

Zixin Deng

List of Publications by Year in Descending Order

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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	ICEO, a biological ontology for representing and analyzing bacterial integrative and conjugative elements.. <i>Scientific Data</i> , 2022 , 9, 11	8.2	0
154	Characterization of pyridomycin B reveals the formation of functional groups in antimycobacterial pyridomycin.. <i>Applied and Environmental Microbiology</i> , 2022 , AEM0203521	4.8	0
153	Catalytic trajectory of a dimeric nonribosomal peptide synthetase subunit with an inserted epimerase domain.. <i>Nature Communications</i> , 2022 , 13, 592	17.4	0
152	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	0
151	Metabolism analysis of 17 β -ethynylestradiol 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
150	Harnessing phosphonate antibiotics argolaphos biosynthesis enables a synthetic biology-based green synthesis of glyphosate.. <i>Nature Communications</i> , 2022 , 13, 1736	17.4	2
149	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
148	Radical SAM-dependent ether crosslink in daropeptide biosynthesis.. <i>Nature Communications</i> , 2022 , 13, 2361	17.4	2
147	Exploiting synthetic regulatory elements for non-dominant microorganisms.. <i>Synthetic and Systems Biotechnology</i> , 2022 , 7, 839-840	4.2	
146	The origin and impeded dissemination of the DNA phosphorothioation system in prokaryotes. <i>Nature Communications</i> , 2021 , 12, 6382	17.4	2
145	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
144	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
143	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	
142	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
141	Argonaute integrated single-tube PCR system enables supersensitive detection of rare mutations. <i>Nucleic Acids Research</i> , 2021 , 49, e75	20.1	7
140	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	0
139	Challenges of functional expression of complex polyketide biosynthetic gene clusters. <i>Current Opinion in Biotechnology</i> , 2021 , 69, 103-111	11.4	1

138	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
137	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
136	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
135	Spot 42 RNA regulates putrescine catabolism in Escherichia coli by controlling the expression of puuE at the post-transcription level. <i>Journal of Microbiology</i> , 2021 , 59, 175-185	3	
134	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
133	Structural basis for the biosynthesis of lovastatin. <i>Nature Communications</i> , 2021 , 12, 867	17.4	14
132	Mobilization of the nonconjugative virulence plasmid from hypervirulent Klebsiella pneumoniae. <i>Genome Medicine</i> , 2021 , 13, 119	14.4	11
131	Adaptive Optimization Boosted the Production of Moenomycin A in the Microbial Chassis J1074. <i>ACS Synthetic Biology</i> , 2021 , 10, 2210-2221	5.7	0
130	Engineering Leifsonia Alcohol Dehydrogenase for Thermostability and Catalytic Efficiency by Enhancing Subunit Interactions. <i>ChemBioChem</i> , 2021 , 22, 3178-3183	3.8	0
129	Bacterial YedK represses plasmid DNA replication and transformation through its DNA single-strand binding activity. <i>Microbiological Research</i> , 2021 , 252, 126852	5.3	
128	Molecular basis of regio- and stereo-specificity in biosynthesis of bacterial heterodimeric diketopiperazines. <i>Nature Communications</i> , 2020 , 11, 6251	17.4	6
127	Engineering the Erythromycin-Producing Strain HOE107 for the Heterologous Production of Polyketide Antibiotics. <i>Frontiers in Microbiology</i> , 2020 , 11, 593217	5.7	2
126	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
125	Structural Analysis of an L-Cysteine Desulfurase from an Ssp DNA Phosphorothioation System. <i>MBio</i> , 2020 , 11,	7.8	5
124	An aurora of natural products-based drug discovery is coming. <i>Synthetic and Systems Biotechnology</i> , 2020 , 5, 92-96	4.2	4
123	A severe leakage of intermediates to shunt products in acarbose biosynthesis. <i>Nature Communications</i> , 2020 , 11, 1468	17.4	7
122	Promising methods for detection of novel coronavirus SARS-CoV-2. <i>View</i> , 2020 , 1, e4	7.8	35
121	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

120	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
119	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
118	Three Recently Diverging Duplicated Methyltransferases Exhibit Substrate-Dependent Regioselectivity Essential for Xantholipin Biosynthesis. <i>ACS Chemical Biology</i> , 2020 , 15, 2107-2115	4.9	2
117	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
116	Sulfonium-Based Homolytic Substitution Observed for the Radical SAM Enzyme HemN. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8880-8884	16.4	8
115	Generation of tetracycline B derivative with improved pharmacological property based on pathway engineering. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 2561-2573	5.7	5
114	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
113	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
112	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
111	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
110	Biosynthesis of plant tetrahydroisoquinoline alkaloids through an imine reductase route. <i>Chemical Science</i> , 2020 , 11, 364-371	9.4	18
109	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
108	RedH and PigC Catalyze the Biosynthesis of Hybrubins via Phosphorylation of 4FMethoxy-2,2TBipyrrole-5TCarbaldehyde. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	1
107	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
106	An in vitro DNA phosphorothioate modification reaction. <i>Molecular Microbiology</i> , 2020 , 113, 452-463	4.1	5
105	Heterologous Biosynthesis of Type II Polyketide Products Using. <i>ACS Chemical Biology</i> , 2020 , 15, 1177-1183	4.9	17
104	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
103	Flavin Adenine Dinucleotide-Dependent Halogenase XanH and Engineering of Multifunctional Fusion Halogenases. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	5

102	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
101	Offloading Role of a Discrete Thioesterase in Type II Polyketide Biosynthesis. <i>MBio</i> , 2020 , 11,	7.8	2
100	Naphthoquinone-Based Meroterpenoids from Marine-Derived sp. B9173. <i>Biomolecules</i> , 2020 , 10,	5.9	4
99	DNA Phosphorothioate Modifications Are Widely Distributed in the Human Microbiome. <i>Biomolecules</i> , 2020 , 10,	5.9	8
98	Defense Mechanism of Phosphorothioated DNA under Peroxynitrite-Mediated Oxidative Stress. <i>ACS Chemical Biology</i> , 2020 , 15, 2558-2567	4.9	4
97	A novel streptonigrin type alkaloid from the CGMCC 4.1223 mutant □ <i>Natural Product Research</i> , 2020 , 1-9	2.3	14
96	Toxin-antitoxin operon <i>kacAT</i> 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
95	ICEberg 2.0: an updated database of bacterial integrative and conjugative elements. <i>Nucleic Acids Research</i> , 2019 , 47, D660-D665	20.1	141
94	Regulatory Mechanism of Nicotine Degradation in. <i>MBio</i> , 2019 , 10,	7.8	13
93	Structural Insights into the Substrate Specificity of Acyltransferases from Salinomycin Polyketide Synthase. <i>Biochemistry</i> , 2019 , 58, 2978-2986	3.2	7
92	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
91	Gut microbiome interventions in human health and diseases. <i>Medicinal Research Reviews</i> , 2019 , 39, 2286-2313	23.13	27
90	Advances in CRISPR-Cas systems for RNA targeting, tracking and editing. <i>Biotechnology Advances</i> , 2019 , 37, 708-729	17.8	49
89	Revisiting the Mechanism of the Anaerobic Coproporphyrinogen III Oxidase HemN. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6235-6238	16.4	23
88	Quantitative mapping of DNA phosphorothioatome reveals phosphorothioate heterogeneity of low modification frequency. <i>PLoS Genetics</i> , 2019 , 15, e1008026	6	10
87	Phosphorothioated DNA Is Shielded from Oxidative Damage. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	7
86	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
85	Recent Advances in the Genomic Profiling of Bacterial Epigenetic Modifications. <i>Biotechnology Journal</i> , 2019 , 14, e1800001	5.6	6

84	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
83	Thuricin Z: A Narrow-Spectrum Sactibiotic that Targets the Cell Membrane. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18793-18797	16.4	17
82	A LuxR family transcriptional regulator AniF promotes the production of anisomycin and its derivatives in var. <i>beijingensis</i> . <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 40-48	4.2	5
81	CtcS, a MarR family regulator, regulates chlortetracycline biosynthesis. <i>BMC Microbiology</i> , 2019 , 19, 279	4.5	9
80	Engineering and modification of microbial chassis for systems and synthetic biology. <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 25-33	4.2	29
79	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
78	Genetic mechanisms of arsenic detoxification and metabolism in bacteria. <i>Current Genetics</i> , 2019 , 65, 329-338	2.9	37
77	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	64
76	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
75	Genome engineering for microbial natural product discovery. <i>Current Opinion in Microbiology</i> , 2018 , 45, 53-60	7.9	20
74	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
73	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
72	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
71	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
70	Substrate-bound structures of a ketoreductase from amphotericin modular polyketide synthase. <i>Journal of Structural Biology</i> , 2018 , 203, 135-141	3.4	9
69	Stereospecificity of Enoylreductase Domains from Modular Polyketide Synthases. <i>ACS Chemical Biology</i> , 2018 , 13, 871-875	4.9	9
68	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
67	Synthetische Genomik: von der DNA-Synthese zu Designer-Genomen. <i>Angewandte Chemie</i> , 2018 , 130, 1764-1773	3.6	

66	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
65	Synthetic Genomics: From DNA Synthesis to Genome Design. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1748-1756	16.4	24
64	Comparative Analysis of CRISPR Loci Found in Streptomyces Genome Sequences. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018 , 10, 848-853	3.5	2
63	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
62	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
61	CRISPR/dCas9-Mediated Multiplex Gene Repression in Streptomyces. <i>Biotechnology Journal</i> , 2018 , 13, e1800121	5.6	40
60	Structural basis for the recognition of sulfur in phosphorothioated DNA. <i>Nature Communications</i> , 2018 , 9, 4689	17.4	19
59	Engineered Strains for Optimal Identification and Expression of Cryptic Biosynthetic Gene Clusters. <i>Frontiers in Microbiology</i> , 2018 , 9, 3042	5.7	24
58	Identification of a conserved DNA sulfur recognition domain by characterizing the phosphorothioate-specific endonuclease SprMcrA from Streptomyces pristinaespiralis. <i>Molecular Microbiology</i> , 2018 , 110, 484-497	4.1	6
57	NRPS Protein MarQ Catalyzes Flexible Adenylation and Specific S-Methylation. <i>ACS Chemical Biology</i> , 2018 , 13, 2387-2391	4.9	10
56	Streptomyces species: Ideal chassis for natural product discovery and overproduction. <i>Metabolic Engineering</i> , 2018 , 50, 74-84	9.7	62
55	Xantholipin B produced by the stnR inactivation mutant Streptomyces flocculus CGMCC 4.1223 WJN-1. <i>Journal of Antibiotics</i> , 2017 , 70, 90-95	3.7	5
54	Large-Scale Transposition Mutagenesis of Streptomyces coelicolor Identifies Hundreds of Genes Influencing Antibiotic Biosynthesis. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	39
53	Mechanistic Investigation on ROS Resistance of Phosphorothioated DNA. <i>Scientific Reports</i> , 2017 , 7, 42823	4.3	14
52	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
51	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
50	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
49	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

48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	De Novo Biosynthesis of β -Valienamine in Engineered <i>Streptomyces hygrosopicus</i> 5008. <i>ACS Synthetic Biology</i> , 2016 , 5, 15-20	5.7	7
40	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
39	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
38	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
37	Identification of (2S,3S)- β -Methyltryptophan as the Real Biosynthetic Intermediate of Antitumor Agent Streptonigrin. <i>Scientific Reports</i> , 2016 , 6, 20273	4.9	13
36	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
35	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
34	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
33	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
32	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
31	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

30	Development of sp. FR-008 as an emerging chassis. <i>Synthetic and Systems Biotechnology</i> , 2016 , 1, 207-214.	4.2	22
29	Identification and engineering of regulation-related genes toward improved kasugamycin production. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 1811-1821	5.7	7
28	An Alternative Approach to Synthesizing Galactooligosaccharides by Cell-Surface Display of Galactosidase on <i>Yarrowia lipolytica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 3819-27	5.7	22
27	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
26	Indole methylation protects diketopiperazine configuration in the maremycin biosynthetic pathway. <i>Science China Chemistry</i> , 2016 , 59, 1224-1228	7.9	13
25	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
24	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
23	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
22	The standalone aminopeptidase PepN catalyzes the maturation of blasticidin S from leucylblasticidin S. <i>Scientific Reports</i> , 2015 , 5, 17641	4.9	4
21	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
20	Metabolic engineering of microbes for branched-chain biodiesel production with low-temperature property. <i>Biotechnology for Biofuels</i> , 2015 , 8, 92	7.8	40
19	Recognition and cleavage of 5-methylcytosine DNA by bacterial SRA-HNH proteins. <i>Nucleic Acids Research</i> , 2015 , 43, 1147-59	20.1	16
18	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	
17	SecReT6: a web-based resource for type VI secretion systems found in bacteria. <i>Environmental Microbiology</i> , 2015 , 17, 2196-202	5.2	94
16	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
15	Biosynthesis of the N-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
14	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
13	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

12	Genomic mapping of phosphorothioates reveals partial modification of short consensus sequences. <i>Nature Communications</i> , 2014 , 5, 3951	17.4	70
11	Improving the expression of recombinant proteins in E. coli BL21 (DE3) under acetate stress: an alkaline pH shift approach. <i>PLoS ONE</i> , 2014 , 9, e112777	3.7	24
10	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
9	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
8	Effect of copper sulfate on biosynthesis of FR-008/Candididin complex production in <i>Streptomyces</i> sp.. <i>World Journal of Microbiology and Biotechnology</i> , 2011 , 27, 2033-2039	4.4	4
7	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
6	polR, 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
5	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
4	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
3	Phosphorothioation of DNA in bacteria by <i>dnd</i> genes. <i>Nature Chemical Biology</i> , 2007 , 3, 709-10	11.7	191
2	Antibiotic biosynthetic pathways and pathway engineering--a growing research field in China. <i>Natural Product Reports</i> , 2006 , 23, 811-27	15.1	8
1	Computational studies on the substrate specificity of an acyltransferase domain from salinomycin polyketide synthase. <i>Catalysis Science and Technology</i> ,	5.5	2