

Yiguang Zhu

List of Publications by Year in descending order

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52
papers

1,455
citations

331670

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docs citations

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times ranked

1335
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic Insights into Polycycle Formation by Reductive Cyclization in Ikarugamycin Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4840-4844.	13.8	89
2	Identification and Characterization of Xiamycin A and Oxiamycin Gene Cluster Reveals an Oxidative Cyclization Strategy Tailoring Indolosesquiterpene Biosynthesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 8996-9005.	13.7	87
3	Activation and characterization of a cryptic gene cluster reveals a cyclization cascade for polycyclic tetramate macrolactams. <i>Chemical Science</i> , 2017, 8, 1607-1612.	7.4	82
4	Diisonitrile Natural Product SF2768 Functions As a Chalkophore That Mediates Copper Acquisition in <i>Streptomyces thioluteus</i> . <i>ACS Chemical Biology</i> , 2017, 12, 3067-3075.	3.4	75
5	Heterologous Expression of Fluostatin Gene Cluster Leads to a Bioactive Heterodimer. <i>Organic Letters</i> , 2015, 17, 5324-5327.	4.6	68
6	Genome Mining and Activation of a Silent PKS/NRPS Gene Cluster Direct the Production of Totopotensamides. <i>Organic Letters</i> , 2017, 19, 5697-5700.	4.6	59
7	Fluostatins from the South China Sea-Derived <i>Micromonospora rosaria</i> SCSIO N160. <i>Journal of Natural Products</i> , 2012, 75, 1937-1943.	3.0	57
8	Identification of Caerulomycin A Gene Cluster Implicates a Tailoring Amidohydrolase. <i>Organic Letters</i> , 2012, 14, 2666-2669.	4.6	56
9	Molecular basis of dimer formation during the biosynthesis of benzofluorene-containing atypical angucyclines. <i>Nature Communications</i> , 2018, 9, 2088.	12.8	53
10	Insights into Caerulomycin A Biosynthesis: A Two-Component Monooxygenase CrmH-Catalyzed Oxime Formation. <i>Journal of the American Chemical Society</i> , 2013, 135, 18750-18753.	13.7	47
11	Dissecting Glycosylation Steps in Lobophorin Biosynthesis Implies an Iterative Glycosyltransferase. <i>Organic Letters</i> , 2013, 15, 1374-1377.	4.6	46
12	Heronamides, Polyketide Macrolactams from the Deep-Sea-Derived <i>Streptomyces</i> sp. SCSIO 03032. <i>Journal of Natural Products</i> , 2014, 77, 388-391.	3.0	45
13	Carboxyl Formation from Methyl via Triple Hydroxylations by XiaM in Xiamycin A Biosynthesis. <i>Organic Letters</i> , 2012, 14, 6142-6145.	4.6	43
14	Characterization of Heronamide Biosynthesis Reveals a Tailoring Hydroxylase and Indicates Migrated Double Bonds. <i>ChemBioChem</i> , 2015, 16, 2086-2093.	2.6	39
15	Elucidating Hydroxylation and Methylation Steps Tailoring Pericidin A1 Biosynthesis. <i>Organic Letters</i> , 2014, 16, 736-739.	4.6	38
16	Isolation, structure elucidation and biosynthesis of benzo[b]fluorene nenestatin A from deep-sea derived <i>Micromonospora echinospora</i> SCSIO 04089. <i>Tetrahedron</i> , 2017, 73, 3585-3590.	1.9	36
17	Elucidating the Cyclization Cascades in Xiamycin Biosynthesis by Substrate Synthesis and Enzyme Characterizations. <i>Organic Letters</i> , 2015, 17, 306-309.	4.6	35
18	Characterization of the flavoenzyme XiaK as an N-hydroxylase and implications in indolosesquiterpene diversification. <i>Chemical Science</i> , 2017, 8, 5067-5077.	7.4	35

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19	Pyrazolofluostatins Aâ€“C, Pyrazole-Fused Benzo[<i>a</i>]fluorenes from South China Sea-Derived <i>Micromonospora rosaria</i> SCSIO N160. <i>Organic Letters</i> , 2017, 19, 592-595.	4.6	34
20	Natural products from mangrove sediments-derived microbes: Structural diversity, bioactivities, biosynthesis, and total synthesis. <i>European Journal of Medicinal Chemistry</i> , 2022, 230, 114117.	5.5	33
21	Characterizing Amosamine Biosynthesis in Amicetin Reveals AmiG as a Reversible Retaining Glycosyltransferase. <i>Journal of the American Chemical Society</i> , 2013, 135, 12152-12155.	13.7	27
22	Functional characterization of the halogenase SpmH and discovery of new deschloro-tryptophan dimers. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1053-1057.	2.8	24
23	Biochemical and Structural Insights into the Aminotransferase CrmG in Caerulomycin Biosynthesis. <i>ACS Chemical Biology</i> , 2016, 11, 943-952.	3.4	23
24	Marine Bacterial Aromatic Polyketides From Host-Dependent Heterologous Expression and Fungal Mode of Cyclization. <i>Frontiers in Chemistry</i> , 2018, 6, 528.	3.6	22
25	Refactoring the Concise Biosynthetic Pathway of Cyanogramide Unveils Spirooxindole Formation Catalyzed by a P450 Enzyme. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14065-14069.	13.8	20
26	Genome mining of cryptic tetronate natural products from a PKS-NRPS encoding gene cluster in <i>Trichoderma harzianum</i> t-22. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1985-1990.	2.8	18
27	Characterization of the sugar-O-methyltransferase LobS1 in lobophorin biosynthesis. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9043-9053.	3.6	17
28	Identification and characterization of a biosynthetic gene cluster for tryptophan dimers in deep sea-derived <i>Streptomyces</i> sp. SCSIO 03032. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6123-6136.	3.6	16
29	<i>S</i> -Bridged Thioether and Structure-Diversified Angucyclinone Derivatives from the South China Sea-Derived <i>Micromonospora echinospora</i> SCSIO 04089. <i>Journal of Natural Products</i> , 2020, 83, 3122-3130.	3.0	16
30	Heterologous Expression Leads to Discovery of Diversified Lobophorin Analogues and a Flexible Glycosyltransferase. <i>Organic Letters</i> , 2020, 22, 1062-1066.	4.6	15
31	Flavoenzyme CrmK-mediated substrate recycling in caerulomycin biosynthesis. <i>Chemical Science</i> , 2016, 7, 4867-4874.	7.4	14
32	Discovery and Biosynthesis of Neoenterocins Indicate a Skeleton Rearrangement of Enterocin. <i>Organic Letters</i> , 2019, 21, 9066-9070.	4.6	13
33	Albumycin, a new isoindolequinone from <i>Streptomyces albus</i> J1074 harboring the fluostatin biosynthetic gene cluster. <i>Journal of Antibiotics</i> , 2019, 72, 311-315.	2.0	13
34	A new uridine derivative and a new indole derivative from the coral-associated actinomycete <i>Pseudonocardia</i> sp. SCSIO 11457. <i>Natural Product Research</i> , 2021, 35, 188-194.	1.8	13
35	Discovery of a new asymmetric dimer nenestatin B and implications of a dimerizing enzyme in a deep sea actinomycete. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4243-4247.	2.8	12
36	Tandem Hydration of Diisonitriles Triggered by Isonitrile Hydratase in <i>Streptomyces thioluteus</i> . <i>Organic Letters</i> , 2018, 20, 3562-3565.	4.6	10

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37	Characterizing Two Cytochrome P450s in Tiacumicin Biosynthesis Reveals Reaction Timing for Tailoring Modifications. <i>Organic Letters</i> , 2019, 21, 7679-7683.	4.6	10
38	Discovery of Stealthin Derivatives and Implication of the Amidotransferase FlsN3 in the Biosynthesis of Nitrogen-Containing Fluostatins. <i>Marine Drugs</i> , 2019, 17, 150.	4.6	10
39	Deciphering Biosynthetic Enzymes Leading to 4-Chloro-6-Methyl-5,7-Dihydroxyphenylglycine, a Non-Proteinogenic Amino Acid in Totopotensamides. <i>ACS Chemical Biology</i> , 2020, 15, 766-773.	3.4	10
40	Heterologous expression of the trichostatin gene cluster and functional characterization of N-methyltransferase TsnB8. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3649-3653.	2.8	9
41	Complete genome sequence of <i>Streptomyces</i> sp. SCSIO 03032 isolated from Indian Ocean sediment, producing diverse bioactive natural products. <i>Marine Genomics</i> , 2021, 55, 100803.	1.1	9
42	Structural studies reveal flexible roof of active site responsible for α -transaminase CrmG overcoming by-product inhibition. <i>Communications Biology</i> , 2020, 3, 455.	4.4	8
43	New piericidin derivatives from the marine-derived <i>Streptomyces</i> sp. SCSIO 40063 with cytotoxic activity. <i>Natural Product Research</i> , 2022, 36, 2458-2464.	1.8	8
44	Antifungal Macrolides Kongjuemycins from Coral-Associated Rare Actinomycete <i>Pseudonocardia kongjuensis</i> SCSIO 11457. <i>Organic Letters</i> , 2022, 24, 3482-3487.	4.6	8
45	Discovery of an Unexpected 1,4-Oxazepine-Linked <i>seco</i> -Fluostatin Heterodimer by Inactivation of the Oxidoreductase-Encoding Gene <i>flsP</i> . <i>Journal of Natural Products</i> , 2021, 84, 2336-2344.	3.0	7
46	Host-dependent heterologous expression of berninamycin gene cluster leads to linear thiopeptide antibiotics. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 8940-8946.	2.8	7
47	Mutation of an atypical oxirane oxyanion hole improves regioselectivity of the $\hat{1}\pm/\hat{1}^2$ -fold epoxide hydrolase Alp1U. <i>Journal of Biological Chemistry</i> , 2020, 295, 16987-16997.	3.4	6
48	Proximicins F and G and Diproximicin A: Aminofurans from the Marine-Derived <i>Verrucosispora</i> sp. SCSIO 40062 by Overexpression of PPTase Genes. <i>Journal of Natural Products</i> , 2020, 83, 1152-1156.	3.0	6
49	Antibacterial phenylspiroadrimanes from the marine-derived fungus <i>Stachybotrys</i> sp. SCSIO 40434. <i>F\ddot{A}-totera\ddot{A}-\ddot{A}c</i> , 2021, 152, 104937.	2.2	5
50	Refactoring the Concise Biosynthetic Pathway of Cyanogramide Unveils Spirooxindole Formation Catalyzed by a P450 Enzyme. <i>Angewandte Chemie</i> , 2020, 132, 14169-14173.	2.0	3
51	A simple and facile iodination method of didechlorotiacumicin B and aromatic compounds. <i>Science China Chemistry</i> , 2021, 64, 1736.	8.2	2
52	A new xanthostatin analogue from the marine sponge-associated actinomycete <i>Streptomyces</i> sp. SCSIO 40064. <i>Natural Product Research</i> , 2022, 36, 3529-3537.	1.8	2