

Yi Tang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163
papers

7,366
citations

51
h-index

80
g-index

186
ext. papers

9,019
ext. citations

12.5
avg, IF

6.26
L-index

#	Paper	IF	Citations
163	Investigating Fungal Biosynthetic Pathways Using Heterologous Gene Expression: <i>Aspergillus nidulans</i> as a Heterologous Host.. <i>Methods in Molecular Biology</i> , 2022 , 2489, 41-52	1.4	0
162	Discovery and characterization of a terpene biosynthetic pathway featuring a norbornene-forming Diels-Alderase.. <i>Nature Communications</i> , 2022 , 13, 2568	17.4	1
161	Biosynthesis of the Immunosuppressant (-)-FR901483. <i>Journal of the American Chemical Society</i> , 2021 , 143, 132-136	16.4	2
160	Catalytic mechanism and endo-to-exo selectivity reversion of an octalin-forming natural Diels-Alderase. <i>Nature Catalysis</i> , 2021 , 4, 223-232	36.5	17
159	Targeted Genome Mining Reveals the Biosynthetic Gene Clusters of Natural Product CYP51 Inhibitors. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6043-6047	16.4	5
158	Biosynthesis of Cyclophane-Containing Hirsutellone Family of Fungal Natural Products. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5605-5609	16.4	7
157	AoiQ Catalyzes Geminal Dichlorination of 1,3-Diketone Natural Products. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7267-7271	16.4	3
156	Total Synthesis of (-)-Strictosidine and Interception of Aryne Natural Product Derivatives "Strictosidyne" and "Strictosamidyne". <i>Journal of the American Chemical Society</i> , 2021 , 143, 7471-7479	16.4	5
155	Harzianic Acid from <i>Is</i> a Natural Product Inhibitor of Acetohydroxyacid Synthase. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	4
154	Heterologous Catalysis of the Final Steps of Tetracycline Biosynthesis by. <i>ACS Chemical Biology</i> , 2021 , 16, 1425-1434	4.9	2
153	Cell-Free Total Biosynthesis of Plant Terpene Natural Products using an Orthogonal Cofactor Regeneration System.. <i>ACS Catalysis</i> , 2021 , 11, 9898-9903	13.1	2
152	Prospecting for natural products by genome mining and microcrystal electron diffraction. <i>Nature Chemical Biology</i> , 2021 , 17, 872-877	11.7	9
151	A Polyketide Cyclase That Forms Medium-Ring Lactones. <i>Journal of the American Chemical Society</i> , 2021 , 143, 80-84	16.4	8
150	Biosynthesis and synthetic biology of psychoactive natural products. <i>Chemical Society Reviews</i> , 2021 , 50, 6950-7008	58.5	7
149	Genome mining of cryptic tetronate natural products from a PKS-NRPS encoding gene cluster in t-22. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 1985-1990	3.9	10
148	Structural basis for the biosynthesis of lovastatin. <i>Nature Communications</i> , 2021 , 12, 867	17.4	14
147	High-Titer Production of Olivetolic Acid and Analogs in Engineered Fungal Host Using a Nonplant Biosynthetic Pathway. <i>ACS Synthetic Biology</i> , 2021 , 10, 2159-2166	5.7	4

146	Biosynthesis of the Fusarium Mycotoxin (-)-Sambutoxin. <i>Organic Letters</i> , 2021 , 23, 7819-7823	6.2	2
145	Biosynthesis of Mycotoxin Fusaric Acid and Application of a PLP-Dependent Enzyme for Chemoenzymatic Synthesis of Substituted l-Pipecolic Acids. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19668-19677	16.4	7
144	Iterative Catalysis in the Biosynthesis of Mitochondrial Complex II Inhibitors Harzianopyridone and Atpenin B. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8550-8554	16.4	17
143	Discovery and Biocatalytic Application of a PLP-Dependent Amino Acid β -Substitution Enzyme That Catalyzes C-C Bond Formation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10506-10515	16.4	10
142	Biosynthesis of Amino Acid Derived β -Pyrones by an NRPS-NRPKS Hybrid Megasyntetase in Fungi. <i>Journal of Natural Products</i> , 2020 , 83, 593-600	4.9	5
141	Enzyme-Catalyzed Azepinoindole Formation in Clavine Alkaloid Biosynthesis. <i>Organic Letters</i> , 2020 , 22, 3302-3306	6.2	6
140	Fungal Highly-Reducing Polyketide Synthases and Associated Natural Products 2020 , 333-364		
139	Genome Mining in Fungi 2020 , 34-49		
138	Recent developments in self-resistance gene directed natural product discovery. <i>Natural Product Reports</i> , 2020 , 37, 879-892	15.1	40
137	Genome Mining of Alkaloidal Terpenoids from a Hybrid Terpene and Nonribosomal Peptide Biosynthetic Pathway. <i>Journal of the American Chemical Society</i> , 2020 , 142, 710-714	16.4	18
136	An enzymatic Alder-ene reaction. <i>Nature</i> , 2020 , 586, 64-69	50.4	14
135	Fungal siderophore biosynthesis catalysed by an iterative nonribosomal peptide synthetase. <i>Chemical Science</i> , 2020 , 11, 11525-11530	9.4	4
134	Concise Biosynthesis of Phenylfuropyridones in Fungi. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19889-19893	16.4	6
133	Engineered Biosynthesis of Fungal 4-Quinolone Natural Products. <i>Organic Letters</i> , 2020 , 22, 6637-6641	6.2	8
132	Concise Biosynthesis of Phenylfuropyridones in Fungi. <i>Angewandte Chemie</i> , 2020 , 132, 20061-20065	3.6	0
131	Biosynthesis of the fungal glyceraldehyde-3-phosphate dehydrogenase inhibitor heptelidic acid and mechanism of self-resistance. <i>Chemical Science</i> , 2020 , 11, 9554-9562	9.4	2
130	Functional and Structural Analyses of β -Methyltransferase in Fungal Polyketide Biosynthesis. <i>Biochemistry</i> , 2019 , 58, 3933-3937	3.2	7
129	Complete Stereo-inversion of l-Tryptophan by a Fungal Single-Module Nonribosomal Peptide Synthetase. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16222-16226	16.4	9

128	The expanding world of biosynthetic pericyclases: cooperation of experiment and theory for discovery. <i>Natural Product Reports</i> , 2019 , 36, 698-713	15.1	52
127	Engineered mitochondrial production of monoterpenes in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2019 , 55, 76-84	9.7	51
126	Production of semi-biosynthetic nepetalactone in yeast. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 1365-1370	4.2	2
125	Structure-guided function discovery of an NRPS-like glycine betaine reductase for choline biosynthesis in fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10348-10353	11.5	12
124	Thioesterase-Catalyzed Aminoacylation and Thiolation of Polyketides in Fungi. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8198-8206	16.4	13
123	Enzyme-Catalyzed Inverse-Electron Demand Diels-Alder Reaction in the Biosynthesis of Antifungal Ilicicolin H. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5659-5663	16.4	46
122	Genome mining and biosynthesis of a polyketide from a biofertilizer fungus that can facilitate reductive iron assimilation in plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5499-5504	11.5	27
121	Genome Mining Reveals <i>Neurospora crassa</i> Can Produce the Salicylaldehyde Sordarial. <i>Journal of Natural Products</i> , 2019 , 82, 1029-1033	4.9	15
120	Structural basis for stereoselective dehydration and hydrogen-bonding catalysis by the SAM-dependent pericyclase LepI. <i>Nature Chemistry</i> , 2019 , 11, 812-820	17.6	24
119	Therapeutic approaches to treat human spliceosomal diseases. <i>Current Opinion in Biotechnology</i> , 2019 , 60, 72-81	11.4	8
118	Fungal Highly Reducing Polyketide Synthases Biosynthesize Salicylaldehydes That Are Precursors to Epoxycyclohexenol Natural Products. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19538-19541	16.4	24
117	Engineering <i>Saccharomyces cerevisiae</i> for production of simvastatin. <i>Metabolic Engineering</i> , 2019 , 51, 1-8	9.7	22
116	Genome-Mined Diels-Alderase Catalyzes Formation of the cis-Octahydrodecalins of Varicidin A and B. <i>Journal of the American Chemical Society</i> , 2019 , 141, 769-773	16.4	41
115	HEX: A heterologous expression platform for the discovery of fungal natural products. <i>Science Advances</i> , 2018 , 4, eaar5459	14.3	106
114	Genome Mining and Assembly-Line Biosynthesis of the UCS1025A Pyrrolizidinone Family of Fungal Alkaloids. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2067-2071	16.4	47
113	Biosynthesis of Long-Chain N-Acyl Amide by a Truncated Polyketide Synthase-Nonribosomal Peptide Synthetase Hybrid Megasynthase in Fungi. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1271-1274	16.4	19
112	Eight Kinetically Stable but Thermodynamically Activated Molecules that Power Cell Metabolism. <i>Chemical Reviews</i> , 2018 , 118, 1460-1494	68.1	89
111	Resistance-gene-directed discovery of a natural-product herbicide with a new mode of action. <i>Nature</i> , 2018 , 559, 415-418	50.4	108

110	Enzymatic one-step ring contraction for quinolone biosynthesis. <i>Nature Communications</i> , 2018 , 9, 2826	17.4	11
109	Biosynthesis of Heptacyclic Duclauxins Requires Extensive Redox Modifications of the Phenalenone Aromatic Polyketide. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6991-6997	16.4	24
108	Identification of the Pyranonigrin A Biosynthetic Gene Cluster by Genome Mining in IBT 5891. <i>AIChE Journal</i> , 2018 , 64, 4182-4186	3.6	15
107	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. <i>ACS Central Science</i> , 2018 , 4, 1727-1741	16.8	26
106	Biotransformation and biosynthesis of natural products. <i>Journal of Asian Natural Products Research</i> , 2018 , 20, 593-594	1.5	
105	The impact and prospect of natural product discovery in agriculture: New technologies to explore the diversity of secondary metabolites in plants and microorganisms for applications in agriculture. <i>EMBO Reports</i> , 2018 , 19,	6.5	18
104	Synthesis of 8-Hydroxygeraniol. <i>Journal of Organic Chemistry</i> , 2018 , 83, 11323-11326	4.2	7
103	Enzyme-catalyzed cationic epoxide rearrangements in quinolone alkaloid biosynthesis. <i>Nature Chemical Biology</i> , 2017 , 13, 325-332	11.7	28
102	Enzyme-Catalyzed Intramolecular Enantioselective Hydroalkoxylation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3639-3642	16.4	14
101	Identification and Heterologous Production of a Benzoyl-Primed Tricarboxylic Acid Polyketide Intermediate from the Zaragozaic Acid A Biosynthetic Pathway. <i>Organic Letters</i> , 2017 , 19, 3560-3563	6.2	44
100	Reversible Product Release and Recapture by a Fungal Polyketide Synthase Using a Carnitine Acyltransferase Domain. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9556-9560	16.4	9
99	Collaborative Biosynthesis of Maleimide- and Succinimide-Containing Natural Products by Fungal Polyketide Megasyntases. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5317-5320	16.4	40
98	A Cascade of Redox Reactions Generates Complexity in the Biosynthesis of the Protein Phosphatase-2 Inhibitor Rubratoxin A. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4782-4786	16.4	20
97	A Cascade of Redox Reactions Generates Complexity in the Biosynthesis of the Protein Phosphatase-2 Inhibitor Rubratoxin A. <i>Angewandte Chemie</i> , 2017 , 129, 4860-4864	3.6	4
96	Oxidative Cyclization in Natural Product Biosynthesis. <i>Chemical Reviews</i> , 2017 , 117, 5226-5333	68.1	191
95	Late-Stage Terpene Cyclization by an Integral Membrane Cyclase in the Biosynthesis of Isoprenoid Epoxycyclohexenone Natural Products. <i>Organic Letters</i> , 2017 , 19, 5376-5379	6.2	28
94	Engineering the biocatalytic selectivity of iridoid production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2017 , 44, 117-125	9.7	26
93	SAM-dependent enzyme-catalysed pericyclic reactions in natural product biosynthesis. <i>Nature</i> , 2017 , 549, 502-506	50.4	108

92	Reversible Product Release and Recapture by a Fungal Polyketide Synthase Using a Carnitine Acyltransferase Domain. <i>Angewandte Chemie</i> , 2017 , 129, 9684-9688	3.6	2
91	Characterization of 2-Oxindole Forming Heme Enzyme MarE, Expanding the Functional Diversity of the Tryptophan Dioxygenase Superfamily. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11887-11894	16.4	21
90	Biochemical Characterization of a Eukaryotic Decalin-Forming Diels-Alderase. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15837-15840	16.4	71
89	Structural basis of nonribosomal peptide macrocyclization in fungi. <i>Nature Chemical Biology</i> , 2016 , 12, 1001-1003	11.7	43
88	Oxidative trans to cis Isomerization of Olefins in Polyketide Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6207-10	16.4	16
87	Mechanism of the P450-Catalyzed Oxidative Cyclization in the Biosynthesis of Griseofulvin. <i>ACS Catalysis</i> , 2016 , 6, 4506-4511	13.1	49
86	Production of New Cladosporin Analogues by Reconstitution of the Polyketide Synthases Responsible for the Biosynthesis of this Antimalarial Agent. <i>Angewandte Chemie</i> , 2016 , 128, 674-678	3.6	5
85	Production of New Cladosporin Analogues by Reconstitution of the Polyketide Synthases Responsible for the Biosynthesis of this Antimalarial Agent. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 664-8	16.4	32
84	Phenalenone Polyketide Cyclization Catalyzed by Fungal Polyketide Synthase and Flavin-Dependent Monooxygenase. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4249-59	16.4	28
83	Technology development for natural product biosynthesis in <i>Saccharomyces cerevisiae</i> . <i>Current Opinion in Biotechnology</i> , 2016 , 42, 74-83	11.4	37
82	<i>Saccharomyces cerevisiae</i> as a tool for mining, studying and engineering fungal polyketide synthases. <i>Fungal Genetics and Biology</i> , 2016 , 89, 52-61	3.9	35
81	Combinatorial Generation of Chemical Diversity by Redox Enzymes in Chaetoviridin Biosynthesis. <i>Organic Letters</i> , 2016 , 18, 1446-9	6.2	28
80	P450-Mediated Coupling of Indole Fragments To Forge Communesin and Unnatural Isomers. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4002-5	16.4	42
79	Biosynthesis of the Nitro-containing cyclic tripeptide psychrophilin. <i>Journal of Antibiotics</i> , 2016 , 69, 571-3	3.7	6
78	Reconstitution of Fungal Nonribosomal Peptide Synthetases in Yeast and In Vitro. <i>Methods in Molecular Biology</i> , 2016 , 1401, 103-19	1.4	5
77	Biosynthesis of Strained Piperazine Alkaloids: Uncovering the Concise Pathway of Herquiline A. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13529-13532	16.4	26
76	Coordinated and Iterative Enzyme Catalysis in Fungal Polyketide Biosynthesis. <i>ACS Catalysis</i> , 2016 , 6, 5935-5945	13.1	16
75	Elucidation of the Concise Biosynthetic Pathway of the Communesin Indole Alkaloids. <i>Angewandte Chemie</i> , 2015 , 127, 3047-3050	3.6	12

74	Biochemical and Structural Basis for Controlling Chemical Modularity in Fungal Polyketide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9885-93	16.4	44
73	Tandem prenyltransferases catalyze isoprenoid elongation and complexity generation in biosynthesis of quinolone alkaloids. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4980-3	16.4	41
72	Transcriptional regulation of the daptomycin gene cluster in <i>Streptomyces roseosporus</i> by an autoregulator, AtrA. <i>Journal of Biological Chemistry</i> , 2015 , 290, 7992-8001	5.4	48
71	Discovery of Unclustered Fungal Indole Diterpene Biosynthetic Pathways through Combinatorial Pathway Reassembly in Engineered Yeast. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13724-7	16.4	64
70	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015 , 11, 625-31	11.7	498
69	Efficient Biosynthesis of Fungal Polyketides Containing the Dioxabicyclo-octane Ring System. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11904-7	16.4	64
68	Identification and Biosynthetic Characterization of Natural Aromatic Azoxy Products from <i>Streptomyces chattanoogensis</i> L10. <i>Organic Letters</i> , 2015 , 17, 6114-7	6.2	19
67	Epigenetic genome mining of an endophytic fungus leads to the pleiotropic biosynthesis of natural products. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7592-6	16.4	57
66	Involvement of Lipocalin-like CghA in Decalin-Forming Stereoselective Intramolecular [4+2] Cycloaddition. <i>ChemBioChem</i> , 2015 , 16, 2294-8	3.8	64
65	Comparison of 10,11-Dehydrocurvularin Polyketide Synthases from <i>Alternaria cinerariae</i> and <i>Aspergillus terreus</i> Highlights Key Structural Motifs. <i>ChemBioChem</i> , 2015 , 16, 2479-83	3.8	8
64	Epigenetic Genome Mining of an Endophytic Fungus Leads to the Pleiotropic Biosynthesis of Natural Products. <i>Angewandte Chemie</i> , 2015 , 127, 7702-7706	3.6	4
63	Understanding Programming of Fungal Iterative Polyketide Synthases: The Biochemical Basis for Regioselectivity by the Methyltransferase Domain in the Lovastatin Megasyntase. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15688-91	16.4	39
62	Origins of stereoselectivity in evolved ketoreductases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E7065-72	11.5	76
61	Elucidation of the concise biosynthetic pathway of the communesin indole alkaloids. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3004-7	16.4	68
60	The role of distant mutations and allosteric regulation on LovD active site dynamics. <i>Nature Chemical Biology</i> , 2014 , 10, 431-6	11.7	132
59	A carbonate-forming Baeyer-Villiger monooxygenase. <i>Nature Chemical Biology</i> , 2014 , 10, 552-4	11.7	63
58	Natural products: Getting a handle on peptides. <i>Nature Chemistry</i> , 2014 , 6, 1037-8	17.6	1
57	Elucidation of pseurotin biosynthetic pathway points to trans-acting C-methyltransferase: generation of chemical diversity. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8475-9	16.4	44

56	Fungal polyketide synthase product chain-length control by partnering thiohydrolase. <i>ACS Chemical Biology</i> , 2014 , 9, 1576-86	4.9	45
55	Biosynthesis of fungal indole alkaloids. <i>Natural Product Reports</i> , 2014 , 31, 1474-87	15.1	121
54	Generation of complexity in fungal terpene biosynthesis: discovery of a multifunctional cytochrome P450 in the fumagillin pathway. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4426-36	16.4	68
53	Next-generation sequencing approach for connecting secondary metabolites to biosynthetic gene clusters in fungi. <i>Frontiers in Microbiology</i> , 2014 , 5, 774	5.7	55
52	Methylation-dependent acyl transfer between polyketide synthase and nonribosomal peptide synthetase modules in fungal natural product biosynthesis. <i>Organic Letters</i> , 2014 , 16, 6390-3	6.2	25
51	C-glycosylation of anhydrotetracycline scaffold with SsfS6 from the SF2575 biosynthetic pathway. <i>Journal of Antibiotics</i> , 2014 , 67, 65-70	3.7	15
50	Proteasome involvement in a complex cascade mediating SigT degradation during differentiation of <i>Streptomyces coelicolor</i> . <i>FEBS Letters</i> , 2014 , 588, 608-13	3.8	7
49	Expanding the structural diversity of polyketides by exploring the cofactor tolerance of an inline methyltransferase domain. <i>Organic Letters</i> , 2013 , 15, 3774-7	6.2	44
48	EcdGHK are three tailoring iron oxygenases for amino acid building blocks of the echinocandin scaffold. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4457-66	16.4	56
47	Complexity generation in fungal polyketide biosynthesis: a spirocycle-forming P450 in the concise pathway to the antifungal drug griseofulvin. <i>ACS Chemical Biology</i> , 2013 , 8, 2322-30	4.9	67
46	An iterative, bimodular nonribosomal peptide synthetase that converts anthranilate and tryptophan into tetracyclic asperlicins. <i>Chemistry and Biology</i> , 2013 , 20, 870-8		17
45	A cytochrome P450 serves as an unexpected terpene cyclase during fungal meroterpenoid biosynthesis. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16805-8	16.4	51
44	Genome mining of a prenylated and immunosuppressive polyketide from pathogenic fungi. <i>Organic Letters</i> , 2013 , 15, 780-3	6.2	64
43	LovG: The Thioesterase Required for Dihydromonacolin L Release and Lovastatin Nonaketide Synthase Turnover in Lovastatin Biosynthesis. <i>Angewandte Chemie</i> , 2013 , 125, 6600-6603	3.6	8
42	The fumagillin biosynthetic gene cluster in <i>Aspergillus fumigatus</i> encodes a cryptic terpene cyclase involved in the formation of Etrans-bergamotene. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4616-9	16.4	123
41	Uncovering the enzymes that catalyze the final steps in oxytetracycline biosynthesis. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7138-41	16.4	61
40	LovG: the thioesterase required for dihydromonacolin L release and lovastatin nonaketide synthase turnover in lovastatin biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6472-5	16.4	80
39	Short pathways to complexity generation: fungal peptidyl alkaloid multicyclic scaffolds from anthranilate building blocks. <i>ACS Chemical Biology</i> , 2013 , 8, 1366-82	4.9	57

38	Investigation of fungal iterative polyketide synthase functions using partially assembled intermediates. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1735-8	16.4	39
37	Discovery of cryptic polyketide metabolites from dermatophytes using heterologous expression in <i>Aspergillus nidulans</i> . <i>ACS Synthetic Biology</i> , 2013 , 2, 629-34	5.7	77
36	Completing our understanding of tetracycline biosynthesis: the enzymatic basis of the F420-dependent final reduction step.. <i>FASEB Journal</i> , 2013 , 27, 788.1	0.9	
35	Heterologous Expression and Manipulation of Three Tetracycline Biosynthetic Pathways. <i>Angewandte Chemie</i> , 2012 , 124, 11298-11302	3.6	6
34	Heterologous expression and manipulation of three tetracycline biosynthetic pathways. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11136-40	16.4	36
33	Characterization of a silent azaphilone gene cluster from <i>Aspergillus niger</i> ATCC 1015 reveals a hydroxylation-mediated pyran-ring formation. <i>Chemistry and Biology</i> , 2012 , 19, 1049-59		117
32	Assembly of asperlicin peptidyl alkaloids from anthranilate and tryptophan: a two-enzyme pathway generates heptacyclic scaffold complexity in asperlicin E. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17444-7	16.4	40
31	Navigating the fungal polyketide chemical space: from genes to molecules. <i>Journal of Organic Chemistry</i> , 2012 , 77, 9933-53	4.2	185
30	Discovery and characterization of a group of fungal polycyclic polyketide prenyltransferases. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9428-37	16.4	48
29	Identification and characterization of the chaetoviridin and chaetomugilin gene cluster in <i>Chaetomium globosum</i> reveal dual functions of an iterative highly-reducing polyketide synthase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17900-3	16.4	73
28	A fungal ketoreductase domain that displays substrate-dependent stereospecificity. <i>Nature Chemical Biology</i> , 2012 , 8, 331-3	11.7	67
27	Cyclization of fungal nonribosomal peptides by a terminal condensation-like domain. <i>Nature Chemical Biology</i> , 2012 , 8, 823-30	11.7	126
26	Identification and characterization of the echinocandin B biosynthetic gene cluster from <i>Emericella rugulosa</i> NRRL 11440. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16781-90	16.4	93
25	Crystal structure and biochemical studies of the trans-acting polyketide enoyl reductase LovC from lovastatin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11144-9	11.5	68
24	Fungal indole alkaloid biosynthesis: genetic and biochemical investigation of the tryptoquialanine pathway in <i>Penicillium aethiopicum</i> . <i>Journal of the American Chemical Society</i> , 2011 , 133, 2729-41	16.4	110
23	Metabolic engineering for the production of natural products. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011 , 2, 211-36	8.9	219
22	Identification and engineering of the cytochalasin gene cluster from <i>Aspergillus clavatus</i> NRRL 1. <i>Metabolic Engineering</i> , 2011 , 13, 723-32	9.7	98
21	Complexity generation in fungal peptidyl alkaloid biosynthesis: oxidation of fumiquinazoline A to the heptacyclic hemiaminal fumiquinazoline C by the flavoenzyme Af12070 from <i>Aspergillus fumigatus</i> . <i>Biochemistry</i> , 2011 , 50, 8756-69	3.2	49

20	Comparative characterization of fungal anthracenone and naphthacenedione biosynthetic pathways reveals an hydroxylation-dependent Claisen-like cyclization catalyzed by a dimanganese thioesterase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15773-85	16.4	70
19	Genetic characterization of enzymes involved in the priming steps of oxytetracycline biosynthesis in <i>Streptomyces rimosus</i> . <i>Microbiology (United Kingdom)</i> , 2011 , 157, 2401-2409	2.9	14
18	Insights into radical biosynthesis via heterologous synthesis of intermediates and analogs. <i>Journal of Biological Chemistry</i> , 2010 , 285, 41412-21	5.4	82
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