nature Communications</i> , 2022 , 13, 1736	17.4	2
22	Radical SAM-dependent ether crosslink in daropeptide biosynthesis.. <i>Nature Communications</i> , 2022 , 13, 2361	17.4	2
21	Metabolic engineering of a methyltransferase for production of drug precursors demecycline and demeclocycline in. <i>Synthetic and Systems Biotechnology</i> , 2020 , 5, 121-130	4.2	1
20	Recycling of Overactivated Acyls by a Type II Thioesterase during Calcimycin Biosynthesis in <i>Streptomyces chartreusis</i> NRRL 3882. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	1
19	Phosphorothioate-DNA bacterial diet reduces the ROS levels in <i>C. elegans</i> while improving locomotion and longevity. <i>Communications Biology</i> , 2021 , 4, 1335	6.7	1
18	sp. nov., a new actinobacterium isolated from Moq. rhizosphere. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020 , 70, 5026-5031	2.2	1
17	RedH and PigC Catalyze the Biosynthesis of Hybrubins via Phosphorylation of 4FMethoxy-2,2TBipyrrole-5FCarbaldehyde. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	1
16	Challenges of functional expression of complex polyketide biosynthetic gene clusters. <i>Current Opinion in Biotechnology</i> , 2021 , 69, 103-111	11.4	1
15	Metabolism analysis of ^{17}E thynylestradiol by <i>Pseudomonas citronellolis</i> SJTE-3 and identification of the functional genes. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127045	12.8	1
14	Origin of iodine preferential attack at sulfur in phosphorothioate and subsequent P-O or P-S bond dissociation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119032119	11.5	1
13	ICEO, a biological ontology for representing and analyzing bacterial integrative and conjugative elements.. <i>Scientific Data</i> , 2022 , 9, 11	8.2	0

12	Characterization of pyridomycin B reveals the formation of functional groups in antimycobacterial pyridomycin.. <i>Applied and Environmental Microbiology</i> , 2022 , AEM0203521	4.8	o
11	Catalytic trajectory of a dimeric nonribosomal peptide synthetase subunit with an inserted epimerase domain.. <i>Nature Communications</i> , 2022 , 13, 592	17.4	o
10	Identification and characterization of a central replication origin of the mega-plasmid pSCATT of <i>Streptomyces cattleya</i> .. <i>Microbiological Research</i> , 2022 , 257, 126975	5.3	o
9	Acyltransferase Anil, a Tailoring Enzyme with Broad Substrate Tolerance for High-Level Production of Anisomycin. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0017221	4.8	o
8	Adaptive Optimization Boosted the Production of Moenomycin A in the Microbial Chassis J1074. <i>ACS Synthetic Biology</i> , 2021 , 10, 2210-2221	5.7	o
7	Engineering Leifsonia Alcohol Dehydrogenase for Thermostability and Catalytic Efficiency by Enhancing Subunit Interactions. <i>ChemBioChem</i> , 2021 , 22, 3178-3183	3.8	o
6	Synthetische Genomik: von der DNA-Synthese zu Designer-Genomen. <i>Angewandte Chemie</i> , 2018 , 130, 1764-1773	3.6	
5	Two nucleoside receptors from <i>Streptomyces coelicolor</i> : expression of the genes and characterization of the recombinant proteins. <i>Protein Expression and Purification</i> , 2015 , 109, 40-6	2	
4	Rapid identification of magnesium ascorbyl phosphate utilizing phosphatase through a chromogenic change-coupled activity assay. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 2901-2909	5.7	
3	Spot 42 RNA regulates putrescine catabolism in <i>Escherichia coli</i> by controlling the expression of puuE at the post-transcription level. <i>Journal of Microbiology</i> , 2021 , 59, 175-185	3	
2	Bacterial YedK represses plasmid DNA replication and transformation through its DNA single-strand binding activity. <i>Microbiological Research</i> , 2021 , 252, 126852	5.3	
1	Exploiting synthetic regulatory elements for non-dominant microorganisms.. <i>Synthetic and Systems Biotechnology</i> , 2022 , 7, 839-840	4.2	