

Ben Shen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7061408/publications.pdf>

Version: 2024-02-01

200
papers

13,885
citations

41627

51
h-index

28425

109
g-index

234
all docs

234
docs citations

234
times ranked

14992
citing authors

#	ARTICLE	IF	CITATIONS
1	MIO-containing aminomutases for $\hat{1}\pm$ - to $\hat{1}^2$ -amino acids. Trends in Chemistry, 2022, 4, 91-92.	4.4	0
2	Rational Approach to Identify RNA Targets of Natural Products Enables Identification of Nocathiacin as an Inhibitor of an Oncogenic RNA. ACS Chemical Biology, 2022, 17, 474-482.	1.6	5
3	Functional Characterization of Cytochrome P450 Hydroxylase YpmL in Yangpumicin A Biosynthesis and Its Application for Anthraquinone-Fused Eneidyne Structural Diversification. Organic Letters, 2022, 24, 1219-1223.	2.4	4
4	PtmC Catalyzes the Final Step of Thioplatensimycin, Thioplatencin, and Thioplatensilin Biosynthesis and Expands the Scope of Arylamine <i>N</i> -Acetyltransferases. ACS Chemical Biology, 2021, 16, 96-105.	1.6	6
5	Challenges and opportunities to develop enediyne natural products as payloads for antibody-drug conjugates. Antibody Therapeutics, 2021, 4, 1-15.	1.2	24
6	Cryptic Sulfur Incorporation in Thioangucycline Biosynthesis. Angewandte Chemie - International Edition, 2021, 60, 7140-7147.	7.2	10
7	Semisynthesis and Biological Evaluation of Platencin Thioether Derivatives: Dual FabF and FabH Inhibitors against MRSA. ACS Medicinal Chemistry Letters, 2021, 12, 433-442.	1.3	8
8	Cryptic Sulfur Incorporation in Thioangucycline Biosynthesis. Angewandte Chemie, 2021, 133, 7216-7223.	1.6	1
9	Submerged fermentation of <i>Streptomyces uncialis</i> providing a biotechnology platform for unciamycin biosynthesis, engineering, and production. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	1.4	3
10	Discovery of ammosesters by mining the <i>Streptomyces uncialis</i> DCA2648 genome revealing new insight into ammosamide biosynthesis. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	1.4	7
11	Introduction to the special issue: "Natural Product Discovery and Development in the Genomic Era: 2021" Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	1.4	2
12	Cytochrome P450 Hydroxylase TnmL Catalyzing Sequential Hydroxylation with an Additional Proofreading Activity in Tiansimycin Biosynthesis. ACS Chemical Biology, 2021, 16, 1172-1178.	1.6	9
13	Thiocysteine lyases as polyketide synthase domains installing hydropersulfide into natural products and a hydropersulfide methyltransferase. Nature Communications, 2021, 12, 5672.	5.8	10
14	Biosynthesis of Eneidyne Natural Products. , 2020, , 365-414.		14
15	Targeting Bacterial Genomes for Natural Product Discovery. Trends in Pharmacological Sciences, 2020, 41, 13-26.	4.0	66
16	Hybrid Peptide-Polyketide Natural Product Biosynthesis. , 2020, , 284-335.		3
17	Characterization of TnmH as an <i>O</i> -Methyltransferase Revealing Insights into Tiansimycin Biosynthesis and Enabling a Biocatalytic Strategy To Prepare Antibody-Tiansimycin Conjugates. Journal of Medicinal Chemistry, 2020, 63, 8432-8441.	2.9	18
18	Divergent synthesis of complex diterpenes through a hybrid oxidative approach. Science, 2020, 369, 799-806.	6.0	89

#	ARTICLE	IF	CITATIONS
19	The LnmK Bifunctional Acyltransferase/Decarboxylase Specifying (2 <i>R</i>)-Methylmalonyl-CoA and Employing Substrate-Assisted Catalysis for Polyketide Biosynthesis. <i>Biochemistry</i> , 2020, 59, 4143-4147.	1.2	5
20	Platensimycin-Encapsulated Liposomes or Micelles as Biosafe Nanoantibiotics Exhibited Strong Antibacterial Activities against Methicillin-Resistant <i>Staphylococcus aureus</i> Infection in Mice. <i>Molecular Pharmaceutics</i> , 2020, 17, 2451-2462.	2.3	19
21	The Isolation of Pyrroloformamide Congeners and Characterization of Their Biosynthetic Gene Cluster. <i>Journal of Natural Products</i> , 2020, 83, 202-209.	1.5	5
22	Platensimycin-Encapsulated Poly(lactic-co-glycolic acid) and Poly(amidoamine) Dendrimers Nanoparticles with Enhanced Anti- <i>Staphylococcal</i> Activity in Vivo. <i>Bioconjugate Chemistry</i> , 2020, 31, 1425-1437.	1.8	22
23	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. <i>Natural Product Reports</i> , 2019, 36, 35-107.	5.2	92
24	A 3-hydroxy-3-methylglutaryl-CoA synthase-based probe for the discovery of the acyltransferase-less type I polyketide synthases. <i>Environmental Microbiology</i> , 2019, 21, 4270-4282.	1.8	1
25	Characterization and Crystal Structure of a Nonheme Diiron Monooxygenase Involved in Platensimycin and Platencin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 12406-12412.	6.6	23
26	Leveraging a large microbial strain collection for natural product discovery. <i>Journal of Biological Chemistry</i> , 2019, 294, 16567-16576.	1.6	26
27	Yangpunicins F and G, Eneidyne Congeners from <i>Micromonospora yangpuensis</i> DSM 45577. <i>Journal of Natural Products</i> , 2019, 82, 2483-2488.	1.5	23
28	Evaluation of Platensimycin and Platensimycin-Inspired Thioether Analogues against Methicillin-Resistant <i>Staphylococcus aureus</i> in Topical and Systemic Infection Mouse Models. <i>Molecular Pharmaceutics</i> , 2019, 16, 3065-3071.	2.3	20
29	Late-Stage Functionalization of Platensimycin Leading to Multiple Analogues with Improved Antibacterial Activity in Vitro and in Vivo. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6682-6693.	2.9	14
30	Discovery of Kirromycins with Anti-Wolbachia Activity from <i>Streptomyces</i> sp. CB00686. <i>ACS Chemical Biology</i> , 2019, 14, 1174-1182.	1.6	7
31	Cryptic and Stereospecific Hydroxylation, Oxidation, and Reduction in Platensimycin and Platencin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 4043-4050.	6.6	25
32	Stereoselective functionalization of platensimycin and platencin by sulfa-Michael/aldol reactions. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4261-4272.	1.5	5
33	Challenges and opportunities for natural product discovery, production, and engineering in native producers versus heterologous hosts. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 433-444.	1.4	24
34	Herbicidins from <i>Streptomyces</i> sp. CB01388 Showing Anti- <i>Cryptosporidium</i> Activity. <i>Journal of Natural Products</i> , 2018, 81, 791-797.	1.5	12
35	The semi-synthesis, biological evaluation and docking analysis of the oxime, hydrazine and hydrazide derivatives of platensimycin. <i>MedChemComm</i> , 2018, 9, 789-794.	3.5	12
36	Ribosome engineering and fermentation optimization leads to overproduction of tiancimycin A, a new enediyne natural product from <i>Streptomyces</i> sp. CB03234. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 141-151.	1.4	29

#	ARTICLE	IF	CITATIONS
37	Biomimetic Stereoselective Sulfa-Michael Addition Leads to Platensimycin and Platencin Sulfur Analogues against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Journal of Natural Products</i> , 2018, 81, 316-322.	1.5	17
38	PokMT1 from the Polyketomycin Biosynthetic Machinery of <i>Streptomyces diastatochromogenes</i> TÅ¼6028 Belongs to the Emerging Family of C-Methyltransferases That Act on CoA-Activated Aromatic Substrates. <i>Biochemistry</i> , 2018, 57, 1003-1011.	1.2	8
39	Discovery of Alternative Producers of the Eneidyne Antitumor Antibiotic C-1027 with High Titrers. <i>Journal of Natural Products</i> , 2018, 81, 594-599.	1.5	13
40	Strain improvement by combined UV mutagenesis and ribosome engineering and subsequent fermentation optimization for enhanced 6â€²-deoxy-bleomycin Z production. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1651-1661.	1.7	25
41	Structural Insights into the Free-Standing Condensation Enzyme SgcC5 Catalyzing Ester-Bond Formation in the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027. <i>Biochemistry</i> , 2018, 57, 3278-3288.	1.2	10
42	Engineered production and evaluation of 6â€²-deoxy-tallysomycin H-1 revealing new insights into the structureâ€“activity relationship of the anticancer drug bleomycin. <i>Journal of Antibiotics</i> , 2018, 71, 97-103.	1.0	7
43	Oxidative activation of leinamycin E1 triggers alkylation of guanine residues in double-stranded DNA. <i>Chemical Communications</i> , 2018, 54, 256-259.	2.2	5
44	Semisynthesis and Biological Evaluation of Platensimycin Analogues with Varying Aminobenzoic Acids. <i>ChemistrySelect</i> , 2018, 3, 12625-12629.	0.7	6
45	Semisynthesis of Platensimycin Derivatives with Antibiotic Activities in Mice via Suzukiâ€“Miyaura Cross-Coupling Reactions. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11341-11348.	2.9	14
46	Discovery and Characterization of 1-Aminocyclopropane-1-carboxylic Acid Synthase of Bacterial Origin. <i>Journal of the American Chemical Society</i> , 2018, 140, 16957-16961.	6.6	24
47	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. <i>ACS Central Science</i> , 2018, 4, 1727-1741.	5.3	32
48	Comparative Studies of the Biosynthetic Gene Clusters for Anthraquinone-Fused Eneidynes Shedding Light into the Tailoring Steps of Tiancimycin Biosynthesis. <i>Organic Letters</i> , 2018, 20, 5918-5921.	2.4	34
49	Cytochrome P450-Catalyzed Hydroxylation Initiating Ether Formation in Platensimycin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 12349-12353.	6.6	31
50	Biochemical and Structural Characterization of TtnD, a Prenylated FMN-Dependent Decarboxylase from the Tautomycetin Biosynthetic Pathway. <i>ACS Chemical Biology</i> , 2018, 13, 2728-2738.	1.6	19
51	Discovery of the Tiancilactone Antibiotics by Genome Mining of Atypical Bacterial Typeâ€“II Diterpene Synthases. <i>ChemBioChem</i> , 2018, 19, 1727-1733.	1.3	18
52	Resistance to Eneidyne Antitumor Antibiotics by Sequestration. <i>Cell Chemical Biology</i> , 2018, 25, 1075-1085.e4.	2.5	21
53	The genome-wide sequence specificity of DNA cleavage by bleomycin analogues in human cells. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4168-4178.	1.4	5
54	P450-Catalyzed Tailoring Steps in Leinamycin Biosynthesis Featuring Regio- and Stereoselective Hydroxylations and Substrate Promiscuities. <i>Biochemistry</i> , 2018, 57, 5005-5013.	1.2	5

#	ARTICLE	IF	CITATIONS
55	Huanglongmycin A-C, Cytotoxic Polyketides Biosynthesized by a Putative Type II Polyketide Synthase From <i>Streptomyces</i> sp. CB09001. <i>Frontiers in Chemistry</i> , 2018, 6, 254.	1.8	28
56	Activities of recombinant human bleomycin hydrolase on bleomycins and engineered analogues revealing new opportunities to overcome bleomycin-induced pulmonary toxicity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2670-2674.	1.0	10
57	Natural separation of the acyl-CoA ligase reaction results in a non-adenylating enzyme. <i>Nature Chemical Biology</i> , 2018, 14, 730-737.	3.9	21
58	The discovery and development of microbial bleomycin analogues. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6791-6798.	1.7	17
59	Biosynthesis of thiocarboxylic acid-containing natural products. <i>Nature Communications</i> , 2018, 9, 2362.	5.8	26
60	In vivo instability of platensimycin and platencin: Synthesis and biological evaluation of urea- and carbamate-platensimycin. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1990-1996.	1.4	19
61	Competition and co-regulation of spirotoamide and tautomycetin biosynthesis in <i>Streptomyces griseochromogenes</i> , and isolation and structural elucidation of spirotoamide C and D. <i>Journal of Antibiotics</i> , 2017, 70, 710-714.	1.0	2
62	Bleomycin analogues preferentially cleave at the transcription start sites of actively transcribed genes in human cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 85, 56-65.	1.2	12
63	Genome Mining of <i>Streptomyces mobaraensis</i> DSM40847 as a Bleomycin Producer Providing a Biotechnology Platform To Engineer Designer Bleomycin Analogues. <i>Organic Letters</i> , 2017, 19, 1386-1389.	2.4	19
64	Nutritional control of antibiotic production by <i>Streptomyces platensis</i> MA7327: importance of l-aspartic acid. <i>Journal of Antibiotics</i> , 2017, 70, 828-831.	1.0	6
65	A Long-Range Acting Dehydratase Domain as the Missing Link for C17-Dehydration in Iso-Migrastatin Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7247-7251.	7.2	15
66	A Long-Range Acting Dehydratase Domain as the Missing Link for C17-Dehydration in Iso-Migrastatin Biosynthesis. <i>Angewandte Chemie</i> , 2017, 129, 7353-7357.	1.6	7
67	A facile semi-synthetic approach towards halogen-substituted aminobenzoic acid analogues of platensimycin. <i>Tetrahedron</i> , 2017, 73, 771-775.	1.0	11
68	Genome Mining of <i>Micromonospora yangpuensis</i> DSM 45577 as a Producer of an Anthraquinone-Fused Eneidyne. <i>Organic Letters</i> , 2017, 19, 6192-6195.	2.4	55
69	Crystal Structure of Thioesterase SgcE10 Supporting Common Polyene Intermediates in 9- and 10-Membered Eneidyne Core Biosynthesis. <i>ACS Omega</i> , 2017, 2, 5159-5169.	1.6	10
70	Cytochromes P450 for natural product biosynthesis in <i>Streptomyces</i> : sequence, structure, and function. <i>Natural Product Reports</i> , 2017, 34, 1141-1172.	5.2	147
71	Discovery of the leinamycin family of natural products by mining actinobacterial genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E11131-E11140.	3.3	84
72	Germicidins H-J from <i>Streptomyces</i> sp. CB00361. <i>Journal of Antibiotics</i> , 2017, 70, 200-203.	1.0	11

#	ARTICLE	IF	CITATIONS
73	New isofuranonaphthoquinones and isoindolequinones from <i>Streptomyces</i> sp. CB01883. <i>Journal of Antibiotics</i> , 2017, 70, 414-422.	1.0	7
74	Platensimycin and platencin: Inspirations for chemistry, biology, enzymology, and medicine. <i>Biochemical Pharmacology</i> , 2017, 133, 139-151.	2.0	42
75	Biosynthetic Origin of the Ether Ring in Platensimycin. <i>Journal of the American Chemical Society</i> , 2016, 138, 16711-16721.	6.6	37
76	Strain Prioritization and Genome Mining for Eneidyne Natural Products. <i>MBio</i> , 2016, 7, .	1.8	89
77	Titer improvement and pilot-scale production of platensimycin from <i>Streptomyces platensis</i> SB12026. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1027-1035.	1.4	25
78	Antibacterial sulfur-containing platensimycin and platencin congeners from <i>Streptomyces platensis</i> SB12029. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 6348-6353.	1.4	25
79	A Mutasynthetic Library of Platensimycin and Platencin Analogues. <i>Organic Letters</i> , 2016, 18, 4606-4609.	2.4	16
80	Zorbamycin has a different DNA sequence selectivity compared with bleomycin and analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 6094-6101.	1.4	7
81	Characterization of LnmO as a pathway-specific Crp/Fnr-type positive regulator for leinamycin biosynthesis in <i>Streptomyces atroolivaceus</i> and its application for titer improvement. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 10555-10562.	1.7	11
82	Structure of the <i>ent</i> -Copalyl Diphosphate Synthase PtmT2 from <i>Streptomyces platensis</i> CB00739, a Bacterial Type II Diterpene Synthase. <i>Journal of the American Chemical Society</i> , 2016, 138, 10905-10915.	6.6	50
83	Crystal Structures of SgcE6 and SgcC, the Two-Component Monooxygenase That Catalyzes Hydroxylation of a Carrier Protein-Tethered Substrate during the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027 in <i>Streptomyces globisporus</i> . <i>Biochemistry</i> , 2016, 55, 5142-5154.	1.2	18
84	Characterization of the Ketosynthase and Acyl Carrier Protein Domains at the LnmI Nonribosomal Peptide Synthetase–Polyketide Synthase Interface for Leinamycin Biosynthesis. <i>Organic Letters</i> , 2016, 18, 4288-4291.	2.4	13
85	Crystal structure of SgcJ, an NTF2-like superfamily protein involved in biosynthesis of the nine-membered enediyne antitumor antibiotic C-1027. <i>Journal of Antibiotics</i> , 2016, 69, 731-740.	1.0	10
86	Engineered production of cancer targeting peptide (CTP)-containing C-1027 in <i>Streptomyces globisporus</i> and biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3887-3892.	1.4	7
87	Synthetic biology to access and expand nature's chemical diversity. <i>Nature Reviews Microbiology</i> , 2016, 14, 135-149.	13.6	393
88	Overproduction of lactimidomycin by cross-overexpression of genes encoding <i>Streptomyces</i> antibiotic regulatory proteins. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 2267-2277.	1.7	14
89	Genome neighborhood network reveals insights into enediyne biosynthesis and facilitates prediction and prioritization for discovery. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 261-276.	1.4	55
90	A New Golden Age of Natural Products Drug Discovery. <i>Cell</i> , 2015, 163, 1297-1300.	13.5	507

#	ARTICLE	IF	CITATIONS
91	Crystal Structure of the Zorbamycin-Binding Protein ZbmA, the Primary Self-Resistance Element in <i>Streptomyces flavoviridis</i> ATCC21892. <i>Biochemistry</i> , 2015, 54, 6842-6851.	1.2	9
92	Adipostatins A-D from <i>Streptomyces</i> sp. 4875 inhibiting <i>Brugia malayi</i> asparaginyl-tRNA synthetase and killing adult <i>Brugia malayi</i> parasites. <i>Journal of Antibiotics</i> , 2015, 68, 540-542.	1.0	13
93	Leinamycin E1 acting as an anticancer prodrug activated by reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8278-8283.	3.3	45
94	C-S bond cleavage by a polyketide synthase domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10359-10364.	3.3	39
95	Synthesis and evaluation of 8,4-dideshydroxy-leinamycin revealing new insights into the structure-activity relationship of the anticancer natural product leinamycin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4899-4902.	1.0	11
96	A genetically amenable platensimycin- and platencin-overproducer as a platform for biosynthetic explorations: a showcase of PtmO4, a long-chain acyl-CoA dehydrogenase. <i>Molecular BioSystems</i> , 2015, 11, 2717-2726.	2.9	48
97	Deciphering Poxvirus Gene Expression by RNA Sequencing and Ribosome Profiling. <i>Journal of Virology</i> , 2015, 89, 6874-6886.	1.5	62
98	Structural and evolutionary relationships of α -AT-less type I polyketide synthase ketosynthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12693-12698.	3.3	55
99	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	3.9	715
100	Angucyclines and Angucyclinones from <i>Streptomyces</i> sp. CB01913 Featuring C-Ring Cleavage and Expansion. <i>Journal of Natural Products</i> , 2015, 78, 2471-2480.	1.5	41
101	Enediynes: Exploration of microbial genomics to discover new anticancer drug leads. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 9-15.	1.0	55
102	Quantitative profiling of initiating ribosomes in vivo. <i>Nature Methods</i> , 2015, 12, 147-153.	9.0	222
103	The radiomimetic enediyne, 20-deschloro-C-1027 induces inter-strand DNA crosslinks in hypoxic cells and overcomes cytotoxic radioresistance. <i>DNA Repair</i> , 2014, 21, 165-170.	1.3	6
104	Comparative Characterization of the Lactimidomycin and iso-Migrastatin Biosynthetic Machineries Revealing Unusual Features for Acyltransferase-less Type I Polyketide Synthases and Providing an Opportunity To Engineer New Analogues. <i>Biochemistry</i> , 2014, 53, 7854-7865.	1.2	22
105	Strain Prioritization for Natural Product Discovery by a High-Throughput Real-Time PCR Method. <i>Journal of Natural Products</i> , 2014, 77, 2296-2303.	1.5	75
106	Mechanisms of Self-Resistance in the Platensimycin- and Platencin-Producing <i>Streptomyces platensis</i> MA7327 and MA7339 Strains. <i>Chemistry and Biology</i> , 2014, 21, 389-397.	6.2	65
107	Biosynthetic Potential-Based Strain Prioritization for Natural Product Discovery: A Showcase for Diterpenoid-Producing Actinomycetes. <i>Journal of Natural Products</i> , 2014, 77, 377-387.	1.5	45
108	Cycloheximide and Actiphenol Production in <i>Streptomyces</i> sp. YIM56141 Governed by Single Biosynthetic Machinery Featuring an Acyltransferase-less Type I Polyketide Synthase. <i>Organic Letters</i> , 2014, 16, 3072-3075.	2.4	54

#	ARTICLE	IF	CITATIONS
109	Medium optimization of <i>Streptomyces</i> sp. 17944 for tirandamycin B production and isolation and structural elucidation of tirandamycins H, I and J. <i>Journal of Antibiotics</i> , 2014, 67, 127-132.	1.0	30
110	Cloning and sequencing of the kedarcidin biosynthetic gene cluster from <i>Streptoalloteichus</i> sp. ATCC 53650 revealing new insights into biosynthesis of the enediyne family of antitumor antibiotics. <i>Molecular BioSystems</i> , 2013, 9, 478.	2.9	39
111	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. <i>Natural Product Reports</i> , 2013, 30, 108-160.	5.2	1,692
112	Post-Polyketide Synthase Steps in Iso-migrastatin Biosynthesis, Featuring Tailoring Enzymes with Broad Substrate Specificity. <i>Journal of the American Chemical Society</i> , 2013, 135, 2489-2492.	6.6	16
113	Isolation and structural elucidation of glucoside congeners of platencin from <i>Streptomyces platensis</i> SB12600. <i>Journal of Antibiotics</i> , 2013, 66, 291-294.	1.0	13
114	Structure of the Bifunctional Acyltransferase/Decarboxylase LnmK from the Leinamycin Biosynthetic Pathway Revealing Novel Activity for a Double-Hot-Dog Fold. <i>Biochemistry</i> , 2013, 52, 902-911.	1.2	31
115	A new member of the 4-methylideneimidazole-5-one-containing aminomutase family from the enediyne kedarcidin biosynthetic pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8069-8074.	3.3	16
116	Global mapping of translation initiation sites in mammalian cells at single-nucleotide resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2424-32.	3.3	534
117	Decoding Human Cytomegalovirus. <i>Science</i> , 2012, 338, 1088-1093.	6.0	546
118	Expression of the Platencin Biosynthetic Gene Cluster in Heterologous Hosts Yielding New Platencin Congeners. <i>Journal of Natural Products</i> , 2012, 75, 2158-2167.	1.5	56
119	A Designer Bleomycin with Significantly Improved DNA Cleavage Activity. <i>Journal of the American Chemical Society</i> , 2012, 134, 13501-13509.	6.6	37
120	Specificity of the Ester Bond Forming Condensation Enzyme SgcC5 in C-1027 Biosynthesis. <i>Organic Letters</i> , 2012, 14, 2300-2303.	2.4	17
121	Functional Characterization of <i>ttnI</i> Completing the Tailoring Steps for Tautomycetin Biosynthesis in <i>Streptomyces griseochromogenes</i> . <i>Organic Letters</i> , 2012, 14, 1302-1305.	2.4	9
122	New WS9326A Congeners from <i>Streptomyces</i> sp. 9078 Inhibiting <i>Brugia malayi</i> Asparaginyl-tRNA Synthetase. <i>Organic Letters</i> , 2012, 14, 4946-4949.	2.4	51
123	Bacterial diterpene synthases: new opportunities for mechanistic enzymology and engineered biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 132-141.	2.8	83
124	Tirandamycins from <i>Streptomyces</i> sp. 17944 Inhibiting the Parasite <i>Brugia malayi</i> Asparagine tRNA Synthetase. <i>Organic Letters</i> , 2011, 13, 2034-2037.	2.4	62
125	Characterization of the <i>lnmKLM</i> Genes Unveiling Key Intermediates for $\hat{1}^2$ -Alkylation in Leinamycin Biosynthesis. <i>Organic Letters</i> , 2011, 13, 498-501.	2.4	29
126	Actinopolysporins A and C and Tubercidin as a Pdc4 Stabilizer from the Halophilic Actinomycete <i>Actinopolyspora erythraea</i> YIM 90600. <i>Journal of Natural Products</i> , 2011, 74, 1990-1995.	1.5	44

#	ARTICLE	IF	CITATIONS
127	Comparative Analysis of the Biosynthetic Gene Clusters and Pathways for Three Structurally Related Antitumor Antibiotics: Bleomycin, Tallysomycin, and Zorbamycin. <i>Journal of Natural Products</i> , 2011, 74, 526-536.	1.5	55
128	Improvement of the Eneidyne Antitumor Antibiotic C-1027 Production by Manipulating Its Biosynthetic Pathway Regulation in <i>Streptomyces globisporus</i> . <i>Journal of Natural Products</i> , 2011, 74, 420-424.	1.5	36
129	Titer improvement of iso-migrastatin in selected heterologous <i>Streptomyces</i> hosts and related analysis of mRNA expression by quantitative RT-PCR. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1709-1719.	1.7	22
130	SHP2 Is a Target of the Immunosuppressant Tautomycetin. <i>Chemistry and Biology</i> , 2011, 18, 101-110.	6.2	50
131	Dedicated <i>ent</i> -kaurene and <i>ent</i> -atiserene synthases for platensimycin and platencin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13498-13503.	3.3	130
132	Improvement of secondary metabolite production in <i>Streptomyces</i> by manipulating pathway regulation. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 19-25.	1.7	97
133	Iso-migrastatin titer improvement in the engineered <i>Streptomyces lividans</i> SB11002 strain by optimization of fermentation conditions. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 664-669.	1.4	6
134	Multifaceted Modes of Action for the Glutarimide-Containing Polyketides Revealed. <i>ChemBioChem</i> , 2010, 11, 1951-1954.	1.3	24
135	Manipulation of pathway regulation in <i>Streptomyces globisporus</i> for overproduction of the enediyne antitumor antibiotic C-1027. <i>Journal of Antibiotics</i> , 2010, 63, 482-485.	1.0	30
136	Inhibition of eukaryotic translation elongation by cycloheximide and lactimidomycin. <i>Nature Chemical Biology</i> , 2010, 6, 209-217.	3.9	757
137	Polyketide synthase chemistry does not direct biosynthetic divergence between 9- and 10-membered enediynes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11331-11335.	3.3	51
138	The Role of Evolution in the Discovery of New Drugs and Chemicals. <i>ACS Symposium Series</i> , 2010, , 205-232.	0.5	0
139	Functional Characterization of TtnD and TtnF, Unveiling New Insights into Tautomycetin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2010, 132, 6663-6671.	6.6	21
140	Engineering of <i>Streptomyces platensis</i> MA7339 for Overproduction of Platencin and Congeners. <i>Organic Letters</i> , 2010, 12, 1744-1747.	2.4	41
141	Eneidyne Antitumor Antibiotic Maduropeptin Biosynthesis Featuring a <i>C</i> -Methyltransferase That Acts on a CoA-Tethered Aromatic Substrate. <i>Journal of the American Chemical Society</i> , 2010, 132, 12534-12536.	6.6	22
142	Functional characterization of tlmH in <i>Streptoalloteichus hindustanus</i> E465-94 ATCC 31158 unveiling new insight into tallysomycin biosynthesis and affording a novel bleomycin analog. <i>Molecular BioSystems</i> , 2010, 6, 349-356.	2.9	15
143	C-1027, A Radiomimetic Eneidyne Anticancer Drug, Preferentially Targets Hypoxic Cells. <i>Cancer Research</i> , 2009, 69, 593-598.	0.4	32
144	A free-standing condensation enzyme catalyzing ester bond formation in C-1027 biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4183-4188.	3.3	80

#	ARTICLE	IF	CITATIONS
145	iso-Migrastatin, Migrastatin, and Dorrigocin Production in <i>Streptomyces platensis</i> NRRL 18993 Is Governed by a Single Biosynthetic Machinery Featuring an Acyltransferase-less Type I Polyketide Synthase. <i>Journal of Biological Chemistry</i> , 2009, 284, 29746-29756.	1.6	53
146	Engineered <i>Streptomyces platensis</i> Strains That Overproduce Antibiotics Platensimycin and Platencin. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 1299-1304.	1.4	92
147	Engineered production of iso-migrastatin in heterologous <i>Streptomyces</i> hosts. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 2147-2153.	1.4	50
148	Molecular Basis of Substrate Promiscuity for the SAM-Dependent O-Methyltransferase NcsB1, Involved in the Biosynthesis of the Eneidyne Antitumor Antibiotic Neocarzinostatin. <i>Biochemistry</i> , 2009, 48, 9590-9598.	1.2	25
149	Bifunctional Acyltransferase/Decarboxylase LnmK as the Missing Link for \hat{I}^2 -Alkylation in Polyketide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 6900-6901.	6.6	31
150	Characterization of the Tautomycetin Biosynthetic Gene Cluster from <i>Streptomyces griseochromogenes</i> Provides New Insight into Dialkylmaleic Anhydride Biosynthesis. <i>Journal of Natural Products</i> , 2009, 72, 450-459.	1.5	26
151	Lactimidomycin, Iso-migrastatin and Related Glutarimide-Containing 12-Membered Macrolides Are Extremely Potent Inhibitors of Cell Migration. <i>Journal of the American Chemical Society</i> , 2009, 131, 1370-1371.	6.6	58
152	The biosynthetic gene cluster of zorbamycin, a member of the bleomycin family of antitumor antibiotics, from <i>Streptomyces flavoviridis</i> ATCC 21892. <i>Molecular BioSystems</i> , 2009, 5, 77-90.	2.9	51
153	Design and characterization of mechanism-based inhibitors for the tyrosine aminomutase SgTAM. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3099-3102.	1.0	29
154	Evaluation of new migrastatin and dorrigocin congeners unveils cell migration inhibitors with dramatically improved potency. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5951-5954.	1.0	28
155	Characterization of the Two-Component, FAD-Dependent Monooxygenase SgcC That Requires Carrier Protein-Tethered Substrates for the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027. <i>Journal of the American Chemical Society</i> , 2008, 130, 6616-6623.	6.6	37
156	Regiospecific O-Methylation of Naphthoic Acids Catalyzed by NcsB1, an O-Methyltransferase Involved in the Biosynthesis of the Eneidyne Antitumor Antibiotic Neocarzinostatin. <i>Journal of Biological Chemistry</i> , 2008, 283, 14694-14702.	1.6	19
157	In Vivo Manipulation of the Bleomycin Biosynthetic Gene Cluster in <i>Streptomyces verticillus</i> ATCC15003 Revealing New Insights into Its Biosynthetic Pathway. <i>Journal of Biological Chemistry</i> , 2008, 283, 28236-28245.	1.6	36
158	A phosphopantetheinylating polyketide synthase producing a linear polyene to initiate enediyne antitumor antibiotic biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1460-1465.	3.3	87
159	Identification and Utility of FdmR1 as a <i>Streptomyces</i> Antibiotic Regulatory Protein Activator for Fredericamycin Production in <i>Streptomyces griseus</i> ATCC 49344 and Heterologous Hosts. <i>Journal of Bacteriology</i> , 2008, 190, 5587-5596.	1.0	80
160	Biosynthesis of Eneidyne Antitumor Antibiotics. <i>Current Topics in Medicinal Chemistry</i> , 2008, 8, 448-459.	1.0	91
161	Designer enediynes generate DNA breaks, interstrand cross-links, or both, with concomitant changes in the regulation of DNA damage responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17632-17637.	3.3	52
162	Single Chemical Modifications of the C-1027 Eneidyne Core, a Radiomimetic Antitumor Drug, Affect Both Drug Potency and the Role of Ataxia-Telangiectasia Mutated in Cellular Responses to DNA Double-Strand Breaks. <i>Cancer Research</i> , 2007, 67, 773-781.	0.4	54

#	ARTICLE	IF	CITATIONS
163	Chain Initiation in the Leinamycin-producing Hybrid Nonribosomal Peptide/Polyketide Synthetase from <i>Streptomyces atroolivaceus</i> S-140. <i>Journal of Biological Chemistry</i> , 2007, 282, 20273-20282.	1.6	49
164	The Structure of l-Tyrosine 2,3-Aminomutase from the C-1027 Eneidyne Antitumor Antibiotic Biosynthetic Pathway. <i>Biochemistry</i> , 2007, 46, 7205-7214.	1.2	71
165	The Mechanism of MIO-Based Aminomutases in β^2 -Amino Acid Biosynthesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 15744-15745.	6.6	70
166	Characterization of the Maduropeptin Biosynthetic Gene Cluster from <i>Actinomadura madurae</i> ATCC 39144 Supporting a Unifying Paradigm for Eneidyne Biosynthesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 13082-13094.	6.6	134
167	Regiospecific Chlorination of β^2 -Tyrosyl-Carrier Protein Catalyzed by SgcC3 in the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027. <i>Journal of the American Chemical Society</i> , 2007, 129, 12432-12438.	6.6	87
168	Glycopeptide Antitumor Antibiotic Zorbamycin from <i>Streptomyces flavoviridis</i> ATCC 21892: A Strain Improvement and Structure Elucidation. <i>Journal of Natural Products</i> , 2007, 70, 402-406.	1.5	38
169	Characterization of NcsB2 as a Promiscuous Naphthoic Acid/Coenzyme A Ligase Integral to the Biosynthesis of the Eneidyne Antitumor Antibiotic Neocarzinostatin. <i>Journal of the American Chemical Society</i> , 2007, 129, 7728-7729.	6.6	27
170	Expression of biosynthetic gene clusters in heterologous hosts for natural product production and combinatorial biosynthesis. <i>Expert Opinion on Drug Discovery</i> , 2006, 1, 409-437.	2.5	54
171	Progress in combinatorial biosynthesis for drug discovery. <i>Drug Discovery Today: Technologies</i> , 2006, 3, 285-292.	4.0	14
172	Polyketide Chain Skipping Mechanism in the Biosynthesis of the Hybrid Nonribosomal Peptide-Polyketide Antitumor Antibiotic Leinamycin in <i>Streptomyces atroolivaceus</i> S-140. <i>Journal of Natural Products</i> , 2006, 69, 387-393.	1.5	46
173	Thermolysis of Isomigrastatin and Its Congeners via [3,3]-Sigmatropic Rearrangement: A New Route to the Synthesis of Migrastatin and Its Analogues. <i>Organic Letters</i> , 2006, 8, 5865-5868.	2.4	27
174	Substrate Specificity of the Adenylation Enzyme SgcC1 Involved in the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027. <i>Journal of Biological Chemistry</i> , 2006, 281, 29633-29640.	1.6	29
175	The Neocarzinostatin Biosynthetic Gene Cluster from <i>Streptomyces carzinostaticus</i> ATCC 15944 Involving Two Iterative Type I Polyketide Synthases. <i>Chemistry and Biology</i> , 2005, 12, 293-302.	6.2	125
176	Cloning, Sequencing, Analysis, and Heterologous Expression of the Fredericamycin Biosynthetic Gene Cluster from <i>Streptomyces griseus</i> . <i>Journal of the American Chemical Society</i> , 2005, 127, 16442-16452.	6.6	97
177	Iso-Migrastatin Congeners from <i>Streptomyces platensis</i> and Generation of a Glutarimide Polyketide Library Featuring the Dorrigoicin, Lactimidomycin, Migrastatin, and NK30424 Scaffolds. <i>Journal of the American Chemical Society</i> , 2005, 127, 11930-11931.	6.6	40
178	Biosynthesis of the β^2 -Amino Acid Moiety of the Eneidyne Antitumor Antibiotic C-1027 Featuring β^2 -Amino Acyl-S-carrier Protein Intermediates. <i>Journal of the American Chemical Society</i> , 2005, 127, 11594-11595.	6.6	49
179	Migrastatin and Dorrigoicins Are Shunt Metabolites of Iso-Migrastatin. <i>Journal of the American Chemical Society</i> , 2005, 127, 1622-1623.	6.6	52
180	Antitumor Antibiotics: Bleomycin, Eneidyne, and Mitomycin. <i>Chemical Reviews</i> , 2005, 105, 739-758.	23.0	502

#	ARTICLE	IF	CITATIONS
181	Accessing Natural Products by Combinatorial Biosynthesis. <i>Science Signaling</i> , 2004, 2004, pe14-pe14.	1.6	12
182	Conversion of (2S)-Arginine to (2S,3R)-Capreomycin by VioC and VioD from the Viomycin Biosynthetic Pathway of <i>Streptomyces</i> sp. Strain ATCC11861. <i>ChemBioChem</i> , 2004, 5, 1281-1285.	1.3	71
183	Leinamycin Biosynthesis Revealing Unprecedented Architectural Complexity for a Hybrid Polyketide Synthase and Nonribosomal Peptide Synthetase. <i>Chemistry and Biology</i> , 2004, 11, 33-45.	6.2	154
184	Polyketide biosynthesis beyond the type I, II and III polyketide synthase paradigms. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 285-295.	2.8	503
185	Kinetic Analysis of the 4-Methylideneimidazole-5-one-Containing Tyrosine Aminomutase in Eneidyne Antitumor Antibiotic C-1027 Biosynthesis. <i>Biochemistry</i> , 2003, 42, 12708-12718.	1.2	75
186	Type I polyketide synthase requiring a discrete acyltransferase for polyketide biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3149-3154.	3.3	246
187	Rapid PCR amplification of minimal enediyne polyketide synthase cassettes leads to a predictive familial classification model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11959-11963.	3.3	88
188	A Novel 4-Methylideneimidazole-5-one-Containing Tyrosine Aminomutase in Eneidyne Antitumor Antibiotic C-1027 Biosynthesis. <i>Journal of the American Chemical Society</i> , 2003, 125, 6062-6063.	6.6	111
189	Eneidyne Natural Products: Biosynthesis and Prospect Towards Engineering Novel Antitumor Agents. <i>Current Medicinal Chemistry</i> , 2003, 10, 2317-2325.	1.2	76
190	Identification and Localization of the Gene Cluster Encoding Biosynthesis of the Antitumor Macrolactam Leinamycin in <i>Streptomyces atroolivaceus</i> S-140. <i>Journal of Bacteriology</i> , 2002, 184, 7013-7024.	1.0	86
191	Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027. <i>Science</i> , 2002, 297, 1170-1173.	6.0	278
192	Cloning and Characterization of the Bleomycin Biosynthetic Gene Cluster from <i>Streptomyces verticillus</i> ATCC15003. <i>Journal of Natural Products</i> , 2002, 65, 422-431.	1.5	81
193	Macrotetrolide biosynthesis: A novel type II polyketide synthase. <i>Chemical Record</i> , 2002, 2, 389-396.	2.9	20
194	Cloning, Sequencing, and Heterologous Expression of the <i>elmGHJ</i> Genes Involved in the Biosynthesis of the Polyketide Antibiotic Elloramycin from <i>Streptomyces olivaceus</i> TA42353. <i>Journal of Natural Products</i> , 2001, 64, 444-449.	1.5	30
195	The biosynthetic gene cluster for the antitumor drug bleomycin from <i>Streptomyces verticillus</i> ATCC15003 supporting functional interactions between nonribosomal peptide synthetases and a polyketide synthase. <i>Chemistry and Biology</i> , 2000, 7, 623-642.	6.2	253
196	An oxidation domain in the <i>BlmIII</i> non-ribosomal peptide synthetase probably catalyzing thiazole formation in the biosynthesis of the anti-tumor drug bleomycin in <i>Streptomyces verticillus</i> ATCC15003. <i>FEMS Microbiology Letters</i> , 2000, 189, 171-175.	0.7	56
197	Genes for Production of the Eneidyne Antitumor Antibiotic C-1027 in <i>Streptomyces globisporus</i> Are Clustered with the <i>cagA</i> Gene That Encodes the C-1027 Apoprotein. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 382-392.	1.4	86
198	Genetic Localization and Molecular Characterization of the <i>nonS</i> Gene Required for Macrotetrolide Biosynthesis in <i>Streptomyces griseus</i> DSM40695. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 1809-1817.	1.4	49

#	ARTICLE	IF	CITATIONS
199	Triple Hydroxylation of Tetracenomycin A2 to Tetracenomycin C Involving Two Molecules of O ₂ and One Molecule of H ₂ O. <i>Organic Letters</i> , 2000, 2, 3225-3227.	2.4	32
200	Identification and characterization of a type II peptidyl carrier protein from the bleomycin producer <i>Streptomyces verticillus</i> ATCC 15003. <i>Chemistry and Biology</i> , 1999, 6, 507-517.	6.2	42