Ben Shen

List of Publications by Year
in descending order

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200	13,885	36299 51	24978 109
papers	citations	h-index	g-index

234	234	234	13614
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MIO-containing aminomutases for Î±- to Î²-amino acids. Trends in Chemistry, 2022, 4, 91-92.	8.5	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.	3.4	5
3	Functional Characterization of Cytochrome P450 Hydroxylase YpmL in Yangpumicin A Biosynthesis and Its Application for Anthraquinone-Fused Enediyne Structural Diversification. Organic Letters, 2022, 24, 1219-1223.	4.6	4
4	PtmC Catalyzes the Final Step of Thioplatensimycin, Thioplatencin, and Thioplatensilin Biosynthesis and Expands the Scope of Arylamine N-Acetyltransferases. ACS Chemical Biology, 2021, 16, 96-105.	3.4	6
5	Challenges and opportunities to develop enediyne natural products as payloads for antibody-drug conjugates. Antibody Therapeutics, 2021, 4, 1-15.	1.9	24
6	Cryptic Sulfur Incorporation in Thioangucycline Biosynthesis. Angewandte Chemie - International Edition, 2021, 60, 7140-7147.	13.8	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.	2.8	8
8	Cryptic Sulfur Incorporation in Thioangucycline Biosynthesis. Angewandte Chemie, 2021, 133, 7216-7223.	2.0	1
9	Submerged fermentation of Streptomyces uncialis providing a biotechnology platform for uncialamycin biosynthesis, engineering, and production. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	3.0	3
10	Discovery of ammosesters by mining the Streptomyces uncialis DCA2648 genome revealing new insight into ammosamide biosynthesis. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	3.0	7
11	Introduction to the special issue: â€œNatural Product Discovery and Development in the Genomic Era: 2021â€. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	3.0	2
12	Cytochrome P450 Hydroxylase TnmL Catalyzing Sequential Hydroxylation with an Additional Proofreading Activity in Tiancimycin Biosynthesis. ACS Chemical Biology, 2021, 16, 1172-1178.	3.4	9
13	Thiocysteine lyases as polyketide synthase domains installing hydropersulfide into natural products and a hydropersulfide methyltransferase. Nature Communications, 2021, 12, 5672.	12.8	10
14	Biosynthesis of Enediyne Natural Products. , 2020, , 365-414.		14
15	Targeting Bacterial Genomes for Natural Product Discovery. Trends in Pharmacological Sciences, 2020, 41, 13-26.	8.7	66
16	Hybrid Peptideâ€“Polyketide Natural Product Biosynthesis. , 2020, , 284-335.		3
17	Characterization of TnmH as an O-Methyltransferase Revealing Insights into Tiancimycin Biosynthesis and Enabling a Biocatalytic Strategy To Prepare Antibodyâ€“Tiancimycin Conjugates. Journal of Medicinal Chemistry, 2020, 63, 8432-8441.	6.4	18
18	Divergent synthesis of complex diterpenes through a hybrid oxidative approach. Science, 2020, 369, 799-806.	12.6	89

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19	The LnmK Bifunctional Acyltransferase/Decarboxylase Specifying (2R)-Methylmalonyl-CoA and Employing Substrate-Assisted Catalysis for Polyketide Biosynthesis. Biochemistry, 2020, 59, 4143-4147.	2.5	5
20	Platensimycin-Encapsulated Liposomes or Micelles as Biosafe Nanoantibiotics Exhibited Strong Antibacterial Activities against Methicillin-Resistant Staphylococcus aureus Infection in Mice. Molecular Pharmaceutics, 2020, 17, 2451-2462.	4.6	19
21	The Isolation of Pyrroloformamide Congeners and Characterization of Their Biosynthetic Gene Cluster. Journal of Natural Products, 2020, 83, 202-209.	3.0	5
22	Platensimycin-Encapsulated Poly(lactic-co-glycolic acid) and Poly(amidoamine) Dendrimers Nanoparticles with Enhanced Anti-Staphylococcal Activity in Vivo. Bioconjugate Chemistry, 2020, 31, 1425-1437.	3.6	22
23	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. Natural Product Reports, 2019, 36, 35-107.	10.3	92
24	A 3â€hydroxyâ€3â€methylglutarylâ€CoA synthaseâ€based probe for the discovery of the acyltransferaseâ€less type I polyketide synthases. Environmental Microbiology, 2019, 21, 4270-4282.	3.8	1
25	Characterization and Crystal Structure of a Nonheme Diiron Monooxygenase Involved in Platensimycin and Platencin Biosynthesis. Journal of the American Chemical Society, 2019, 141, 12406-12412.	13.7	23
26	Leveraging a large microbial strain collection for natural product discovery. Journal of Biological Chemistry, 2019, 294, 16567-16576.	3.4	26
27	Yangpumicins F and G, Enediyne Congeners from Micromonospora yangpuensis DSM 45577. Journal of Natural Products, 2019, 82, 2483-2488.	3.0	23
28	Evaluation of Platensimycin and Platensimycin-Inspired Thioether Analogues against Methicillin-Resistant Staphylococcus aureus in Topical and Systemic Infection Mouse Models. Molecular Pharmaceutics, 2019, 16, 3065-3071.	4.6	20
29	Late-Stage Functionalization of Platensimycin Leading to Multiple Analogues with Improved Antibacterial Activity in Vitro and in Vivo. Journal of Medicinal Chemistry, 2019, 62, 6682-6693.	6.4	14
30	Discovery of Kirromycins with Anti-Wolbachia Activity from Streptomyces sp. CB00686. ACS Chemical Biology, 2019, 14, 1174-1182.	3.4	7
31	Cryptic and Stereospecific Hydroxylation, Oxidation, and Reduction in Platensimycin and Platencin Biosynthesis. Journal of the American Chemical Society, 2019, 141, 4043-4050.	13.7	25
32	Stereoselective functionalization of platensimycin and platencin by sulfa-Michael/aldol reactions. Organic and Biomolecular Chemistry, 2019, 17, 4261-4272.	2.8	5
33	Challenges and opportunities for natural product discovery, production, and engineering in native producers versus heterologous hosts. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 433-444.	3.0	24
34	Herbicidins from Streptomyces sp. CB01388 Showing Anti-Cryptosporidium Activity. Journal of Natural Products, 2018, 81, 791-797.	3.0	12
35	The semi-synthesis, biological evaluation and docking analysis of the oxime, hydrazine and hydrazide derivatives of platensimycin. MedChemComm, 2018, 9, 789-794.	3.4	12
36	Ribosome engineering and fermentation optimization leads to overproduction of tiancimycin A, a new enediyne natural product from Streptomyces sp. CB03234. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 141-151.	3.0	29

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37	Biomimetic Stereoselective Sulfa-Michael Addition Leads to Platensimycin and Platencin Sulfur Analogues against Methicillin-Resistant Staphylococcus aureus. Journal of Natural Products, 2018, 81, 316-322.	3.0	17
38	PokMT1 from the Polyketomycin Biosynthetic Machinery of Streptomyces diastatochromogenes TÃ¼6028 Belongs to the Emerging Family of C-Methyltransferases That Act on CoA-Activated Aromatic Substrates. Biochemistry, 2018, 57, 1003-1011.	2.5	8
39	Discovery of Alternative Producers of the Enediyne Antitumor Antibiotic C-1027 with High Titers. Journal of Natural Products, 2018, 81, 594-599.	3.0	13
40	Strain improvement by combined UV mutagenesis and ribosome engineering and subsequent fermentation optimization for enhanced 6â€²-deoxy-bleomycin Z production. Applied Microbiology and Biotechnology, 2018, 102, 1651-1661.	3.6	25
41	Structural Insights into the Free-Standing Condensation Enzyme SgcC5 Catalyzing Ester-Bond Formation in the Biosynthesis of the Enediyne Antitumor Antibiotic C-1027. Biochemistry, 2018, 57, 3278-3288.	2.5	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. Journal of Antibiotics, 2018, 71, 97-103.	2.0	7
43	Oxidative activation of leinamycin E1 triggers alkylation of guanine residues in double-stranded DNA. Chemical Communications, 2018, 54, 256-259.	4.1	5
44	Semisynthesis and Biological Evaluation of Platensimycin Analogues with Varying Aminobenzoic Acids. ChemistrySelect, 2018, 3, 12625-12629.	1.5	6
45	Semisynthesis of Platensimycin Derivatives with Antibiotic Activities in Mice via Suzukiâ€“Miyaura Cross-Coupling Reactions. Journal of Medicinal Chemistry, 2018, 61, 11341-11348.	6.4	14
46	Discovery and Characterization of 1-Aminocyclopropane-1-carboxylic Acid Synthase of Bacterial Origin. Journal of the American Chemical Society, 2018, 140, 16957-16961.	13.7	24
47	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. ACS Central Science, 2018, 4, 1727-1741.	11.3	32
48	Comparative Studies of the Biosynthetic Gene Clusters for Anthraquinone-Fused Enediynes Shedding Light into the Tailoring Steps of Tiancimycin Biosynthesis. Organic Letters, 2018, 20, 5918-5921.	4.6	34
49	Cytochrome P450-Catalyzed Hydroxylation Initiating Ether Formation in Platensimycin Biosynthesis. Journal of the American Chemical Society, 2018, 140, 12349-12353.	13.7	31
50	Biochemical and Structural Characterization of TtnD, a Prenylated FMN-Dependent Decarboxylase from the Tautomycetin Biosynthetic Pathway. ACS Chemical Biology, 2018, 13, 2728-2738.	3.4	19
51	Discovery of the Tiancilactone Antibiotics by Genome Mining of Atypical Bacterial Typeâ€…II Diterpene Synthases. ChemBioChem, 2018, 19, 1727-1733.	2.6	18
52	Resistance to Enediyne Antitumor Antibiotics by Sequestration. Cell Chemical Biology, 2018, 25, 1075-1085.e4.	5.2	21
53	The genome-wide sequence specificity of DNA cleavage by bleomycin analogues in human cells. Bioorganic and Medicinal Chemistry, 2018, 26, 4168-4178.	3.0	5
54	P450-Catalyzed Tailoring Steps in Leinamycin Biosynthesis Featuring Regio- and Stereoselective Hydroxylations and Substrate Promiscuities. Biochemistry, 2018, 57, 5005-5013.	2.5	5

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55	Huanglongmycin A-C, Cytotoxic Polyketides Biosynthesized by a Putative Type II Polyketide Synthase From Streptomyces sp. CB09001. Frontiers in Chemistry, 2018, 6, 254.	3.6	28
56	Activities of recombinant human bleomycin hydrolase on bleomycins and engineered analogues revealing new opportunities to overcome bleomycin-induced pulmonary toxicity. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2670-2674.	2.2	10
57	Natural separation of the acyl-CoA ligase reaction results in a non-adenylating enzyme. Nature Chemical Biology, 2018, 14, 730-737.	8.0	21
58	The discovery and development of microbial bleomycin analogues. Applied Microbiology and Biotechnology, 2018, 102, 6791-6798.	3.6	17
59	Biosynthesis of thiocarboxylic acid-containing natural products. Nature Communications, 2018, 9, 2362.	12.8	26
60	In vivo instability of platensimycin and platencin: Synthesis and biological evaluation of urea- and carbamate-platensimycin. Bioorganic and Medicinal Chemistry, 2017, 25, 1990-1996.	3.0	19
61	Competition and co-regulation of spirotoamide and tautomycetin biosynthesis in Streptomyces griseochromogenes, and isolation and structural elucidation of spirotoamide C and D. Journal of Antibiotics, 2017, 70, 710-714.	2.0	2
62	Bleomycin analogues preferentially cleave at the transcription start sites of actively transcribed genes in human cells. International Journal of Biochemistry and Cell Biology, 2017, 85, 56-65.	2.8	12
63	Genome Mining of Streptomyces mobaraensis DSM40847 as a Bleomycin Producer Providing a Biotechnology Platform To Engineer Designer Bleomycin Analogues. Organic Letters, 2017, 19, 1386-1389.	4.6	19
64	Nutritional control of antibiotic production by Streptomyces platensis MA7327: importance of l-aspartic acid. Journal of Antibiotics, 2017, 70, 828-831.	2.0	6
65	A Longâ€Range Acting Dehydratase Domain as the Missing Link for C17â€Dehydration in Isoâ€Migrastatin Biosynthesis. Angewandte Chemie - International Edition, 2017, 56, 7247-7251.	13.8	15
66	A Longâ€Range Acting Dehydratase Domain as the Missing Link for C17â€Dehydration in Isoâ€Migrastatin Biosynthesis. Angewandte Chemie, 2017, 129, 7353-7357.	2.0	7
67	A facile semi-synthetic approach towards halogen-substituted aminobenzoic acid analogues of platensimycin. Tetrahedron, 2017, 73, 771-775.	1.9	11
68	Genome Mining of Micromonospora yangpuensis DSM 45577 as a Producer of an Anthraquinone-Fused Enediyne. Organic Letters, 2017, 19, 6192-6195.	4.6	55
69	Crystal Structure of Thioesterase SgcE10 Supporting Common Polyene Intermediates in 9- and 10-Membered Enediyne Core Biosynthesis. ACS Omega, 2017, 2, 5159-5169.	3.5	10
70	Cytochromes P450 for natural product biosynthesis in Streptomyces: sequence, structure, and function. Natural Product Reports, 2017, 34, 1141-1172.	10.3	147
71	Discovery of the leinamycin family of natural products by mining actinobacterial genomes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E11131-E11140.	7.1	84
72	Germicidins Hâ€“J from Streptomyces sp. CB00361. Journal of Antibiotics, 2017, 70, 200-203.	2.0	11

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73	New isofuranonaphthoquinones and isoindolequinones from Streptomyces sp. CB01883. Journal of Antibiotics, 2017, 70, 414-422.	2.0	7
74	Platensimycin and platencin: Inspirations for chemistry, biology, enzymology, and medicine. Biochemical Pharmacology, 2017, 133, 139-151.	4.4	42
75	Biosynthetic Origin of the Ether Ring in Platensimycin. Journal of the American Chemical Society, 2016, 138, 16711-16721.	13.7	37
76	Strain Prioritization and Genome Mining for Enediyne Natural Products. MBio, 2016, 7, .	4.1	89
77	Titer improvement and pilot-scale production of platensimycin from Streptomyces platensis SB12026. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1027-1035.	3.0	25
78	Antibacterial sulfur-containing platensimycin and platencin congeners from Streptomyces platensis SB12029. Bioorganic and Medicinal Chemistry, 2016, 24, 6348-6353.	3.0	25
79	A Mutasynthetic Library of Platensimycin and Platencin Analogues. Organic Letters, 2016, 18, 4606-4609.	4.6	16
80	Zorbamycin has a different DNA sequence selectivity compared with bleomycin and analogues. Bioorganic and Medicinal Chemistry, 2016, 24, 6094-6101.	3.0	7
81	Characterization of LnmO as a pathway-specific Crp/Fnr-type positive regulator for leinamycin biosynthesis in Streptomyces atroolivaceus and its application for titer improvement. Applied Microbiology and Biotechnology, 2016, 100, 10555-10562.	3.6	11
82	Structure of the ent-Copalyl Diphosphate Synthase PtmT2 from Streptomyces platensis CB00739, a Bacterial Type II Diterpene Synthase. Journal of the American Chemical Society, 2016, 138, 10905-10915.	13.7	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 Enediyne Antitumor Antibiotic C-1027 in Streptomyces globisporus. Biochemistry, 2016, 55, 5142-5154.	2.5	18
84	Characterization of the Ketosynthase and Acyl Carrier Protein Domains at the LnmI Nonribosomal Peptide Synthetaseâ€“Polyketide Synthase Interface for Leinamycin Biosynthesis. Organic Letters, 2016, 18, 4288-4291.	4.6	13
85	Crystal structure of SgcJ, an NTF2-like superfamily protein involved in biosynthesis of the nine-membered enediyne antitumor antibiotic C-1027. Journal of Antibiotics, 2016, 69, 731-740.	2.0	10
86	Engineered production of cancer targeting peptide (CTP)-containing C-1027 in Streptomyces globisporus and biological evaluation. Bioorganic and Medicinal Chemistry, 2016, 24, 3887-3892.	3.0	7
87	Synthetic biology to access and expand nature's chemical diversity. Nature Reviews Microbiology, 2016, 14, 135-149.	28.6	393
88	Overproduction of lactimidomycin by cross-overexpression of genes encoding Streptomyces antibiotic regulatory proteins. Applied Microbiology and Biotechnology, 2016, 100, 2267-2277.	3.6	14
89	Genome neighborhood network reveals insights into enediyne biosynthesis and facilitates prediction and prioritization for discovery. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 261-276.	3.0	55
90	A New Golden Age of Natural Products Drug Discovery. Cell, 2015, 163, 1297-1300.	28.9	507

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91	Crystal Structure of the Zorbamycin-Binding Protein ZbmA, the Primary Self-Resistance Element in Streptomyces flavoviridis ATCC21892. Biochemistry, 2015, 54, 6842-6851.	2.5	9
92	Adipostatins Aâ€“D from Streptomyces sp. 4875 inhibiting Brugia malayi asparaginyl-tRNA synthetase and killing adult Brugia malayi parasites. Journal of Antibiotics, 2015, 68, 540-542.	2.0	13
93	Leinamycin E1 acting as an anticancer prodrug activated by reactive oxygen species. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8278-8283.	7.1	45
94	C-S bond cleavage by a polyketide synthase domain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10359-10364.	7.1	39
95	Synthesis and evaluation of 8,4â€²-dideshydroxy-leinamycin revealing new insights into the structureâ€“activity relationship of the anticancer natural product leinamycin. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4899-4902.	2.2	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. Molecular BioSystems, 2015, 11, 2717-2726.	2.9	48
97	Deciphering Poxvirus Gene Expression by RNA Sequencing and Ribosome Profiling. Journal of Virology, 2015, 89, 6874-6886.	3.4	62
98	Structural and evolutionary relationships of â€œAT-lessâ€•type I polyketide synthase ketosynthases. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12693-12698.	7.1	55
99	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	8.0	715
100	Angucyclines and Angucyclinones from Streptomyces sp. CB01913 Featuring C-Ring Cleavage and Expansion. Journal of Natural Products, 2015, 78, 2471-2480.	3.0	41
101	Enediynes: Exploration of microbial genomics to discover new anticancer drug leads. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 9-15.	2.2	55
102	Quantitative profiling of initiating ribosomes in vivo. Nature Methods, 2015, 12, 147-153.	19.0	222
103	The radiomimetic enediyne, 20â€²-deschloro-C-1027 induces inter-strand DNA crosslinks in hypoxic cells and overcomes cytotoxic radioresistance. DNA Repair, 2014, 21, 165-170.	2.8	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. Biochemistry, 2014, 53, 7854-7865.	2.5	22
105	Strain Prioritization for Natural Product Discovery by a High-Throughput Real-Time PCR Method. Journal of Natural Products, 2014, 77, 2296-2303.	3.0	75
106	Mechanisms of Self-Resistance in the Platensimycin- and Platencin-Producing Streptomyces platensis MA7327 and MA7339 Strains. Chemistry and Biology, 2014, 21, 389-397.	6.0	65
107	Biosynthetic Potential-Based Strain Prioritization for Natural Product Discovery: A Showcase for Diterpenoid-Producing Actinomycetes. Journal of Natural Products, 2014, 77, 377-387.	3.0	45
108	Cycloheximide and Actiphenol Production in Streptomyces sp. YIM56141 Governed by Single Biosynthetic Machinery Featuring an Acyltransferase-less Type I Polyketide Synthase. Organic Letters, 2014, 16, 3072-3075.	4.6	54

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109	Medium optimization of Streptomyces sp. 17944 for tirandamycin B production and isolation and structural elucidation of tirandamycins H, I and J. Journal of Antibiotics, 2014, 67, 127-132.	2.0	30
110	Cloning and sequencing of the kedarcidin biosynthetic gene cluster from Streptoalloteichus sp. ATCC 53650 revealing new insights into biosynthesis of the enediyne family of antitumor antibiotics. Molecular BioSystems, 2013, 9, 478.	2.9	39
111	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. Natural Product Reports, 2013, 30, 108-160.	10.3	1,692
112	Post-Polyketide Synthase Steps in Iso-migrastatin Biosynthesis, Featuring Tailoring Enzymes with Broad Substrate Specificity. Journal of the American Chemical Society, 2013, 135, 2489-2492.	13.7	16
113	Isolation and structural elucidation of glucoside congeners of platencin from Streptomyces platensis SB12600. Journal of Antibiotics, 2013, 66, 291-294.	2.0	13
114	Structure of the Bifunctional Acyltransferase/Decarboxylase LnmK from the Leinamycin Biosynthetic Pathway Revealing Novel Activity for a Double-Hot-Dog Fold. Biochemistry, 2013, 52, 902-911.	2.5	31
115	A new member of the 4-methylideneimidazole-5-one-containing aminomutase family from the enediyne kedarcidin biosynthetic pathway. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8069-8074.	7.1	16
116	Global mapping of translation initiation sites in mammalian cells at single-nucleotide resolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2424-32.	7.1	534
117	Decoding Human Cytomegalovirus. Science, 2012, 338, 1088-1093.	12.6	546
118	Expression of the Platencin Biosynthetic Gene Cluster in Heterologous Hosts Yielding New Platencin Congeners. Journal of Natural Products, 2012, 75, 2158-2167.	3.0	56
119	A Designer Bleomycin with Significantly Improved DNA Cleavage Activity. Journal of the American Chemical Society, 2012, 134, 13501-13509.	13.7	37
120	Specificity of the Ester Bond Forming Condensation Enzyme SgcC5 in C-1027 Biosynthesis. Organic Letters, 2012, 14, 2300-2303.	4.6	17
121	Functional Characterization of ttnI Completing the Tailoring Steps for Tautomycetin Biosynthesis in Streptomyces griseochromogenes. Organic Letters, 2012, 14, 1302-1305.	4.6	9
122	New WS9326A Congeners from Streptomyces sp. 9078 Inhibiting Brugia malayi Asparaginyl-tRNA Synthetase. Organic Letters, 2012, 14, 4946-4949.	4.6	51
123	Bacterial diterpene synthases: new opportunities for mechanistic enzymology and engineered biosynthesis. Current Opinion in Chemical Biology, 2012, 16, 132-141.	6.1	83
124	Tirandamycins fromStreptomycessp. 17944 Inhibiting the ParasiteBrugia malayiAsparagine tRNA Synthetase. Organic Letters, 2011, 13, 2034-2037.	4.6	62
125	Characterization of the lnmKLM Genes Unveiling Key Intermediates for Î²-Alkylation in Leinamycin Biosynthesis. Organic Letters, 2011, 13, 498-501.	4.6	29
126	Actinopolysporins Aâ€“C and Tubercidin as a Pdcd4 Stabilizer from the Halophilic Actinomycete Actinopolyspora erythraea YIM 90600. Journal of Natural Products, 2011, 74, 1990-1995.	3.0	44

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127	Comparative Analysis of the Biosynthetic Gene Clusters and Pathways for Three Structurally Related Antitumor Antibiotics: Bleomycin, Tallysomycin, and Zorbamycin. Journal of Natural Products, 2011, 74, 526-536.	3.0	55
128	Improvement of the Enediyne Antitumor Antibiotic C-1027 Production by Manipulating Its Biosynthetic Pathway Regulation in Streptomyces globisporus. Journal of Natural Products, 2011, 74, 420-424.	3.0	36
129	Titer improvement of iso-migrastatin in selected heterologous Streptomyces hosts and related analysis of mRNA expression by quantitative RTâ€“PCR. Applied Microbiology and Biotechnology, 2011, 89, 1709-1719.	3.6	22
130	SHP2 Is a Target of the Immunosuppressant Tautomycetin. Chemistry and Biology, 2011, 18, 101-110.	6.0	50
131	Dedicated ent -kaurene and ent -atiserene synthases for platensimycin and platencin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13498-13503.	7.1	130
132	Improvement of secondary metabolite production in Streptomyces by manipulating pathway regulation. Applied Microbiology and Biotechnology, 2010, 86, 19-25.	3.6	97
133	Iso-migrastatin titer improvement in the engineered Streptomyces lividans SB11002 strain by optimization of fermentation conditions. Biotechnology and Bioprocess Engineering, 2010, 15, 664-669.	2.6	6
134	Multifaceted Modes of Action for the Glutarimideâ€Containing Polyketides Revealed. ChemBioChem, 2010, 11, 1951-1954.	2.6	24
135	Manipulation of pathway regulation in Streptomyces globisporus for overproduction of the enediyne antitumor antibiotic C-1027. Journal of Antibiotics, 2010, 63, 482-485.	2.0	30
136	Inhibition of eukaryotic translation elongation by cycloheximide and lactimidomycin. Nature Chemical Biology, 2010, 6, 209-217.	8.0	757
137	Polyketide synthase chemistry does not direct biosynthetic divergence between 9- and 10-membered enediynes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11331-11335.	7.1	51
138	The Role of Evolution in the Discovery of New Drugs and Chemicals. ACS Symposium Series, 2010, , 205-232.	0.5	0
139	Functional Characterization of TtnD and TtnF, Unveiling New Insights into Tautomycetin Biosynthesis. Journal of the American Chemical Society, 2010, 132, 6663-6671.	13.7	21
140	Engineering of Streptomyces platensis MA7339 for Overproduction of Platencin and Congeners. Organic Letters, 2010, 12, 1744-1747.	4.6	41
141	Enediyne Antitumor Antibiotic Maduropeptin Biosynthesis Featuring a C-Methyltransferase That Acts on a CoA-Tethered Aromatic Substrate. Journal of the American Chemical Society, 2010, 132, 12534-12536.	13.7	22
142	Functional characterization of tlmH in Streptoalloteichus hindustanus E465-94 ATCC 31158 unveiling new insight into tallysomycinbiosynthesis and affording a novel bleomycin analog. Molecular BioSystems, 2010, 6, 349-356.	2.9	15
143	C-1027, A Radiomimetic Enediyne Anticancer Drug, Preferentially Targets Hypoxic Cells. Cancer Research, 2009, 69, 593-598.	0.9	32
144	A free-standing condensation enzyme catalyzing ester bond formation in C-1027 biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4183-4188.	7.1	80

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145	iso-Migrastatin, Migrastatin, and Dorrigocin Production in Streptomyces platensis NRRL 18993 Is Governed by a Single Biosynthetic Machinery Featuring an Acyltransferase-less Type I Polyketide Synthase. Journal of Biological Chemistry, 2009, 284, 29746-29756.	3.4	53
146	Engineered Streptomyces platensis Strains That Overproduce Antibiotics Platensimycin and Platencin. Antimicrobial Agents and Chemotherapy, 2009, 53, 1299-1304.	3.2	92
147	Engineered production of iso-migrastatin in heterologous Streptomyces hosts. Bioorganic and Medicinal Chemistry, 2009, 17, 2147-2153.	3.0	50
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