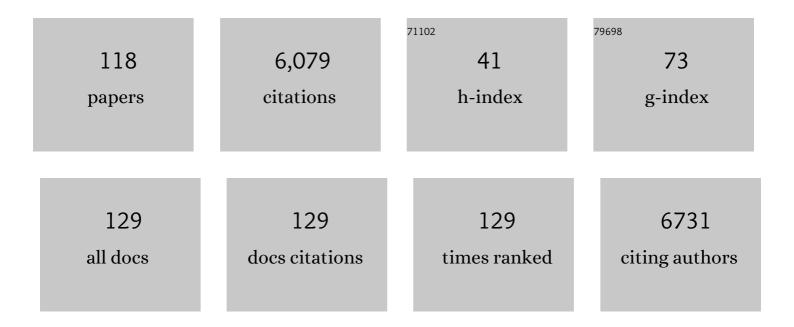
## **Changsheng Zhang**

List of Publications by Year in descending order

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CHANCSHENC ZHANC

#	Article	IF	CITATIONS
1	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	8.0	715
2	Crystal structure of SARS-CoV-2 nucleocapsid protein RNA binding domain reveals potential unique drug targeting sites. Acta Pharmaceutica Sinica B, 2020, 10, 1228-1238.	12.0	547
3	Exploiting the Reversibility of Natural Product Glycosyltransferase-Catalyzed Reactions. Science, 2006, 313, 1291-1294.	12.6	263
4	Expanding the promiscuity of a natural-product glycosyltransferase by directed evolution. Nature Chemical Biology, 2007, 3, 657-662.	8.0	249
5	Antibiotic optimization via in vitro glycorandomization. Nature Biotechnology, 2003, 21, 1467-1469.	17.5	214
6	Antimalarial β-Carboline and Indolactam Alkaloids from Marinactinospora thermotolerans, a Deep Sea Isolate. Journal of Natural Products, 2011, 74, 2122-2127.	3.0	140
7	N–N oupled Indoloâ€sesquiterpene Atropoâ€Diastereomers from a Marineâ€Derived Actinomycete. Europea Journal of Organic Chemistry, 2012, 2012, 5256-5262.	in 2.4	137
8	Spiroindimicins A–D: New Bisindole Alkaloids from a Deep-Sea-Derived Actinomycete. Organic Letters, 2012, 14, 3364-3367.	4.6	120
9	Diversifying Vancomycin via Chemoenzymatic Strategies. Organic Letters, 2005, 7, 1513-1515.	4.6	101
10	Biosynthesis of Himastatin: Assembly Line and Characterization of Three Cytochromeâ€P450 Enzymes Involved in the Postâ€ŧailoring Oxidative Steps. Angewandte Chemie - International Edition, 2011, 50, 7797-7802.	13.8	89
11	Mechanistic Insights into Polycycle Formation by Reductive Cyclization in Ikarugamycin Biosynthesis. Angewandte Chemie - International Edition, 2014, 53, 4840-4844.	13.8	89
12	Optimizing Glycosyltransferase Specificity via "Hot Spot―Saturation Mutagenesis Presents a Catalyst for Novobiocin Glycorandomization. Chemistry and Biology, 2008, 15, 393-401.	6.0	88
13	Identification and Characterization of Xiamycin A and Oxiamycin Gene Cluster Reveals an Oxidative Cyclization Strategy Tailoring Indolosesquiterpene Biosynthesis. Journal of the American Chemical Society, 2012, 134, 8996-9005.	13.7	87
14	Activation and characterization of a cryptic gene cluster reveals a cyclization cascade for polycyclic tetramate macrolactams. Chemical Science, 2017, 8, 1607-1612.	7.4	82
15	Characterization of Tiacumicin B Biosynthetic Gene Cluster Affording Diversified Tiacumicin Analogues and Revealing a Tailoring Dihalogenase. Journal of the American Chemical Society, 2011, 133, 1092-1105.	13.7	81
16	Structural Basis of Transcription Inhibition by Fidaxomicin (Lipiarmycin A3). Molecular Cell, 2018, 70, 60-71.e15.	9.7	81
17	Lobophorins E and F, new spirotetronate antibiotics from a South China Sea-derived Streptomyces sp. SCSIO 01127. Journal of Antibiotics, 2011, 64, 711-716.	2.0	80
18	The in Vitro Characterization of the Iterative Avermectin Glycosyltransferase AveBI Reveals Reaction Reversibility and Sugar Nucleotide Flexibility. Journal of the American Chemical Society, 2006, 128, 16420-16421.	13.7	76

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19	Natural Product Diversification Using a Non-natural Cofactor Analogue of S-Adenosyl-l-methionine. Journal of the American Chemical Society, 2006, 128, 2760-2761.	13.7	72
20	Pseudonocardians A–C, New Diazaanthraquinone Derivatives from a Deap-Sea Actinomycete Pseudonocardia sp. SCSIO 01299. Marine Drugs, 2011, 9, 1428-1439.	4.6	72
21	Substrate Specificity of the Macrolide-Glycosylating Enzyme Pair DesVII/DesVIII: Opportunities, Limitations, and Mechanistic Hypotheses. Angewandte Chemie - International Edition, 2006, 45, 2748-2753.	13.8	71
22	Heterologous Expression of Fluostatin Gene Cluster Leads to a Bioactive Heterodimer. Organic Letters, 2015, 17, 5324-5327.	4.6	68
23	RebG- and RebM-Catalyzed Indolocarbazole Diversification. ChemBioChem, 2006, 7, 795-804.	2.6	67
24	Cytotoxic Angucycline Class Glycosides from the Deep Sea Actinomycete <i>Streptomyces lusitanus</i> SCSIO LR32. Journal of Natural Products, 2012, 75, 202-208.	3.0	66
25	Deciphering Indolocarbazole and Enediyne Aminodideoxypentose Biosynthesis through Comparative Genomics: Insights from the AT2433 Biosynthetic Locus. Chemistry and Biology, 2006, 13, 733-743.	6.0	63
26	Comparative Genomics Analysis of Streptomyces Species Reveals Their Adaptation to the Marine Environment and Their Diversity at the Genomic Level. Frontiers in Microbiology, 2016, 7, 998.	3.5	62
27	Recombinant <i>E. coli</i> Prototype Strains for <i>in Vivo</i> Glycorandomization. ACS Chemical Biology, 2011, 6, 95-100.	3.4	59
28	Genome Mining and Activation of a Silent PKS/NRPS Gene Cluster Direct the Production of Totopotensamides. Organic Letters, 2017, 19, 5697-5700.	4.6	59
29	Biosynthesis of the C7-cyclitol Moiety of Acarbose inActinoplanes Species SE50/110. Journal of Biological Chemistry, 2002, 277, 22853-22862.	3.4	58
30	Structure and Mechanism of the Rebeccamycin Sugar 4′-O-Methyltransferase RebM. Journal of Biological Chemistry, 2008, 283, 22628-22636.	3.4	57
31	Fluostatins l–K from the South China Sea-Derived <i>Micromonospora rosaria</i> SCSIO N160. Journal of Natural Products, 2012, 75, 1937-1943.	3.0	57
32	Identification of Caerulomycin A Gene Cluster Implicates a Tailoring Amidohydrolase. Organic Letters, 2012, 14, 2666-2669.	4.6	56
33	Molecular basis of dimer formation during the biosynthesis of benzofluorene-containing atypical angucyclines. Nature Communications, 2018, 9, 2088.	12.8	53
34	Biochemical and Structural Insights of the Early Glycosylation Steps in Calicheamicin Biosynthesis. Chemistry and Biology, 2008, 15, 842-853.	6.0	51
35	Antibacterial and Cytotoxic New Napyradiomycins from the Marine-Derived Streptomyces sp. SCSIO 10428. Marine Drugs, 2013, 11, 2113-2125.	4.6	51
36	Indimicins A–E, Bisindole Alkaloids from the Deep-Sea-Derived <i>Streptomyces</i> sp. SCSIO 03032. Journal of Natural Products, 2014, 77, 1887-1892.	3.0	49

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37	Insights into Caerulomycin A Biosynthesis: A Two-Component Monooxygenase CrmH-Catalyzed Oxime Formation. Journal of the American Chemical Society, 2013, 135, 18750-18753.	13.7	47
38	Recent Advances in Discovery, Biosynthesis and Genome Mining of Medicinally Relevant Polycyclic Tetramate Macrolactams. Current Topics in Medicinal Chemistry, 2016, 16, 1727-1739.	2.1	47
39	Dissecting Glycosylation Steps in Lobophorin Biosynthesis Implies an Iterative Glycosyltransferase. Organic Letters, 2013, 15, 1374-1377.	4.6	46
40	Heronamides D–F, Polyketide Macrolactams from the Deep-Sea-Derived <i>Streptomyces</i> sp. SCSIO 03032. Journal of Natural Products, 2014, 77, 388-391.	3.0	45
41	The In Vitro Characterization of the Erythronolide Mycarosyltransferase EryBV and Its Utility in Macrolide Diversification. ChemBioChem, 2007, 8, 385-390.	2.6	43
42	Carboxyl Formation from Methyl via Triple Hydroxylations by XiaM in Xiamycin A Biosynthesis. Organic Letters, 2012, 14, 6142-6145.	4.6	43
43	New diketopiperazine derivatives from a deep-sea-derived Nocardiopsis alba SCSIO 03039. Journal of Antibiotics, 2013, 66, 31-36.	2.0	43
44	Cloning and characterization of the biosynthetic gene cluster of the bacterial RNA polymerase inhibitor tirandamycin from marine-derived Streptomyces sp. SCSIO1666. Biochemical and Biophysical Research Communications, 2011, 406, 341-347.	2.1	42
45	Characterization of the Amicetin Biosynthesis Gene Cluster from Streptomyces vinaceusdrappus NRRL 2363 Implicates Two Alternative Strategies for Amide Bond Formation. Applied and Environmental Microbiology, 2012, 78, 2393-2401.	3.1	41
46	Discovery and Engineered Overproduction of Antimicrobial Nucleoside Antibiotic A201A from the Deep-Sea Marine Actinomycete Marinactinospora thermotolerans SCSIO 00652. Antimicrobial Agents and Chemotherapy, 2012, 56, 110-114.	3.2	40
47	Characterization of Heronamide Biosynthesis Reveals a Tailoring Hydroxylase and Indicates Migrated Double Bonds. ChemBioChem, 2015, 16, 2086-2093.	2.6	39
48	Elucidating Hydroxylation and Methylation Steps Tailoring Piericidin A1 Biosynthesis. Organic Letters, 2014, 16, 736-739.	4.6	38
49	α-Pyrones with Diverse Hydroxy Substitutions from Three Marine-Derived <i>Nocardiopsis</i> Strains. Journal of Natural Products, 2016, 79, 1610-1618.	3.0	37
50	Acyclic Congeners from <i>Actinoalloteichus cyanogriseus</i> Provide Insights into Cyclic Bipyridine Glycoside Formation. Organic Letters, 2014, 16, 4264-4267.	4.6	36
51	Isolation, structure elucidation and biosynthesis of benzo[b]fluorene nenestatin A from deep-sea derived Micromonospora echinospora SCSIO 04089. Tetrahedron, 2017, 73, 3585-3590.	1.9	36
52	Pseudonocardia antitumoralis sp. nov., a deoxynyboquinone-producing actinomycete isolated from a deep-sea sediment. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 893-899.	1.7	35
53	Elucidating the Cyclization Cascades in Xiamycin Biosynthesis by Substrate Synthesis and Enzyme Characterizations. Organic Letters, 2015, 17, 306-309.	4.6	35
54	Characterization of the flavoenzyme XiaK as an N-hydroxylase and implications in indolosesquiterpene diversification. Chemical Science, 2017, 8, 5067-5077.	7.4	35

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55	Structural Insight into the Self-Sacrifice Mechanism of Enediyne Resistance. ACS Chemical Biology, 2006, 1, 451-460.	3.4	34
56	New Cytochalasins from the Marineâ€Derived Fungus <i>Xylaria</i> sp. SCSIO 156. Helvetica Chimica Acta, 2011, 94, 1671-1676.	1.6	34
57	Nocardiamides A and B, Two Cyclohexapeptides from the Marine-Derived Actinomycete <i>Nocardiopsis</i> sp. CNX037. Journal of Natural Products, 2013, 76, 694-701.	3.0	34
58	Pyrazolofluostatins A–C, Pyrazole-Fused Benzo[ <i>a</i> ]fluorenes from South China Sea-Derived <i>Micromonospora rosaria</i> SCSIO N160. Organic Letters, 2017, 19, 592-595.	4.6	34
59	Marininema mesophilum gen. nov., sp. nov., a thermoactinomycete isolated from deep sea sediment, and emended description of the family Thermoactinomycetaceae. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1383-1388.	1.7	29
60	The in vitro Characterization of Polyene Glycosyltransferases AmphDI and NysDI. ChemBioChem, 2008, 9, 2506-2514.	2.6	27
61	Streptomyces oceani sp. nov., a new obligate marine actinomycete isolated from a deep-sea sample of seep authigenic carbonate nodule in South China Sea. Antonie Van Leeuwenhoek, 2012, 102, 335-343.	1.7	27
62	Characterization of a Single Gene Cluster Responsible for Methylpendolmycin and Pendolmycin Biosynthesis in the Deep Sea Bacterium <i>Marinactinospora thermotolerans</i> . ChemBioChem, 2012, 13, 547-552.	2.6	27
63	Characterizing Amosamine Biosynthesis in Amicetin Reveals AmiG as a Reversible Retaining Glycosyltransferase. Journal of the American Chemical Society, 2013, 135, 12152-12155.	13.7	27
64	The acarbose-biosynthetic enzyme AcbO from Actinoplanes sp. SE 50/110 is a 2-epi -5-epi -valiolone-7-phosphate 2-epimerase. FEBS Letters, 2003, 540, 47-52.	2.8	26
65	Penicacids A–C, three new mycophenolic acid derivatives and immunosuppressive activities from the marine-derived fungus Penicillium sp. SOF07. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3332-3335.	2.2	26
66	Characterization of <i>TrdL</i> as a 10-Hydroxy Dehydrogenase and Generation of New Analogues from a Tirandamycin Biosynthetic Pathway. Organic Letters, 2011, 13, 2212-2215.	4.6	25
67	Characterization of a Sugarâ€Oâ€methyltransferase TiaS5 Affords New Tiacumicin Analogues with Improved Antibacterial Properties and Reveals Substrate Promiscuity. ChemBioChem, 2011, 12, 1740-1748.	2.6	25
68	Functional characterization of the halogenase SpmH and discovery of new deschloro-tryptophan dimers. Organic and Biomolecular Chemistry, 2019, 17, 1053-1057.	2.8	24
69	Δ11,12 Double Bond Formation in Tirandamycin Biosynthesis is Atypically Catalyzed by TrdE, a Glycoside Hydrolase Family Enzyme. Journal of the American Chemical Society, 2012, 134, 2844-2847.	13.7	23
70	Biochemical and Structural Insights into the Aminotransferase CrmG in Caerulomycin Biosynthesis. ACS Chemical Biology, 2016, 11, 943-952.	3.4	23
71	Marine Bacterial Aromatic Polyketides From Host-Dependent Heterologous Expression and Fungal Mode of Cyclization. Frontiers in Chemistry, 2018, 6, 528.	3.6	22
72	Genome Mining of Marine-Derived Streptomyces sp. SCSIO 40010 Leads to Cytotoxic New Polycyclic Tetramate Macrolactams. Marine Drugs, 2019, 17, 663.	4.6	22

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73	Dassonmycins A and B, Polycyclic Thioalkaloids from a Marine Sponge-Derived <i>Nocardiopsis dassonvillei</i> SCSIO 40065. Organic Letters, 2021, 23, 2858-2862.	4.6	21
74	New polycyclic tetramate macrolactams from marine-derived Streptomyces sp. SCSIO 40060. Tetrahedron, 2018, 74, 6839-6845.	1.9	20
75	Refactoring the Concise Biosynthetic Pathway of Cyanogramide Unveils Spirooxindole Formation Catalyzed by a P450 Enzyme. Angewandte Chemie - International Edition, 2020, 59, 14065-14069.	13.8	20
76	Streptomyces nanhaiensis sp. nov., a marine streptomycete isolated from a deep-sea sediment. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 864-868.	1.7	19
77	Identification of a 1-epi-valienol 7-kinase activity in the producer of acarbose,Actinoplanessp. SE50/110. FEBS Letters, 2003, 540, 53-57.	2.8	17
78	Characterization of the sugar-O-methyltransferase LobS1 in lobophorin biosynthesis. Applied Microbiology and Biotechnology, 2013, 97, 9043-9053.	3.6	17
79	Identification and characterization of a biosynthetic gene cluster for tryptophan dimers in deep sea-derived Streptomyces sp. SCSIO 03032. Applied Microbiology and Biotechnology, 2017, 101, 6123-6136.	3.6	16
80	<i>S</i> -Bridged Thioether and Structure-Diversified Angucyclinone Derivatives from the South China Sea-Derived <i>Micromonospora echinospora</i> SCSIO 04089. Journal of Natural Products, 2020, 83, 3122-3130.	3.0	16
81	Understand the Specific Regio- and Enantioselectivity of Fluostatin Conjugation in the Post-Biosynthesis. Biomolecules, 2020, 10, 815.	4.0	15
82	Heterologous Expression Leads to Discovery of Diversified Lobophorin Analogues and a Flexible Glycosyltransferase. Organic Letters, 2020, 22, 1062-1066.	4.6	15
83	Flavoenzyme CrmK-mediated substrate recycling in caerulomycin biosynthesis. Chemical Science, 2016, 7, 4867-4874.	7.4	14
84	Tiacumicin Congeners with Improved Antibacterial Activity from a Halogenase-Inactivated Mutant. Journal of Natural Products, 2018, 81, 1219-1224.	3.0	14
85	Activation and Characterization of Bohemamine Biosynthetic Gene Cluster from <i>Streptomyces</i> sp. CB02009. Organic Letters, 2020, 22, 4614-4619.	4.6	14
86	Identification and bioactivity evaluation of secondary metabolites from Antarctic-derived <i>Penicillium chrysogenum</i> CCTCC M 2020019. RSC Advances, 2020, 10, 20738-20744.	3.6	14
87	Discovery and Biosynthesis of Neoenterocins Indicate a Skeleton Rearrangement of Enterocin. Organic Letters, 2019, 21, 9066-9070.	4.6	13
88	Albumycin, a new isoindolequinone from Streptomyces albus J1074 harboring the fluostatin biosynthetic gene cluster. Journal of Antibiotics, 2019, 72, 311-315.	2.0	13
89	Engineered Biosynthesis of 5/5/6 Type Polycyclic Tetramate Macrolactams in an Ikarugamycin (5/6/5) Tj ETQq1 1	0.784314 4.6	l rgBT /Overlo
	A new uridine derivative and a new indole derivative from the coral-associated actinomycete		

A new uridine derivative and a new indole derivative from the coral-associated actinomycete Pseudonocardia sp. SCSIO 11457. Natural Product Research, 2021, 35, 188-194.

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91	Discovery of a new asymmetric dimer nenestatin B and implications of a dimerizing enzyme in a deep sea actinomycete. Organic and Biomolecular Chemistry, 2021, 19, 4243-4247.	2.8	12
92	Characterizing Two Cytochrome P450s in Tiacumicin Biosynthesis Reveals Reaction Timing for Tailoring Modifications. Organic Letters, 2019, 21, 7679-7683.	4.6	10
93	Discovery of Stealthin Derivatives and Implication of the Amidotransferase FlsN3 in the Biosynthesis of Nitrogen-Containing Fluostatins. Marine Drugs, 2019, 17, 150.	4.6	10
94	Deciphering Biosynthetic Enzymes Leading to 4-Chloro-6-Methyl-5,7-Dihydroxyphenylglycine, a Non-Proteinogenic Amino Acid in Totopotensamides. ACS Chemical Biology, 2020, 15, 766-773.	3.4	10
95	Inactivation of Flavoenzyme-Encoding Gene <i>flsO1</i> in Fluostatin Biosynthesis Leads to Diversified Angucyclinone Derivatives. Journal of Organic Chemistry, 2021, 86, 11019-11028.	3.2	10
96	Structural analyses of the Group A flavin-dependent monooxygenase PieE reveal a sliding FAD cofactor conformation bridging OUT and IN conformations. Journal of Biological Chemistry, 2020, 295, 4709-4722.	3.4	9
97	Heterologous expression of the trichostatin gene cluster and functional characterization of <i>N</i> -methyltransferase TsnB8. Organic and Biomolecular Chemistry, 2020, 18, 3649-3653.	2.8	9
98	Complete genome sequence of Streptomyces sp. SCSIO 03032 isolated from Indian Ocean sediment, producing diverse bioactive natural products. Marine Genomics, 2021, 55, 100803.	1.1	9
99	Structural studies reveal flexible roof of active site responsible for ω-transaminase CrmG overcoming by-product inhibition. Communications Biology, 2020, 3, 455.	4.4	8
100	Structures and absolute configurations of phomalones from the coral-associated fungus <i>Parengyodontium album</i> sp. SCSIO 40430. Organic and Biomolecular Chemistry, 2021, 19, 6030-6037.	2.8	8
101	New piericidin derivatives from the marine-derived <i>streptomyces</i> sp. SCSIO 40063 with cytotoxic activity. Natural Product Research, 2022, 36, 2458-2464.	1.8	8
102	Antifungal Macrolides Kongjuemycins from Coral-Associated Rare Actinomycete <i>Pseudonocardia kongjuensis</i> SCSIO 11457. Organic Letters, 2022, 24, 3482-3487.	4.6	8
103	Assembly Line and Post-PKS Modifications in the Biosynthesis of Marine Polyketide Natural Products. , 2020, , 139-197.		7
104	Discovery of an Unexpected 1,4-Oxazepine-Linked <i>seco</i> -Fluostatin Heterodimer by Inactivation of the Oxidoreductase-Encoding Gene <i>flsP</i> . Journal of Natural Products, 2021, 84, 2336-2344.	3.0	7
105	Host-dependent heterologous expression of berninamycin gene cluster leads to linear thiopeptide antibiotics. Organic and Biomolecular Chemistry, 2021, 19, 8940-8946.	2.8	7
106	Mutation of an atypical oxirane oxyanion hole improves regioselectivity of the α/β-fold epoxide hydrolase Alp1U. Journal of Biological Chemistry, 2020, 295, 16987-16997.	3.4	6
107	Proximicins F and G and Diproximicin A: Aminofurans from the Marine-Derived <i>Verrucosispora</i> sp. SCSIO 40062 by Overexpression of PPtase Genes. Journal of Natural Products, 2020, 83, 1152-1156.	3.0	6
108	Cylindromicin from Arctic-Derived Fungus Tolypocladium sp. SCSIO 40433. Molecules, 2021, 26, 1080.	3.8	5

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109	Antibacterial phenylspirodrimanes from the marine-derived fungus Stachybotrys sp. SCSIO 40434. Fìtoterapìâ, 2021, 152, 104937.	2.2	5
110	Two New Phenylhydrazone Derivatives from the Pearl River Estuary Sediment-Derived Streptomyces sp. SCSIO 40020. Marine Drugs, 2022, 20, 449.	4.6	4
111	Refactoring the Concise Biosynthetic Pathway of Cyanogramide Unveils Spirooxindole Formation Catalyzed by a P450 Enzyme. Angewandte Chemie, 2020, 132, 14169-14173.	2.0	3
112	Ocauxarthrol A from Auxarthron umbrinum SCSIO 40432 and configurational reassignment of chrysoqueen and auxarthrols. Tetrahedron Letters, 2021, 66, 152842.	1.4	2
113	A simple and facile iodination method of didechlorotiacumicin B and aromatic compounds. Science China Chemistry, 2021, 64, 1736.	8.2	2
114	Elaiophylin reduces body weight and lowers glucose levels in obese mice by activating AMPK. Cell Death and Disease, 2021, 12, 972.	6.3	2
115	A new xanthostatin analogue from the marine sponge-associated actinomycete <i>Streptomyces</i> sp. SCSIO 40064. Natural Product Research, 2022, 36, 3529-3537.	1.8	2
116	Penicisteckins A–F, Isochroman-Derived Atropisomeric Dimers from <i>Penicillium steckii</i> HNNU-5B18. Journal of Natural Products, 2021, 84, 2953-2960.	3.0	2
117	Preliminary X-ray crystallographic analysis of the glycosyltransferase from a marineStreptomycesspecies. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 136-139.	0.7	1
118	Configurational Assignment of Malfilamentoside A and a New Furanone Glycoside Malfilamentoside D. Chinese Journal of Organic Chemistry, 2022, 42, 1229.	1.3	0