

Christopher N Boddy

List of Publications by Year in descending order

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70
papers

3,154
citations

218677

26
h-index

168389

53
g-index

78
all docs

78
docs citations

78
times ranked

3723
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry, Biology, and Medicine of the Glycopeptide Antibiotics. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2096-2152.	13.8	664
2	Portable, On-Demand Biomolecular Manufacturing. <i>Cell</i> , 2016, 167, 248-259.e12.	28.9	292
3	Total biosynthesis of antitumor nonribosomal peptides in <i>Escherichia coli</i> . , 2006, 2, 423-428.		194
4	Polyketide synthase and non-ribosomal peptide synthetase thioesterase selectivity: logic gate or a victim of fate?. <i>Natural Product Reports</i> , 2016, 33, 183-202.	10.3	131
5	ClusterMine360: a database of microbial PKS/NRPS biosynthesis. <i>Nucleic Acids Research</i> , 2012, 41, D402-D407.	14.5	113
6	Atropselective Macrocyclization of Diaryl Ether Ring Systems: Application to the Synthesis of Vancomycin Model Systems. <i>Journal of the American Chemical Society</i> , 2002, 124, 10451-10455.	13.7	96
7	Epothilone C Macrolactonization and Hydrolysis Are Catalyzed by the Isolated Thioesterase Domain of Epothilone Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2003, 125, 3428-3429.	13.7	80
8	Trapping biosynthetic acyl-enzyme intermediates with encoded 2,3-diaminopropionic acid. <i>Nature</i> , 2019, 565, 112-117.	27.8	78
9	Total Synthesis of Crystalline (+,-)-Fredericamycin A. Use of Radical Spirocyclization. <i>Journal of the American Chemical Society</i> , 1994, 116, 11275-11286.	13.7	73
10	Bioinformatics tools for genome mining of polyketide and non-ribosomal peptides. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 443-450.	3.0	72
11	Understanding Substrate Specificity of Polyketide Synthase Modules by Generating Hybrid Multimodular Synthases. <i>Journal of Biological Chemistry</i> , 2003, 278, 42020-42026.	3.4	65
12	Precursor-Directed Biosynthesis of Epothilone in <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2004, 126, 7436-7437.	13.7	60
13	Alternative Sigma Factor Over-Expression Enables Heterologous Expression of a Type II Polyketide Biosynthetic Pathway in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2013, 8, e64858.	2.5	53
14	Behind Enemy Lines. <i>Scientific American</i> , 2001, 284, 54-61.	1.0	52
15	Land Use Intensity Controls Actinobacterial Community Structure. <i>Microbial Ecology</i> , 2011, 61, 286-302.	2.8	52
16	Process Improvements for the Manufacture of Tenofovir Disoproxil Fumarate at Commercial Scale. <i>Organic Process Research and Development</i> , 2010, 14, 1194-1201.	2.7	47
17	A Thioesterase from an Iterative Fungal Polyketide Synthase Shows Macrocyclization and Cross Coupling Activity and May Play a Role in Controlling Iterative Cycling through Product Offloading. <i>Biochemistry</i> , 2009, 48, 6288-6290.	2.5	46
18	Gene PA2449 Is Essential for Glycine Metabolism and Pyocyanin Biosynthesis in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2013, 195, 2087-2100.	2.2	46

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19	Examining the Role of Hydrogen Bonding Interactions in the Substrate Specificity for the Loading Step of Polyketide Synthase Thioesterase Domains. <i>Biochemistry</i> , 2008, 47, 11793-11803.	2.5	45
20	A New Mechanism for Benzopyrone Formation in Aromatic Polyketide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 9304-9305.	13.7	38
21	The thioesterase domain from the pimarinin and erythromycin biosynthetic pathways can catalyze hydrolysis of simple thioester substrates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 3034-3037.	2.2	36
22	Whole Genome Sequencing and Metabolomic Study of Cave <i>Streptomyces</i> Isolates ICC1 and ICC4. <i>Frontiers in Microbiology</i> , 2019, 10, 1020.	3.5	36
23	6-Deoxyerythronolide B Synthase Thioesterase-Catalyzed Macrocyclization Is Highly Stereoselective. <i>Organic Letters</i> , 2012, 14, 2278-2281.	4.6	35
24	Sialic acid and N-acyl sialic acid analog production by fermentation of metabolically and genetically engineered <i>Escherichia coli</i> . <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 1903.	2.8	31
25	Heterologous Expression of the Oxytetracycline Biosynthetic Pathway in <i>Myxococcus xanthus</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 2681-2683.	3.1	31
26	Elucidation of Gephyronic Acid Biosynthetic Pathway Revealed Unexpected SAM-Dependent Methylations. <i>Journal of Natural Products</i> , 2013, 76, 2269-2276.	3.0	29
27	Genetic Analysis of the Assimilation of C ₅ -Dicarboxylic Acids in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2014, 196, 2543-2551.	2.2	26
28	Total Biosynthesis of Legionaminic Acid, a Bacterial Sialic Acid Analogue. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12018-12021.	13.8	26
29	The role of transcription in heterologous expression of polyketides in bacterial hosts. <i>Natural Product Reports</i> , 2013, 30, 1391.	10.3	25
30	Resorcylic Acid Lactone Biosynthesis Relies on a Stereotolerant Macrocyclizing Thioesterase. <i>Organic Letters</i> , 2014, 16, 5858-5861.	4.6	25
31	First-in-class small molecule potentiators of cancer virotherapy. <i>Scientific Reports</i> , 2016, 6, 26786.	3.3	25
32	An Evolutionary Model Encompassing Substrate Specificity and Reactivity of Type I Polyketide Synthase Thioesterases. <i>ChemBioChem</i> , 2014, 15, 2656-2661.	2.6	24
33	Rapid, mild method for phosphonate diester hydrolysis: development of a one-pot synthesis of tenofovir disoproxil fumarate from tenofovir diethyl ester. <i>Tetrahedron</i> , 2010, 66, 8137-8144.	1.9	22
34	Total synthesis of (±)-fredericamycin A. Use of radical spirocyclization. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1489-1490.	2.0	21
35	Biosynthesis of ebelactone A: isotopic tracer, advanced precursor and genetic studies reveal a thioesterase-independent cyclization to give a polyketide β -lactone. <i>Journal of Antibiotics</i> , 2013, 66, 421-430.	2.0	21
36	Habitat-specific type I polyketide synthases in soils and street sediments. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 75-85.	3.0	21

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37	Modulation of antifreeze activity and the effect upon post-thaw HepG2 cell viability after cryopreservation. <i>Cryobiology</i> , 2015, 70, 79-89.	0.7	21
38	Biomimetic Transannular Oxa-Conjugate Addition Approach to the 2,6-Disubstituted Dihydropyran of Laulimalide Yields an Unprecedented Transannular Oxetane. <i>Journal of Organic Chemistry</i> , 2009, 74, 1454-1463.	3.2	18
39	Accessory Chromosome-Acquired Secondary Metabolism in Plant Pathogenic Fungi: The Evolution of Biotrophi Into Host-Specific Pathogens. <i>Frontiers in Microbiology</i> , 2021, 12, 664276.	3.5	17
40	Reinvestigation of Coenzyme Q10 Isolation from <i>Sporidiobolus johnsonii</i> . <i>Chemistry and Biodiversity</i> , 2011, 8, 1033-1051.	2.1	15
41	Inhibition of Bacterial Gene Transcription with an RpoN-Based Stapled Peptide. <i>Cell Chemical Biology</i> , 2018, 25, 1059-1066.e4.	5.2	15
42	Towards a characterization of the structural determinants of specificity in the macrocyclizing thioesterase for deoxyerythronolide B biosynthesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 486-497.	2.4	13
43	Thioesterase from Cereulide Biosynthesis Is Responsible for Oligomerization and Macrocyclization of a Linear Tetradepsipeptide. <i>Journal of Natural Products</i> , 2020, 83, 1990-1997.	3.0	13
44	Salvadenosine, a 5'-Deoxy-5-(methylthio) Nucleoside from the Bahamian Tunicate <i>Didemnum</i> sp.. <i>Journal of Organic Chemistry</i> , 2014, 79, 9992-9997.	3.2	12
45	Thermoplasmonic ssDNA Dynamic Release from Gold Nanoparticles Examined with Advanced Fluorescence Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1499-1503.	4.6	10
46	Sampling Terrestrial Environments for Bacterial Polyketides. <i>Molecules</i> , 2017, 22, 707.	3.8	10
47	The Use of ClusterMine360 for the Analysis of Polyketide and Nonribosomal Peptide Biosynthetic Pathways. <i>Methods in Molecular Biology</i> , 2016, 1401, 233-252.	0.9	10
48	Polyketide synthase thioesterases catalyze rapid hydrolysis of peptidyl thioesters. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 1413-1415.	2.2	9
49	Diastereoselective Transannular Oxa-Conjugate Addition Generates the 2,6-cis-Disubstituted Tetrahydropyran of Neopeltolide. <i>Journal of Organic Chemistry</i> , 2016, 81, 415-423.	3.2	9
50	Chemoenzymatic macrocycle synthesis using resorcylic acid lactone thioesterase domains. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5771-5779.	2.8	9
51	Sweetening Cyclic Peptide Libraries. <i>Chemistry and Biology</i> , 2004, 11, 1599-1600.	6.0	8
52	Armeniaspirols inhibit the AAA+ proteases ClpXP and ClpYQ leading to cell division arrest in Gram-positive bacteria. <i>Cell Chemical Biology</i> , 2021, 28, 1703-1715.e11.	5.2	8
53	Orthogonal ligation: a three piece assembly of a PNA-peptide-PNA conjugate. <i>Chemical Communications</i> , 2008, , 2785.	4.1	7
54	Hexanes/acetonitrile: a binary solvent system for the efficient monosilylation of symmetric primary and secondary diols. <i>Tetrahedron Letters</i> , 2014, 55, 2600-2602.	1.4	7

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55	Apicidin biosynthesis is linked to accessory chromosomes in <i>Fusarium poae</i> isolates. <i>BMC Genomics</i> , 2021, 22, 591.	2.8	7
56	Evolution of the Ergot Alkaloid Biosynthetic Gene Cluster Results in Divergent Mycotoxin Profiles in <i>Claviceps purpurea</i> Sclerotia. <i>Toxins</i> , 2021, 13, 861.	3.4	7
57	N-Acetylneuraminic Acid Production in <i>Escherichia coli</i> Lacking N-Acetylglucosamine Catabolic Machinery. <i>Chemical Engineering Communications</i> , 2016, 203, 1326-1335.	2.6	5
58	Total Biosynthesis of Legionaminic Acid, a Bacterial Sialic Acid Analogue. <i>Angewandte Chemie</i> , 2016, 128, 12197-12200.	2.0	4
59	Mapping an amazing thicket. <i>Nature Chemical Biology</i> , 2017, 13, 6-7.	8.0	4
60	Total synthesis of crystalline (±)-fredericamycin A. <i>Studies in Natural Products Chemistry</i> , 1995, , 27-74.	1.8	3
61	Non-canonical regioisomerizations and a "Diels-Alderase" are likely essential in the biosynthesis of Spiculoic acid A. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5253-5256.	2.2	3
62	Draft Genome Sequence of <i>Streptomyces</i> sp. Strain PBH53, Isolated from an Urban Environment. <i>Genome Announcements</i> , 2015, 3, .	0.8	3
63	A metabolomic study of vegetative incompatibility in <i>Cryphonectria parasitica</i> . <i>Fungal Genetics and Biology</i> , 2021, 157, 103633.	2.1	3
64	Draft Genome Sequence of the Type Strain <i>Streptomyces armeniacus</i> ATCC 15676. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	2
65	Armeniaspirol analogues with more potent Gram-positive antibiotic activity show enhanced inhibition of the ATP-dependent proteases ClpXP and ClpYQ. <i>RSC Medicinal Chemistry</i> , 0, , .	3.9	2
66	RpoN-Based stapled peptides with improved DNA binding suppress <i>Pseudomonas aeruginosa</i> virulence. <i>RSC Medicinal Chemistry</i> , 2022, 13, 445-455.	3.9	2
67	Does CIP Nomenclature Adequately Handle Molecules with Multiple Stereoelements? A Case Study of Vancomycin and Cognates. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 701-704.	13.8	1
68	Sweetening Cyclic Peptide Libraries. <i>ChemInform</i> , 2005, 36, no.	0.0	0
69	Inducible T7 RNA Polymerase-mediated Multigene Expression System, pMGX. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	0
70	Structural Study of Thioesterase Domains in Complex with Covalent Inhibitors. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C436-C436.	0.1	0