

# Zixin Deng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1777757/publications.pdf>

Version: 2024-02-01

182  
papers

6,709  
citations

81743

39  
h-index

85405

71  
g-index

185  
all docs

185  
docs citations

185  
times ranked

7726  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Two new streptovaricin derivatives from mutants of <i>Streptomyces spectabilis</i> CCTCC M2017417. <i>Natural Product Research</i> , 2022, 36, 3689-3694.  | 1.0  | 2         |
| 2  | Systematic identification of <i>Ocimum sanctum</i> sesquiterpenoid synthases and (â <sup>~</sup> )-eremophilene overproduction in engineered yeast. <i>Metabolic Engineering</i> , 2022, 69, 122-133.  | 3.6  | 24        |
| 3  | Biosynthesis of C-nucleoside antibiotics in actinobacteria: recent advances and future developments. <i>Microbial Cell Factories</i> , 2022, 21, 2.  | 1.9  | 9         |
| 4  | 3Î <sup>2</sup> -Hydroxysteroid dehydrogenase expressed by gut microbes degrades testosterone and is linked to depression in males. <i>Cell Host and Microbe</i> , 2022, 30, 329-339.e5.   | 5.1  | 45        |
| 5  | The Biosynthesis and Transport of Ophiobolins in <i>Aspergillus ustus</i> 094102. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1903.   | 1.8  | 4         |
| 6  | Anti-CRISPRdb v2.2: an online repository of anti-CRISPR proteins including information on inhibitory mechanisms, activities and neighbors of curated anti-CRISPR proteins. <i>Database: the Journal of Biological Databases and Curation</i> , 2022, 2022, . | 1.4  | 13        |
| 7  | Functional and Structural Dissection of a Plant Steroid 3-O-Glycosyltransferase Facilitated the Engineering Enhancement of Sugar Donor Promiscuity. <i>ACS Catalysis</i> , 2022, 12, 2927-2937.  | 5.5  | 25        |
| 8  | Revolution of vitamin E production by starting from microbial fermented farnesene to isophytol. <i>Innovation(China)</i> , 2022, 3, 100228.  | 5.2  | 13        |
| 9  | Coupling cell growth and biochemical pathway induction in <i>Saccharomyces cerevisiae</i> for production of (+)-valencene and its chemical conversion to (+)-nootkatone. <i>Metabolic Engineering</i> , 2022, 72, 107-115.                                   | 3.6  | 22        |
| 10 | A marine-derived small molecule induces immunogenic cell death against triple-negative breast cancer through ER stress-CHOP pathway. <i>International Journal of Biological Sciences</i> , 2022, 18, 2898-2913.  | 2.6  | 12        |
| 11 | Efficient exploration of terpenoid biosynthetic gene clusters in filamentous fungi. <i>Nature Catalysis</i> , 2022, 5, 277-287.  | 16.1 | 33        |
| 12 | Discovery of non-squalene triterpenes. <i>Nature</i> , 2022, 606, 414-419.   | 13.7 | 71        |
| 13 | EcoliGD: An Online Tool for Designing <i>Escherichia coli</i> Genome. <i>ACS Synthetic Biology</i> , 2022, 11, 2267-2274.  | 1.9  | 0         |
| 14 | Antibacterial natural products lobophorin L and M from the marine-derived <i>Streptomyces</i> sp. 4506. <i>Natural Product Research</i> , 2021, 35, 5581-5587.   | 1.0  | 23        |
| 15 | Harnessing in vitro platforms for natural product research: in vitro driven rational engineering and mining (iDREAM). <i>Current Opinion in Biotechnology</i> , 2021, 69, 1-9.   | 3.3  | 15        |
| 16 | A Dual Role Reductase from Phytosterols Catabolism Enables the Efficient Production of Valuable Steroid Precursors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5414-5420.  | 7.2  | 35        |
| 17 | Harnessing synthetic biology-based strategies for engineered biosynthesis of nucleoside natural products in actinobacteria. <i>Biotechnology Advances</i> , 2021, 46, 107673.  | 6.0  | 8         |
| 18 | Deubiquitinase Ubp3 enhances the proteasomal degradation of key enzymes in sterol homeostasis. <i>Journal of Biological Chemistry</i> , 2021, 296, 100348.   | 1.6  | 5         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Two putative parallel pathways for naringenin biosynthesis in <i>Epimedium wushanense</i> . RSC Advances, 2021, 11, 13919-13927.   | 1.7 | 10        |
| 20 | Genome Mining Reveals a Multiproduct Sesterterpenoid Biosynthetic Gene Cluster in <i>Aspergillus ustus</i> . Organic Letters, 2021, 23, 1525-1529.   | 2.4 | 27        |
| 21 | 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        |
| 22 | Nitrogen–Nitrogen Bond Formation Reactions Involved in Natural Product Biosynthesis. ACS Chemical Biology, 2021, 16, 559-570.  | 1.6 | 32        |
| 23 | Two Cryptic Self-Resistance Mechanisms in <i>Streptomyces tenebrarius</i> Reveal Insights into the Biosynthesis of Apramycin. Angewandte Chemie - International Edition, 2021, 60, 8990-8996.  | 7.2 | 10        |
| 24 | Single-molecule optical mapping of the distribution of DNA phosphorothioate epigenetics. Nucleic Acids Research, 2021, 49, 3672-3680.  | 6.5 | 16        |
| 25 | Two Cryptic Self-Resistance Mechanisms in <i>Streptomyces tenebrarius</i> Reveal Insights into the Biosynthesis of Apramycin. Angewandte Chemie, 2021, 133, 9072-9078.   | 1.6 | 2         |
| 26 | SspABCD-SspFGH Constitutes a New Type of DNA Phosphorothioate-Based Bacterial Defense System. MBio, 2021, 12, .  | 1.8 | 15        |
| 27 | Improving the Precision of Base Editing by Bubble Hairpin Single Guide RNA. MBio, 2021, 12, .  | 1.8 | 14        |
| 28 | The concordance between the evolutionary trend and the clinical manifestation of the two SARS-CoV-2 variants. National Science Review, 2021, 8, nwab073.   | 4.6 | 2         |
| 29 | The Mechanism of Dehydrating Bimodules in <i>trans</i> -Acyltransferase Polyketide Biosynthesis: A Showcase Study on Hepatoprotective Hangtaimycin. Angewandte Chemie - International Edition, 2021, 60, 19139-19143.                | 7.2 | 7         |
| 30 | 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        |
| 31 | Rapid Profiling of Chemical Constituents in Qingfei Paidu Granules Using High Performance Liquid Chromatography Coupled with Q Exactive Mass Spectrometry. Chromatographia, 2021, 84, 1035-1048.                                     | 0.7 | 6         |
| 32 | Mechanistic Insights into Dideoxygenation in Gentamicin Biosynthesis. ACS Catalysis, 2021, 11, 12274-12283.  | 5.5 | 5         |
| 33 | Quantitative elucidation of associations between nucleotide identity and physicochemical properties of amino acids and the functional insight. Computational and Structural Biotechnology Journal, 2021, 19, 4042-4048.              | 1.9 | 3         |
| 34 | 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        |
| 35 | Consistent Clustering Pattern of Prokaryotic Genes Based on Base Frequency at the Second Codon Position and its Association with Functional Category Preference. Interdisciplinary Sciences, Computational Life Sciences, 2021, , 1. | 2.2 | 0         |
| 36 | Efficient biosynthesis of nucleoside cytokinin angustmycin A containing an unusual sugar system. Nature Communications, 2021, 12, 6633.  | 5.8 | 12        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Comparative Investigation into Formycin A and Pyrazofurin A Biosynthesis Reveals Branch Pathways for the Construction of <i>C</i> -Nucleoside Scaffolds. <i>Applied and Environmental Microbiology</i> , 2020, 86, .                                 | 1.4 | 15        |
| 38 | The Biosynthesis of the Benzoxazole in Nataxazole Proceeds via an Unstable Ester and has Synthetic Utility. <i>Angewandte Chemie</i> , 2020, 132, 6110-6117.   | 1.6 | 5         |
| 39 | The Biosynthesis of the Benzoxazole in Nataxazole Proceeds via an Unstable Ester and has Synthetic Utility. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6054-6061.  | 7.2 | 24        |
| 40 | Ubiquitin Linkage Specificity of Deubiquitinases Determines Cyclophilin Nuclear Localization and Degradation. <i>IScience</i> , 2020, 23, 100984.  | 1.9 | 5         |
| 41 | Single-Step Replacement of an Unreactive C-H Bond by a C-S Bond Using Polysulfide as the Direct Sulfur Source in the Anaerobic Ergothioneine Biosynthesis. <i>ACS Catalysis</i> , 2020, 10, 8981-8994.   | 5.5 | 15        |
| 42 | Discovery of the cryptic function of terpene cyclases as aromatic prenyltransferases. <i>Nature Communications</i> , 2020, 11, 3958.   | 5.8 | 22        |
| 43 | Cross-Module Enoylreduction in the Azalomycin...F Polyketide Synthase. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22738-22742.   | 7.2 | 8         |
| 44 | Uncovering the cytochrome P450-catalyzed methylenedioxy bridge formation in streptovaricins biosynthesis. <i>Nature Communications</i> , 2020, 11, 4501.   | 5.8 | 15        |
| 45 | Epigenetic competition reveals density-dependent regulation and target site plasticity of phosphorothioate epigenetics in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14322-14330. | 3.3 | 25        |
| 46 | An Fe <sup>2+</sup> - and Î±-Ketoglutarate-Dependent Halogenase Acts on Nucleotide Substrates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9478-9484.   | 7.2 | 24        |
| 47 | An Fe <sup>2+</sup> - and Î±-Ketoglutarate-Dependent Halogenase Acts on Nucleotide Substrates. <i>Angewandte Chemie</i> , 2020, 132, 9565-9571.  | 1.6 | 6         |
| 48 | Semisynthesis of Plant-Derived Englerin A Enabled by Microbe Engineering of Guaia-6,10(14)-diene as Building Block. <i>Journal of the American Chemical Society</i> , 2020, 142, 2760-2765.  | 6.6 | 36        |
| 49 | Exploration of Hygromycin B Biosynthesis Utilizing CRISPR-Cas9-Associated Base Editing. <i>ACS Chemical Biology</i> , 2020, 15, 1417-1423.   | 1.6 | 17        |
| 50 | SspABCD- SspE is a phosphorothioation-sensing bacterial defence system with broad anti-phage activities. <i>Nature Microbiology</i> , 2020, 5, 917-928.  | 5.9 | 86        |
| 51 | Recent Advances in the Genomic Profiling of Bacterial Epigenetic Modifications. <i>Biotechnology Journal</i> , 2019, 14, e1800001.   | 1.8 | 14        |
| 52 | Proteomics Links Ubiquitin Chain Topology Change to Transcription Factor Activation. <i>Molecular Cell</i> , 2019, 76, 126-137.e7.   | 4.5 | 24        |
| 53 | Overproduction of gentamicin B in industrial strain <i>Micromonospora echinospora</i> CCTCC M 2018898 by cloning of the missing genes <i>genR</i> and <i>genS</i> . <i>Metabolic Engineering Communications</i> , 2019, 9, e00096.                   | 1.9 | 5         |
| 54 | A biocatalytic hydroxylation-enabled unified approach to C19-hydroxylated steroids. <i>Nature Communications</i> , 2019, 10, 3378.   | 5.8 | 34        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Enzymatic Reconstitution and Biosynthetic Investigation of the Bacterial Carbazole Neocarazostatin A. <i>Journal of Organic Chemistry</i> , 2019, 84, 16323-16328.                                     | 1.7 | 12        |
| 56 | The Biological Applications of Two Aggregation-Induced Emission Luminogens. <i>Biotechnology Journal</i> , 2019, 14, e1900212.   | 1.8 | 7         |
| 57 | Genome mining in <i>Trichoderma viride</i> J1-030: discovery and identification of novel sesquiterpene synthase and its products. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2052-2058. | 1.3 | 13        |
| 58 | Biochemical Characterization of a Multifunctional Mononuclear Nonheme Iron Enzyme (PtID) in Neopentalenoketolactone Biosynthesis. <i>Organic Letters</i> , 2019, 21, 7592-7596.                        | 2.4 | 9         |
| 59 | <i>In Vitro</i> Packaging Mediated One-Step Targeted Cloning of Natural Product Pathway. <i>ACS Synthetic Biology</i> , 2019, 8, 1991-1997.  | 1.9 | 18        |
| 60 | Systematic Metabolic Engineering of <i>Saccharomyces cerevisiae</i> for Lycopene Overproduction. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 11148-11157.                            | 2.4 | 79        |
| 61 | Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux. <i>Nature Communications</i> , 2019, 10, 4248.   | 5.8 | 158       |
| 62 | Production of sesterterpene ophiobolin by a bifunctional terpene synthase in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8785-8797.                           | 1.7 | 14        |
| 63 | Sesterterpene MHO7 suppresses breast cancer cells as a novel estrogen receptor degrader. <i>Pharmacological Research</i> , 2019, 146, 104294.  | 3.1 | 18        |
| 64 | Gut microbiome interventions in human health and diseases. <i>Medicinal Research Reviews</i> , 2019, 39, 2286-2313.  | 5.0 | 52        |
| 65 | Advances in CRISPR-Cas systems for RNA targeting, tracking and editing. <i>Biotechnology Advances</i> , 2019, 37, 708-729.   | 6.0 | 95        |
| 66 | Rational engineering acyltransferase domain of modular polyketide synthase for expanding substrate specificity. <i>Methods in Enzymology</i> , 2019, 622, 271-292.                                     | 0.4 | 4         |
| 67 | Efficient editing DNA regions with high sequence identity in actinomycetal genomes by a CRISPR-Cas9 system. <i>Synthetic and Systems Biotechnology</i> , 2019, 4, 86-91.                               | 1.8 | 33        |
| 68 | A new type of DNA phosphorothioation-based antiviral system in archaea. <i>Nature Communications</i> , 2019, 10, 1688.   | 5.8 | 54        |
| 69 | Characterization of the Biosynthetic Gene Cluster for the Antibiotic Armeniaspirols in <i>Streptomyces armeniacus</i> . <i>Journal of Natural Products</i> , 2019, 82, 318-323.                        | 1.5 | 23        |
| 70 | Unravelling the Biosynthetic Flexibility of UK-2A Enables Enzymatic Synthesis of Its Structural Variants. <i>ACS Synthetic Biology</i> , 2019, 8, 2659-2665.   | 1.9 | 3         |
| 71 | Divergent Biosynthesis of C-Nucleoside Minimycin and Indigoidine in Bacteria. <i>IScience</i> , 2019, 22, 430-440.   | 1.9 | 21        |
| 72 | Toxicity, Pharmacokinetics, and Gut Microbiome of Oral Administration of Sesterterpene MHO7 Derived from a Marine Fungus. <i>Marine Drugs</i> , 2019, 17, 667.   | 2.2 | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Hexafluoroisopropanol-based hydrophobic deep eutectic solvents for dispersive liquid-liquid microextraction of pyrethroids in tea beverages and fruit juices. <i>Food Chemistry</i> , 2019, 274, 891-899.           | 4.2 | 123       |
| 74 | Engineering and modification of microbial chassis for systems and synthetic biology. <i>Synthetic and Systems Biotechnology</i> , 2019, 4, 25-33.   | 1.8 | 52        |
| 75 | Tight control of genomic phosphorothioate modification by the ATP-modulated autoregulation and reusability of DndB. <i>Molecular Microbiology</i> , 2019, 111, 938-950.   | 1.2 | 9         |
| 76 | Lipid engineering combined with systematic metabolic engineering of <i>Saccharomyces cerevisiae</i> for high-yield production of lycopene. <i>Metabolic Engineering</i> , 2019, 52, 134-142.                        | 3.6 | 251       |
| 77 | <i>Streptomyces avermitilis</i> industrial strain as cell factory for Ivermectin B1a production. <i>Synthetic and Systems Biotechnology</i> , 2019, 4, 34-39.   | 1.8 | 12        |
| 78 | Genetic mechanisms of arsenic detoxification and metabolism in bacteria. <i>Current Genetics</i> , 2019, 65, 329-338.   | 0.8 | 77        |
| 79 | Mechanistic Studies of a Nonheme Iron Enzyme OvoA in Ovosin Biosynthesis Using a Tyrosine Analogue, 2-Amino-3-(4-hydroxy-3-(methoxyl) phenyl) Propanoic Acid (MeOTyr). <i>ACS Catalysis</i> , 2019, 9, 253-258.     | 5.5 | 22        |
| 80 | Sesquiterpenoids Produced by Combining Two Sesquiterpene Cyclases with Promiscuous Myxobacterial CYP260B1. <i>ChemBioChem</i> , 2019, 20, 677-682.  | 1.3 | 9         |
| 81 | DNA phosphorothioate modification—a new multi-functional epigenetic system in bacteria. <i>FEMS Microbiology Reviews</i> , 2019, 43, 109-122.   | 3.9 | 87        |
| 82 | <i>Streptomyces polaris</i> sp. nov. and <i>Streptomyces septentrionalis</i> sp. nov., isolated from frozen soil. <i>Antonie Van Leeuwenhoek</i> , 2019, 112, 375-387.  | 0.7 | 10        |
| 83 | Metabolic Engineering-Based Rapid Characterization of a Sesquiterpene Cyclase and the Skeletons of Fusariumdiene and Fusagramineol from <i>Fusarium graminearum</i> . <i>Organic Letters</i> , 2018, 20, 1626-1629. | 2.4 | 27        |
| 84 | Modification of $\epsilon$ -poly-L-lysine in vivo to reduce self-toxicity and enhance antibiotic overproduction. <i>AIChE Journal</i> , 2018, 64, 4187-4192.  | 1.8 | 1         |
| 85 | Gemin5 plays a role in unassembled snRNA disposal in SMN-deficient cells. <i>FEBS Letters</i> , 2018, 592, 1400-1411.   | 1.3 | 7         |
| 86 | Structural Basis of a Broadly Selective Acyltransferase from the Polyketide Synthase of Splenocin. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5823-5827.  | 7.2 | 30        |
| 87 | Synthetische Genomik: von der DNA-Synthese zu Designer-Genomen. <i>Angewandte Chemie</i> , 2018, 130, 1764-1773.  | 1.6 | 1         |
| 88 | Methyltransferases of gentamicin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1340-1345.   | 3.3 | 41        |
| 89 | Puromycin A, B and C, cryptic nucleosides identified from <i>Streptomyces alboniger</i> NRRL B-1832 by PPTase-based activation. <i>Synthetic and Systems Biotechnology</i> , 2018, 3, 76-80.                        | 1.8 | 17        |
| 90 | Signature Arsenic Detoxification Pathways in <i>Halomonas</i> sp. Strain GFAJ-1. <i>MBio</i> , 2018, 9, .   | 1.8 | 19        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | An ATP-Dependent Ligase with Substrate Flexibility Involved in Assembly of the Peptidyl Nucleoside Antibiotic Polyoxin. <i>Applied and Environmental Microbiology</i> , 2018, 84, .   | 1.4 | 10        |
| 92  | Structural Basis of a Broadly Selective Acyltransferase from the Polyketide Synthase of Splenocin. <i>Angewandte Chemie</i> , 2018, 130, 5925-5929.   | 1.6 | 6         |
| 93  | Use of a Tyrosine Analogue To Modulate the Two Activities of a Nonheme Iron Enzyme OvoA in Ovothiol Biosynthesis, Cysteine Oxidation versus Oxidative C-S Bond Formation. <i>Journal of the American Chemical Society</i> , 2018, 140, 4604-4612. | 6.6 | 42        |
| 94  | Occurrence, evolution, and functions of DNA phosphorothioate epigenetics in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2988-E2996.  | 3.3 | 72        |
| 95  | Genome Engineering and Modification Toward Synthetic Biology for the Production of Antibiotics. <i>Medicinal Research Reviews</i> , 2018, 38, 229-260.  | 5.0 | 16        |
| 96  | Synthetic Genomics: From DNA Synthesis to Genome Design. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1748-1756.  | 7.2 | 35        |
| 97  | Expanding the Bioactive Chemical Space of Anthrabenzoquinones through Engineering the Highly Promiscuous Biosynthetic Modification Steps. <i>ACS Chemical Biology</i> , 2018, 13, 200-206.  | 1.6 | 13        |
| 98  | Genomic identification and functional analysis of essential genes in <i>Caenorhabditis elegans</i> . <i>BMC Genomics</i> , 2018, 19, 871.   | 1.2 | 10        |
| 99  | Eine chimäre pilzliche Diterpensynthase der Klade II aus <i>Colletotrichum gloeosporioides</i> produziert Dolastan (15), 8-dien. <i>Angewandte Chemie</i> , 2018, 130, 16113-16117.   | 1.6 | 15        |
| 100 | A Clade II Fungal Chimeric Diterpene Synthase from <i>Colletotrichum gloeosporioides</i> Produces Dolastan (15), 8-diene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15887-15890.   | 7.2 | 57        |
| 101 | Aglycone Polyether Nanchangmycin and Its Homologues Exhibit Apoptotic and Antiproliferative Activities against Cancer Stem Cells. <i>ACS Pharmacology and Translational Science</i> , 2018, 1, 84-95.   | 2.5 | 10        |
| 102 | Efficient biosynthesis of heterodimeric C3-aryl pyrroloindoline alkaloids. <i>Nature Communications</i> , 2018, 9, 4428.  | 5.8 | 53        |
| 103 | Coordinated Biosynthesis of the Purine Nucleoside Antibiotics Aristeromycin and Coformycin in Actinomycetes. <i>Applied and Environmental Microbiology</i> , 2018, 84, .  | 1.4 | 9         |
| 104 | Discovery and characterization of the tubercidin biosynthetic pathway from <i>Streptomyces tubercidicus</i> NBRC 13090. <i>Microbial Cell Factories</i> , 2018, 17, 131.  | 1.9 | 20        |
| 105 | CRISPR/Cas9-Based Editing of <i>Streptomyces</i> for Discovery, Characterization, and Production of Natural Products. <i>Frontiers in Microbiology</i> , 2018, 9, 1660.   | 1.5 | 49        |
| 106 | Direct Genetic and Enzymatic Evidence for Oxidative Cyclization in Hygromycin B Biosynthesis. <i>ACS Chemical Biology</i> , 2018, 13, 2203-2210.  | 1.6 | 13        |
| 107 | Mechanistic studies of DepR in regulating FK228 biosynthesis in <i>Chromobacterium violaceum</i> no. 968. <i>PLoS ONE</i> , 2018, 13, e0196173.   | 1.1 | 2         |
| 108 | The Catalytic Mechanism of the Class C Radical S-Adenosylmethionine Methyltransferase NosN. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3857-3861.   | 7.2 | 42        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | An Unusual Protector-Protector Strategy for the Biosynthesis of Purine Nucleoside Antibiotics. <i>Cell Chemical Biology</i> , 2017, 24, 171-181.   | 2.5 | 38        |
| 110 | Production of taxadiene by engineering of mevalonate pathway in <i>Escherichia coli</i> and endophytic fungus <i>Alternaria alternata</i> TPF6. <i>Biotechnology Journal</i> , 2017, 12, 1600697.  | 1.8 | 39        |
| 111 | Biosynthesis of 2-Chloropentostatin and 2-Amino-2-Deoxyadenosine Highlights a Single Gene Cluster Responsible for Two Independent Pathways in <i>Actinomadura</i> sp. Strain ATCC 39365. <i>Applied and Environmental Microbiology</i> , 2017, 83, . | 1.4 | 15        |
| 112 | Heterologous Biosynthesis of Spinosad: An Omics-Guided Large Polyketide Synthase Gene Cluster Reconstitution in <i>Streptomyces</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 995-1005.  | 1.9 | 70        |
| 113 | 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.   | 3.3 | 64        |
| 114 | Releasing the potential power of terpene synthases by a robust precursor supply platform. <i>Metabolic Engineering</i> , 2017, 42, 1-8.  | 3.6 | 93        |
| 115 | An Iterative Module in the Azalomycin F Polyketide Synthase Contains a Switchable Enoylreductase Domain. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5503-5506.   | 7.2 | 27        |
| 116 | An Iterative Module in the Azalomycin F Polyketide Synthase Contains a Switchable Enoylreductase Domain. <i>Angewandte Chemie</i> , 2017, 129, 5595-5598.  | 1.6 | 8         |
| 117 | Innenteilbild: The Catalytic Mechanism of the Class C Radical S-Adenosylmethionine Methyltransferase NosN ( <i>Angew. Chem.</i> 14/2017). <i>Angewandte Chemie</i> , 2017, 129, 3780-3780.   | 1.6 | 0         |
| 118 | Heterologous expression of Avermectins biosynthetic gene cluster by construction of a Bacterial Artificial Chromosome library of the producers. <i>Synthetic and Systems Biotechnology</i> , 2017, 2, 59-64.   | 1.8 | 21        |
| 119 | Activation of Natural Products Biosynthetic Pathways via a Protein Modification Level Regulation. <i>ACS Chemical Biology</i> , 2017, 12, 1732-1736.   | 1.6 | 44        |
| 120 | Functional Analysis of Cytochrome P450s Involved in Streptovaricin Biosynthesis and Generation of Anti-MRSA Analogues. <i>ACS Chemical Biology</i> , 2017, 12, 2589-2597.  | 1.6 | 16        |
| 121 | Enantioselective Synthesis of 1-Aryl-Substituted Tetrahydroisoquinolines Employing Imine Reductase. <i>ACS Catalysis</i> , 2017, 7, 7003-7007.   | 5.5 | 51        |
| 122 | From Anilines to Quinolines: Iodide- and Silver-Mediated Aerobic Double C-H Oxidative Annulation-Aromatization. <i>Chemistry - A European Journal</i> , 2017, 23, 15874-15878.   | 1.7 | 14        |
| 123 | PhID: An Open-Access Integrated Pharmacology Interactions Database for Drugs, Targets, Diseases, Genes, Side-Effects, and Pathways. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 2395-2400.                                       | 2.5 | 9         |
| 124 | Biosynthesis of the nosiheptide indole side ring centers on a cryptic carrier protein NosJ. <i>Nature Communications</i> , 2017, 8, 437.   | 5.8 | 20        |
| 125 | Stabilization of Multimeric Proteins via Intersubunit Cyclization. <i>Applied and Environmental Microbiology</i> , 2017, 83, .   | 1.4 | 6         |
| 126 | Strategies for terpenoid overproduction and new terpenoid discovery. <i>Current Opinion in Biotechnology</i> , 2017, 48, 234-241.  | 3.3 | 99        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Synthesis and biological evaluation of salinomycin triazole analogues as anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2017, 127, 900-908.  | 2.6 | 51        |
| 128 | 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. <i>Chemical Science</i> , 2017, 8, 444-451.                                | 3.7 | 23        |
| 129 | The Biological Activities of Sesterterpenoid-Type Ophiobolins. <i>Marine Drugs</i> , 2017, 15, 229.   | 2.2 | 53        |
| 130 | Parallel pathways in the biosynthesis of aminoglycoside antibiotics. <i>F1000Research</i> , 2017, 6, 723.   | 0.8 | 8         |
| 131 | Halichoblelide D, a New Elaiophylin Derivative with Potent Cytotoxic Activity from Mangrove-Derived <i>Streptomyces</i> sp. 219807. <i>Molecules</i> , 2016, 21, 970.   | 1.7 | 23        |
| 132 | Absolute quantification of proteins in the fatty acid biosynthetic pathway using protein standard absolute quantification. <i>Synthetic and Systems Biotechnology</i> , 2016, 1, 150-157.   | 1.8 | 9         |
| 133 | An insight into the protospacer adjacent motif of <i>Streptococcus pyogenes</i> Cas9 with artificially stimulated RNA-guided-Cas9 DNA cleavage flexibility. <i>RSC Advances</i> , 2016, 6, 33514-33522.   | 1.7 | 13        |
| 134 | In vitro reconstitution guide for targeted synthetic metabolism of chemicals, nutraceuticals and drug precursors. <i>Synthetic and Systems Biotechnology</i> , 2016, 1, 25-33.  | 1.8 | 15        |
| 135 | Characterization of a C3 Deoxygenation Pathway Reveals a Key Branch Point in Aminoglycoside Biosynthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 6427-6435.   | 6.6 | 38        |
| 136 | A ThDP-dependent enzymatic carbonylation reaction involved in Neocarazostatin A tricyclic carbazole formation. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8679-8684.   | 1.5 | 17        |
| 137 | Deciphering Carbamoylpolyoxamic Acid Biosynthesis Reveals Unusual Acetylation Cycle Associated with Tandem Reduction and Sequential Hydroxylation. <i>Cell Chemical Biology</i> , 2016, 23, 935-944.  | 2.5 | 26        |
| 138 | Lost region in amyloid precursor protein (APP) through TALEN-mediated genome editing alters mitochondrial morphology. <i>Scientific Reports</i> , 2016, 6, 22244.   | 1.6 | 18        |
| 139 | Characterization of the aurantimycin biosynthetic gene cluster and enhancing its production by manipulating two pathway-specific activators in <i>Streptomyces aurantiacus</i> JA 4570. <i>Microbial Cell Factories</i> , 2016, 15, 160.                  | 1.9 | 24        |
| 140 | An unusual UMP C-5 methylase in nucleoside antibiotic polyoxin biosynthesis. <i>Protein and Cell</i> , 2016, 7, 673-683.  | 4.8 | 9         |
| 141 | Deciphering Piperidine Formation in Polyketide-Derived Indolizidines Reveals a Thioester Reduction, Transamination, and Unusual Imine Reduction Process. <i>ACS Chemical Biology</i> , 2016, 11, 3278-3283.   | 1.6 | 40        |
| 142 | Substitution of a Single Amino Acid Reverses the Regiospecificity of the Baeyer-Villiger Monooxygenase PntE in the Biosynthesis of the Antibiotic Pentalenolactone. <i>Biochemistry</i> , 2016, 55, 6696-6704.  | 1.2 | 12        |
| 143 | Sesterterpene ophiobolin biosynthesis involving multiple gene clusters in <i>Aspergillus ustus</i> . <i>Scientific Reports</i> , 2016, 6, 27181.  | 1.6 | 33        |
| 144 | Evaluation of 3-hydroxypropionate biosynthesis in vitro by partial introduction of the 3-hydroxypropionate/4-hydroxybutyrate cycle from <i>Metallosphaera sedula</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1313-1321. | 1.4 | 7         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 145 | <scp>SMM</scp> 50 Affects Mitochondrial Morphology through the Association of Drp1 in Mammalian Cells. FEBS Letters, 2016, 590, 1313-1323.  | 1.3  | 19        |
| 146 | Identifying the Minimal Enzymes for Unusual Carbon-Sulfur Bond Formation in Thienodolin Biosynthesis. ChemBioChem, 2016, 17, 799-803.   | 1.3  | 20        |
| 147 | Genome mining of astaxanthin biosynthetic genes from <i>Sphingomonas</i> sp. ATCC 55669 for heterologous overproduction in <i>Escherichia coli</i>. Biotechnology Journal, 2016, 11, 228-237.   | 1.8  | 56        |
| 148 | Enhanced Purification of Ubiquitinated Proteins by Engineered Tandem Hybrid Ubiquitin-binding Domains (ThUBDs). Molecular and Cellular Proteomics, 2016, 15, 1381-1396.   | 2.5  | 44        |
| 149 | Microbial production strategies and applications of lycopene and other terpenoids. World Journal of Microbiology and Biotechnology, 2016, 32, 15.   | 1.7  | 37        |
| 150 | A small-molecule dye for NIR-II imaging. Nature Materials, 2016, 15, 235-242.   | 13.3 | 1,314     |
| 151 | Natural and engineered biosynthesis of nucleoside antibiotics in <i>Actinomycetes</i>. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 401-417.   | 1.4  | 40        |
| 152 | Streptomyces arcticus sp. nov., isolated from frozen soil. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 1482-1487.  | 0.8  | 15        |
| 153 | Mitofilin and CHCHD6 physically interact with Sam50 to sustain cristae structure. Scientific Reports, 2015, 5, 16064.   | 1.6  | 99        |
| 154 | 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        |
| 155 | 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        |
| 156 | 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        |
| 157 | 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        |
| 158 | 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        |
| 159 | Identification and optimization of 2-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        |
| 160 | Characterization of the Biosynthetic Gene Cluster for Benzoxazole Antibiotics A33853 Reveals Unusual Assembly Logic. Chemistry and Biology, 2015, 22, 1313-1324.  | 6.2  | 48        |
| 161 | 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       |
| 162 | <i>In Vitro</i> CRISPR/Cas9 System for Efficient Targeted DNA Editing. MBio, 2015, 6, e01714-15.  | 1.8  | 59        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | Engineering an iterative polyketide pathway in <i>Escherichia coli</i> results in single-form alkene and alkane overproduction. <i>Metabolic Engineering</i> , 2015, 28, 82-90.   | 3.6 | 68        |
| 164 | <i>Micromonospora zhanjiangensis</i> sp. nov., isolated from mangrove forest soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 4880-4885.  | 0.8 | 12        |
| 165 | Recent advances in the elucidation of enzymatic function in natural product biosynthesis. <i>F1000Research</i> , 2015, 4, 1399.   | 0.8 | 3         |
| 166 | Mining of the Pyrrolamide Antibiotics Analogs in <i>Streptomyces netropsis</i> Reveals the Amidohydrolase-Dependent "Iterative Strategy" Underlying the Pyrrole Polymerization. <i>PLoS ONE</i> , 2014, 9, e99077.                                | 1.1 | 15        |
| 167 | Characterization of Biosynthetic Genes of Ascamycin/Dealanylascamycin Featuring a 5 <sup>â€²</sup> -O-Sulfonamide Moiety in <i>Streptomyces</i> sp. JCM9888. <i>PLoS ONE</i> , 2014, 9, e114722.  | 1.1 | 26        |
| 168 | Pairwise input neural network for target-ligand interaction prediction. , 2014, , .   |     | 20        |
| 169 | A practical process for the synthesis of translocator protein 18kDa imidazopyridine ligand. <i>Wuhan University Journal of Natural Sciences</i> , 2014, 19, 19-26.  | 0.2 | 0         |
| 170 | Metabolic engineering of <i>Escherichia coli</i> for production of fatty acid short-chain esters through combination of the fatty acid and 2-keto acid pathways. <i>Metabolic Engineering</i> , 2014, 22, 69-75.                                  | 3.6 | 55        |
| 171 | In vitro reconstitution of mevalonate pathway and targeted engineering of farnesene overproduction in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2014, 111, 1396-1405.   | 1.7 | 182       |
| 172 | Metabolic engineering of fatty acyl-ACP reductase-dependent pathway to improve fatty alcohol production in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2014, 22, 10-21.  | 3.6 | 95        |
| 173 | DNA phosphorothioate modifications influence the global transcriptional response and protect DNA from double-stranded breaks. <i>Scientific Reports</i> , 2014, 4, 6642.  | 1.6 | 40        |
| 174 | Characterization of a SAM-dependent fluorinase from a latent biosynthetic pathway for fluoroacetate and 4-fluorothreonine formation in <i>Nocardia brasiliensis</i> . <i>F1000Research</i> , 2014, 3, 61.   | 0.8 | 21        |
| 175 | In Vivo Mutational Characterization of DndE Involved in DNA Phosphorothioate Modification. <i>PLoS ONE</i> , 2014, 9, e107981.  | 1.1 | 12        |
| 176 | Biosynthesis of tetronate antibiotics: A growing family of natural products with broad biological activities. <i>Science China Chemistry</i> , 2013, 56, 1364-1371.   | 4.2 | 27        |
| 177 | Genetic dissection of the polyoxin building block-carbamoylpolyoxamic acid biosynthesis revealing the "pathway redundancy" in metabolic networks. <i>Microbial Cell Factories</i> , 2013, 12, 121.  | 1.9 | 11        |
| 178 | <i>Actinoallomurus acanthiterrae</i> sp. nov., an actinomycete isolated from rhizosphere soil of the mangrove plant <i>Acanthus ilicifolius</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1874-1879. | 0.8 | 12        |
| 179 | <i>Micromonospora sonneratae</i> sp. nov., isolated from a root of <i>Sonneratia apetala</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 2383-2388.  | 0.8 | 28        |
| 180 | Metal-free direct amidation of peptidyl thiol esters with $\alpha$ -amino acid esters. <i>Green Chemistry</i> , 2011, 13, 2723.   | 4.6 | 20        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 181 | Effect of ammonium in medium on ansamitocin P-3 production by <i>Actinosynnema pretiosum</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 119-125.                             | 1.4 | 14        |
| 182 | Microbial transformation of benzothiophenes, with carbazole as the auxiliary substrate, by <i>Sphingomonas</i> sp. strain XLDN2-5. <i>Microbiology (United Kingdom)</i> , 2008, 154, 3804-3812. | 0.7 | 34        |