Yit-Heng Chooi

List of Publications by Year
in descending order

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81	5,388	101384	91712
papers	citations	36 h-index	69 g-index

103	103	103	5413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	3.9	715
2	clinker & clustermap.js: automatic generation of gene cluster comparison figures. Bioinformatics, 2021, 37, 2473-2475.	1.8	552
3	Metabolic Engineering for the Production of Natural Products. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 211-236.	3.3	255
4	Navigating the Fungal Polyketide Chemical Space: From Genes to Molecules. Journal of Organic Chemistry, 2012, 77, 9933-9953.	1.7	223
5	Identification of the Viridicatumtoxin and Griseofulvin Gene Clusters from Penicillium aethiopicum. Chemistry and Biology, 2010, 17, 483-494.	6.2	168
6	The Fumagillin Biosynthetic Gene Cluster in Aspergillus fumigatus Encodes a Cryptic Terpene Cyclase Involved in the Formation of Î²-trans-Bergamotene. Journal of the American Chemical Society, 2013, 135, 4616-4619.	6.6	159
7	Characterization of a Silent Azaphilone Gene Cluster from Aspergillus niger ATCC 1015 Reveals a Hydroxylation-Mediated Pyran-Ring Formation. Chemistry and Biology, 2012, 19, 1049-1059.	6.2	148
8	Fungal Indole Alkaloid Biosynthesis: Genetic and Biochemical Investigation of the Tryptoquialanine Pathway in Penicillium aethiopicum. Journal of the American Chemical Society, 2011, 133, 2729-2741.	6.6	140
9	Identification and Characterization of the Echinocandin B Biosynthetic Gene Cluster from Emericella rugulosa NRRL 11440. Journal of the American Chemical Society, 2012, 134, 16781-16790.	6.6	123
10	Identification and engineering of the cytochalasin gene cluster from Aspergillus clavatus NRRL 1. Metabolic Engineering, 2011, 13, 723-732.	3.6	119
11	cblaster: a remote search tool for rapid identification and visualization of homologous gene clusters. Bioinformatics Advances, 2021, 1, .	0.9	101
12	LovG: The Thioesterase Required for Dihydromonacolinâ€…L Release and Lovastatin Nonaketide Synthase Turnover in Lovastatin Biosynthesis. Angewandte Chemie - International Edition, 2013, 52, 6472-6475.	7.2	100
13	Discovery of Cryptic Polyketide Metabolites from Dermatophytes Using Heterologous Expression in Aspergillus nidulans. ACS Synthetic Biology, 2013, 2, 629-634.	1.9	99
14	Elucidation of the Concise Biosynthetic Pathway of the Communesin Indole Alkaloids. Angewandte Chemie - International Edition, 2015, 54, 3004-3007.	7.2	94
15	Fungal Planet description sheets: 1042â€“1111. Persoonia: Molecular Phylogeny and Evolution of Fungi, 2020, 44, 301-459.	1.6	91
16	Efficient Biosynthesis of Fungal Polyketides Containing the Dioxabicyclo-octane Ring System. Journal of the American Chemical Society, 2015, 137, 11904-11907.	6.6	90
17	Genome Mining of a Prenylated and Immunosuppressive Polyketide from Pathogenic Fungi. Organic Letters, 2013, 15, 780-783.	2.4	89
18	Generation of Complexity in Fungal Terpene Biosynthesis: Discovery of a Multifunctional Cytochrome P450 in the Fumagillin Pathway. Journal of the American Chemical Society, 2014, 136, 4426-4436.	6.6	87

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19	Complexity Generation in Fungal Polyketide Biosynthesis: A Spirocycle-Forming P450 in the Concise Pathway to the Antifungal Drug Griseofulvin. ACS Chemical Biology, 2013, 8, 2322-2330.	1.6	85
20	Comparative Characterization of Fungal Anthracenone and Naphthacenedione Biosynthetic Pathways Reveals an Î±-Hydroxylation-Dependent Claisen-like Cyclization Catalyzed by a Dimanganese Thioesterase. Journal of the American Chemical Society, 2011, 133, 15773-15785.	6.6	81
21	Involvement of Lipocalinâ€like CghA in Decalinâ€Forming Stereoselective Intramolecular [4+2] Cycloaddition. ChemBioChem, 2015, 16, 2294-2298.	1.3	80
22	Next-generation sequencing approach for connecting secondary metabolites to biosynthetic gene clusters in fungi. Frontiers in Microbiology, 2015, 5, 774.	1.5	80
23	Epigenetic Genome Mining of an Endophytic Fungus Leads to the Pleiotropic Biosynthesis of Natural Products. Angewandte Chemie - International Edition, 2015, 54, 7592-7596.	7.2	76
24	Identification and Heterologous Production of a Benzoyl-Primed Tricarboxylic Acid Polyketide Intermediate from the Zaragozic Acid A Biosynthetic Pathway. Organic Letters, 2017, 19, 3560-3563.	2.4	72
25	Heterologous biosynthesis of elsinochrome A sheds light on the formation of the photosensitive perylenequinone system. Chemical Science, 2019, 10, 1457-1465.	3.7	68
26	A Cytochrome P450 Serves as an Unexpected Terpene Cyclase during Fungal Meroterpenoid Biosynthesis. Journal of the American Chemical Society, 2013, 135, 16805-16808.	6.6	65
27	The genome of the Tiger Milk mushroom, Lignosus rhinocerotis, provides insights into the genetic basis of its medicinal properties. BMC Genomics, 2014, 15, 635.	1.2	65
28	Fungal Polyketide Synthase Product Chain-Length Control by Partnering Thiohydrolase. ACS Chemical Biology, 2014, 9, 1576-1586.	1.6	54
29	An In Planta -Expressed Polyketide Synthase Produces (R)-Mellein in the Wheat Pathogen Parastagonospora nodorum. Applied and Environmental Microbiology, 2015, 81, 177-186.	1.4	54
30	Discovery and Heterologous Biosynthesis of the Burnettramic Acids: Rare PKS-NRPS-Derived Bolaamphiphilic Pyrrolizidinediones from an Australian Fungus, Aspergillus burnettii. Organic Letters, 2019, 21, 1287-1291.	2.4	54
31	Cloning and sequence characterization of a non-reducing polyketide synthase gene from the lichen Xanthoparmelia semiviridis. Mycological Research, 2008, 112, 147-161.	2.5	53
32	Discovery and Characterization of a Group of Fungal Polycyclic Polyketide Prenyltransferases. Journal of the American Chemical Society, 2012, 134, 9428-9437.	6.6	52
33	The past, present and future of secondary metabolite research in the <scp>D</scp>othideomycetes. Molecular Plant Pathology, 2015, 16, 92-107.	2.0	49
34	CRISPR-Mediated Activation of Biosynthetic Gene Clusters for Bioactive Molecule Discovery in Filamentous Fungi. ACS Synthetic Biology, 2020, 9, 1843-1854.	1.9	47
35	Victorin, the host-selective cyclic peptide toxin from the oat pathogen Cochliobolus victoriae , is ribosomally encoded. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24243-24250.	3.3	41
36	Adding the Lipo to Lipopeptides: Do More with Less. Chemistry and Biology, 2010, 17, 791-793.	6.2	40

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37	Heterologous expression of cytotoxic sesquiterpenoids from the medicinal mushroom Lignosus rhinocerotis in yeast. Microbial Cell Factories, 2017, 16, 103.	1.9	40
38	Elucidation of Piericidin A1 Biosynthetic Locus Revealed a Thioesterase-Dependent Mechanism of Î±-Pyridone Ring Formation. Chemistry and Biology, 2012, 19, 243-253.	6.2	38
39	Functional genomicsâ€guided discovery of a lightâ€activated phytotoxin in the wheat pathogen Parastagonospora nodorum via pathway activation. Environmental Microbiology, 2017, 19, 1975-1986.	1.8	38
40	Biosynthesis of a New Benzazepine Alkaloid Nanangelenin A from Aspergillus nanangensis Involves an Unusual <scp>l</scp>-Kynurenine-Incorporating NRPS Catalyzing Regioselective Lactamization. Journal of the American Chemical Society, 2020, 142, 7145-7152.	6.6	35
41	Aspergillus hancockii sp. nov., a biosynthetically talented fungus endemic to southeastern Australian soils. PLoS ONE, 2017, 12, e0170254.	1.1	35
42	Characterization of the Suillus grevillei Quinone Synthetase GreA Supports a Nonribosomal Code for Aromatic Î±â€keto Acids. ChemBioChem, 2012, 13, 1798-1804.	1.3	34
43	Biosynthesis of bioactive natural products from Basidiomycota. Organic and Biomolecular Chemistry, 2019, 17, 1027-1036.	1.5	34
44	Fungal Dirigent Protein Controls the Stereoselectivity of Multicopper Oxidase-Catalyzed Phenol Coupling in Viriditoxin Biosynthesis. Journal of the American Chemical Society, 2019, 141, 8068-8072.	6.6	34
45	Functional redundancy of necrotrophic effectors â€“ consequences for exploitation for breeding. Frontiers in Plant Science, 2015, 6, 501.	1.7	33
46	A Multifunctional Monooxygenase XanO4 Catalyzes Xanthone Formation in Xantholipin Biosynthesis via a Cryptic Demethoxylation. Cell Chemical Biology, 2016, 23, 508-516.	2.5	31
47	Chemical Ecogenomics-Guided Discovery of Phytotoxic Î±-Pyrones from the Fungal Wheat Pathogen Parastagonospora nodorum. Organic Letters, 2018, 20, 6148-6152.	2.4	30
48	A chemical ecogenomics approach to understand the roles of secondary metabolites in fungal cereal pathogens. Frontiers in Microbiology, 2014, 5, 640.	1.5	29
49	SnPKS19 Encodes the Polyketide Synthase for Alternariol Mycotoxin Biosynthesis in the Wheat Pathogen Parastagonospora nodorum. Applied and Environmental Microbiology, 2015, 81, 5309-5317.	1.4	27
50	The fungal gene cluster for biosynthesis of the antibacterial agent viriditoxin. Fungal Biology and Biotechnology, 2019, 6, 2.	2.5	26
51	Biosynthesis of the pyrrolidine protein synthesis inhibitor anisomycin involves novel gene ensemble and cryptic biosynthetic steps. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4135-4140.	3.3	25
52	A genome-wide survey of the secondary metabolite biosynthesis genes in the wheat pathogenParastagonospora nodorum. Mycology, 2014, 5, 192-206.	2.0	24
53	Genomics-Driven Discovery of Phytotoxic Cytochalasans Involved in the Virulence of the Wheat Pathogen Parastagonospora nodorum. ACS Chemical Biology, 2020, 15, 226-233.	1.6	24
54	Hancockiamides: phenylpropanoid piperazines from Aspergillus hancockii are biosynthesised by a versatile dual single-module NRPS pathway. Organic and Biomolecular Chemistry, 2021, 19, 587-595.	1.5	24

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55	Panning for gold in mould: can we increase the odds for fungal genome mining?. Organic and Biomolecular Chemistry, 2018, 16, 1620-1626.	1.5	23
56	Acquisition and Loss of Secondary Metabolites Shaped the Evolutionary Path of Three Emerging Phytopathogens of Wheat. Genome Biology and Evolution, 2019, 11, 890-905.	1.1	22
57	Nanangenines: drimane sesquiterpenoids as the dominant metabolite cohort of a novel Australian fungus, Aspergillus nanangensis. Beilstein Journal of Organic Chemistry, 2019, 15, 2631-2643.	1.3	22
58	Comprehensive chemotaxonomic and genomic profiling of a biosynthetically talented Australian fungus, Aspergillus burnettii sp. nov.. Fungal Genetics and Biology, 2020, 143, 103435.	0.9	19
59	Genetic characterization of enzymes involved in the priming steps of oxytetracycline biosynthesis in Streptomyces rimosus. Microbiology (United Kingdom), 2011, 157, 2401-2409.	0.7	18
60	Elucidation of the Concise Biosynthetic Pathway of the Communesin Indole Alkaloids. Angewandte Chemie, 2015, 127, 3047-3050.	1.6	18
61	Transcriptome Analysis Revealed Highly Expressed Genes Encoding Secondary Metabolite Pathways and Small Cysteine-Rich Proteins in the Sclerotium of Lignosus rhinocerotis. PLoS ONE, 2015, 10, e0143549.	1.1	17
62	Bipolenins Kâ€“N: New sesquiterpenoids from the fungal plant pathogen Bipolaris sorokiniana. Beilstein Journal of Organic Chemistry, 2019, 15, 2020-2028.	1.3	17
63	Out for a RiPP: challenges and advances in genome mining of ribosomal peptides from fungi. Natural Product Reports, 2022, 39, 222-230.	5.2	15
64	The global regulator of pathogenesis PnCon7 positively regulates Tox3 effector gene expression through direct interaction in the wheat pathogen Parastagonospora nodorum. Molecular Microbiology, 2018, 109, 78-90.	1.2	13
65	The identification and deletion of the polyketide synthaseâ€nonribosomal peptide synthase gene responsible for the production of the phytotoxic triticone A/B in the wheat fungal pathogen Pyrenophora triticiâ€repentis. Environmental Microbiology, 2019, 21, 4875-4886.	1.8	12
66	Polyketides produced by the entomopathogenic fungus Metarhizium anisopliae induce Candida albicans growth. Fungal Genetics and Biology, 2021, 152, 103568.	0.9	10
67	LovG: The Thioesterase Required for Dihydromonacolinâ€…L Release and Lovastatin Nonaketide Synthase Turnover in Lovastatin Biosynthesis. Angewandte Chemie, 2013, 125, 6600-6603.	1.6	9
68	Cre/lox-Mediated Chromosomal Integration of Biosynthetic Gene Clusters for Heterologous Expression in Aspergillus nidulans. ACS Synthetic Biology, 2022, 11, 1186-1195.	1.9	9
69	Conglobatins Bâ€“E: cytotoxic analogues of the C2-symmetric macrodiolide conglobatin. Journal of Antibiotics, 2020, 73, 756-765.	1.0	8
70	Chlorinated metabolites from Streptomyces sp. highlight the role of biosynthetic mosaics and superclusters in the evolution of chemical diversity. Organic and Biomolecular Chemistry, 2021, 19, 6147-6159.	1.5	8
71	Characterisation and heterologous biosynthesis of burnettiene A, a new polyene-decalin polyketide from Aspergillus burnettii. Organic and Biomolecular Chemistry, 2021, 19, 9506-9513.	1.5	8
72	Biosynthesis of a Tricyclo[6.2.2.0^{2,7}]dodecane System by a Berberine Bridge Enzymeâ€Like Aldolase. Chemistry - A European Journal, 2019, 25, 15062-15066.	1.7	7

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73	Fungal Polyketide-Nonribosomal Peptide Synthetases and Their Associated Natural Products. , 2020, , 415-444.		6
74	Volatile Molecules Secreted by the Wheat Pathogen Parastagonospora nodorum Are Involved in Development and Phytotoxicity. Frontiers in Microbiology, 2020, 11, 466.	1.5	6
75	Genome Mining of Aspergillus hancockii Unearths Cryptic Polyketide Hancockinone A Featuring a Prenylated 6/6/6/5 Carbocyclic Skeleton. Organic Letters, 2021, 23, 8789-8793.	2.4	6
76	Synthaser: a CD-Search enabled Python toolkit for analysing domain architecture of fungal secondary metabolite megasynth(et)ases. Fungal Biology and Biotechnology, 2021, 8, 13.	2.5	6
77	Three Recently Diverging Duplicated Methyltransferases Exhibit Substrate-Dependent Regioselectivity Essential for Xantholipin Biosynthesis. ACS Chemical Biology, 2020, 15, 2107-2115.	1.6	5
78	Discovery of brevijanazines from Aspergillus brevijanus reveals the molecular basis for p-nitrobenzoic acid in fungi. Chemical Communications, 2022, 58, 6296-6299.	2.2	5
79	Intra-hemocoel injection of pseurotin A from Metarhizium anisopliae, induces dose-dependent reversible paralysis in the Greater Wax Moth (Galleria mellonella). Fungal Genetics and Biology, 2022, 159, 103675.	0.9	4
80	Heterologous Expression of Fungal Biosynthetic Pathways in Aspergillus nidulans Using Episomal Vectors. Methods in Molecular Biology, 2022, 2489, 75-92.	0.4	2
81	RiPP-ing through the plant kingdom. Nature Chemical Biology, 2022, 18, 2-3.	3.9	1