

Rolf MÃ¼ller

List of Publications by Year in descending order

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479
papers

29,021
citations

9264

74
h-index

9861

141
g-index

500
all docs

500
docs citations

500
times ranked

26037
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	17.5	2,802
2	antiSMASH 3.0—a comprehensive resource for the genome mining of biosynthetic gene clusters. <i>Nucleic Acids Research</i> , 2015, 43, W237-W243.	14.5	1,764
3	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. <i>Natural Product Reports</i> , 2013, 30, 108-160.	10.3	1,692
4	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	8.0	715
5	De novo fatty acid synthesis controls the fate between regulatory T and T helper 17 cells. <i>Nature Medicine</i> , 2014, 20, 1327-1333.	30.7	694
6	Towards the sustainable discovery and development of new antibiotics. <i>Nature Reviews Chemistry</i> , 2021, 5, 726-749.	30.2	439
7	Full-length RecE enhances linear-linear homologous recombination and facilitates direct cloning for bioprospecting. <i>Nature Biotechnology</i> , 2012, 30, 440-446.	17.5	375
8	Complete genome sequence of the myxobacterium <i>Sorangium cellulosum</i> . <i>Nature Biotechnology</i> , 2007, 25, 1281-1289.	17.5	354
9	Evolutionary Implications of Bacterial Polyketide Synthases. <i>Molecular Biology and Evolution</i> , 2005, 22, 2027-2039.	8.9	323
10	GeneTrail—advanced gene set enrichment analysis. <i>Nucleic Acids Research</i> , 2007, 35, W186-W192.	14.5	321
11	Myxobacteria: proficient producers of novel natural products with various biological activities—past and future biotechnological aspects with the focus on the genus <i>Sorangium</i> . <i>Journal of Biotechnology</i> , 2003, 106, 233-253.	3.8	281
12	Myxobacterial secondary metabolites: bioactivities and modes-of-action. <i>Natural Product Reports</i> , 2010, 27, 1276.	10.3	263
13	Targeting DnaN for tuberculosis therapy using novel griselimycins. <i>Science</i> , 2015, 348, 1106-1112.	12.6	262
14	The Impact of Bacterial Genomics on Natural Product Research. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6828-6846.	13.8	221
15	Biosynthesis of magnetic nanostructures in a foreign organism by transfer of bacterial magnetosome gene clusters. <i>Nature Nanotechnology</i> , 2014, 9, 193-197.	31.5	198
16	Recent advances in the heterologous expression of microbial natural product biosynthetic pathways. <i>Natural Product Reports</i> , 2013, 30, 1121.	10.3	180
17	Heterologous Expression of a Myxobacterial Natural Products Assembly Line in <i>Pseudomonads</i> via Red/ET Recombineering. <i>Chemistry and Biology</i> , 2005, 12, 349-356.	6.0	176
18	The Biosynthesis of the Aromatic Myxobacterial Electron Transport Inhibitor Stigmatellin Is Directed by a Novel Type of Modular Polyketide Synthase. <i>Journal of Biological Chemistry</i> , 2002, 277, 13082-13090.	3.4	174

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19	Recent developments towards the heterologous expression of complex bacterial natural product biosynthetic pathways. <i>Current Opinion in Biotechnology</i> , 2005, 16, 594-606.	6.6	173
20	Heterologous expression of bacterial natural product biosynthetic pathways. <i>Natural Product Reports</i> , 2019, 36, 1412-1436.	10.3	171
21	Cystobactamid: Myxobacterial Topoisomerase Inhibitors Exhibiting Potent Antibacterial Activity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14605-14609.	13.8	145
22	Genes and Enzymes Involved in Caffeic Acid Biosynthesis in the Actinomycete <i>Saccharothrix espanaensis</i> . <i>Journal of Bacteriology</i> , 2006, 188, 2666-2673.	2.2	138
23	Correlating chemical diversity with taxonomic distance for discovery of natural products in myxobacteria. <i>Nature Communications</i> , 2018, 9, 803.	12.8	137
24	Discovering the Hidden Secondary Metabolome of <i>Myxococcus xanthus</i> : a Study of Intraspecific Diversity. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3058-3068.	3.1	133
25	RecET direct cloning and Red \pm recombineering of biosynthetic gene clusters, large operons or single genes for heterologous expression. <i>Nature Protocols</i> , 2016, 11, 1175-1190.	12.0	132
26	Myxovirescin A Biosynthesis is Directed by Hybrid Polyketide Synthases/Nonribosomal Peptide Synthetase, 3-Hydroxy-3-Methylglutaryl-CoA Synthases, and trans-Acting Acyltransferases. <i>ChemBioChem</i> , 2006, 7, 1206-1220.	2.6	131
27	Efficient transfer of two large secondary metabolite pathway gene clusters into heterologous hosts by transposition. <i>Nucleic Acids Research</i> , 2008, 36, e113-e113.	14.5	128
28	Novel features in a combined polyketide synthase/non-ribosomal peptide synthetase: the myxalamid biosynthetic gene cluster of the myxobacterium <i>Stigmatella aurantiaca</i> Sga1511 This article is dedicated to Prof. Dr. E. Leistner on the occasion of his 60th birthday.. <i>Chemistry and Biology</i> , 2001, 8, 59-69.	6.0	127
29	Myxobacteria – microbial factories™ for the production of bioactive secondary metabolites. <i>Molecular BioSystems</i> , 2009, 5, 567.	2.9	127
30	Secondary metabolomics: the impact of mass spectrometry-based approaches on the discovery and characterization of microbial natural products. <i>Natural Product Reports</i> , 2014, 31, 768.	10.3	125
31	Formation of novel secondary metabolites by bacterial multimodular assembly lines: deviations from textbook biosynthetic logic. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 447-458.	6.1	123
32	The Interplay of Lung Surfactant Proteins and Lipids Assimilates the Macrophage Clearance of Nanoparticles. <i>PLoS ONE</i> , 2012, 7, e40775.	2.5	123
33	Concepts and Methods to Access Novel Antibiotics from Actinomycetes. <i>Antibiotics</i> , 2018, 7, 44.	3.7	119
34	A Novel Type of Geosmin Biosynthesis in Myxobacteria. <i>Journal of Organic Chemistry</i> , 2005, 70, 5174-5182.	3.2	118
35	Protein-Protein Interactions in Multienzyme Megasyntetases. <i>ChemBioChem</i> , 2008, 9, 826-848.	2.6	118
36	Synthetic Biotechnology to Study and Engineer Ribosomal Botromycin Biosynthesis. <i>Chemistry and Biology</i> , 2012, 19, 1278-1287.	6.0	118

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37	Biosynthesis of Volatiles by the Myxobacterium <i>Myxococcus xanthus</i> . <i>ChemBioChem</i> , 2004, 5, 778-787.	2.6	117
38	The Translational Machinery of Human CD4+ T Cells Is Poised for Activation and Controls the Switch from Quiescence to Metabolic Remodeling. <i>Cell Metabolism</i> , 2018, 28, 895-906.e5.	16.2	116
39	Revealing the macromolecular targets of complex natural products. <i>Nature Chemistry</i> , 2014, 6, 1072-1078.	13.6	114
40	A brief tour of myxobacterial secondary metabolism. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 2121-2136.	3.0	113
41	Improved seamless mutagenesis by recombineering using <i>ccdB</i> for counterselection. <i>Nucleic Acids Research</i> , 2014, 42, e37-e37.	14.5	113
42	Pinensins: The First Antifungal Lantibiotics. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11254-11258.	13.8	112
43	Comparative Genomic Analysis of Fruiting Body Formation in Myxococcales. <i>Molecular Biology and Evolution</i> , 2011, 28, 1083-1097.	8.9	111
44	Structure and Biosynthesis of Myxochromides S1-3 in <i>Stigmatella aurantiaca</i> : Evidence for an Iterative Bacterial Type I Polyketide Synthase and for Module Skipping in Nonribosomal Peptide Biosynthesis. <i>ChemBioChem</i> , 2005, 6, 375-385.	2.6	110
45	Stereochemical Determination and Complex Biosynthetic Assembly of Etnangien, a Highly Potent RNA Polymerase Inhibitor from the Myxobacterium <i>Sorangium cellulosum</i> . <i>Journal of the American Chemical Society</i> , 2008, 130, 14234-14243.	13.7	110
46	Novel expression hosts for complex secondary metabolite megasynthetases: Production of myxochromide in the thermophilic isolate <i>Corallococcus macrosporus</i> GT-2. <i>Microbial Cell Factories</i> , 2009, 8, 1.	4.0	110
47	Marinoquinolines A-F, Pyrroloquinolines from <i>Ohtaekwangia kribbensis</i> (Bacteroidetes). <i>Journal of Natural Products</i> , 2011, 74, 603-608.	3.0	109
48	Compendium of specialized metabolite biosynthetic diversity encoded in bacterial genomes. <i>Nature Microbiology</i> , 2022, 7, 726-735.	13.3	106
49	Identification and analysis of the chivosazol biosynthetic gene cluster from the myxobacterial model strain <i>Sorangium cellulosum</i> So ce56. <i>Journal of Biotechnology</i> , 2006, 121, 174-191.	3.8	104
50	The Leupyrrins: A Structurally Unique Family of Secondary Metabolites from the Myxobacterium <i>Sorangium cellulosum</i> . <i>Journal of Natural Products</i> , 2003, 66, 1203-1206.	3.0	103
51	Identification and Analysis of the Core Biosynthetic Machinery of Tubulysin, a Potent Cytotoxin with Potential Anticancer Activity. <i>Chemistry and Biology</i> , 2004, 11, 1071-1079.	6.0	102
52	Bacterial type III polyketide synthases: phylogenetic analysis and potential for the production of novel secondary metabolites by heterologous expression in pseudomonads. <i>Archives of Microbiology</i> , 2006, 185, 28-38.	2.2	102
53	Myxobacterium-Produced Antibiotic TA (Myxovirescin) Inhibits Type II Signal Peptidase. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2014-2021.	3.2	101
54	In Vivo Evidence for a Prodrug Activation Mechanism during Colibactin Maturation. <i>ChemBioChem</i> , 2013, 14, 1194-1197.	2.6	101

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55	The impact of genomics on the exploitation of the myxobacterial secondary metabolome. <i>Natural Product Reports</i> , 2009, 26, 1385.	10.3	100
56	Myxoprincomide: A Natural Product from <i>Myxococcus xanthus</i> Discovered by Comprehensive Analysis of the Secondary Metabolome. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 811-816.	13.8	100
57	Biosynthesis of the Off-Flavor Methylisoborneol by the Myxobacterium <i>Nannocystis exedens</i> . <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8287-8290.	13.8	99
58	Improving Natural Products Identification through Targeted LC-MS/MS in an Untargeted Secondary Metabolomics Workflow. <i>Analytical Chemistry</i> , 2014, 86, 10780-10788.	6.5	97
59	Nonribosomal Peptide Biosynthesis: Point Mutations and Module Skipping Lead to Chemical Diversity. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2296-2301.	13.8	96
60	The unique DKxanthene secondary metabolite family from the myxobacterium <i>Myxococcus xanthus</i> is required for developmental sporulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19128-19133.	7.1	96
61	ExoCET: exonuclease in vitro assembly combined with RecET recombination for highly efficient direct DNA cloning from complex genomes. <i>Nucleic Acids Research</i> , 2018, 46, e28-e28.	14.5	96
62	Biosynthesis of the Myxobacterial Antibiotic Coralopyronin A. <i>ChemBioChem</i> , 2010, 11, 1253-1265.	2.6	95
63	The V-ATPase-Inhibitor Archazolid Abrogates Tumor Metastasis via Inhibition of Endocytic Activation of the Rho-GTPase Rac1. <i>Cancer Research</i> , 2012, 72, 5976-5987.	0.9	94
64	Bacteria as genetically programmable producers of bioactive natural products. <i>Nature Reviews Chemistry</i> , 2020, 4, 172-193.	30.2	93
65	Molecular and Biochemical Studies of Chondramide Formation—Highly Cytotoxic Natural Products from <i>Chondromyces crocatus</i> Cm c5. <i>Chemistry and Biology</i> , 2006, 13, 667-681.	6.0	90
66	Myxobacterial natural product assembly lines: fascinating examples of curious biochemistry. <i>Natural Product Reports</i> , 2007, 24, 1211.	10.3	90
67	Biocompatible bacteria-derived vesicles show inherent antimicrobial activity. <i>Journal of Controlled Release</i> , 2018, 290, 46-55.	9.9	90
68	Self-resistance guided genome mining uncovers new topoisomerase inhibitors from myxobacteria. <i>Chemical Science</i> , 2018, 9, 4898-4908.	7.4	88
69	Melithiazol Biosynthesis. <i>Chemistry and Biology</i> , 2003, 10, 939-952.	6.0	82
70	Future potential for anti-infectives from bacteria — How to exploit biodiversity and genomic potential. <i>International Journal of Medical Microbiology</i> , 2014, 304, 3-13.	3.6	82
71	PLSDB: advancing a comprehensive database of bacterial plasmids. <i>Nucleic Acids Research</i> , 2022, 50, D273-D278.	14.5	82
72	Reconstitution of the Myxothiazol Biosynthetic Gene Cluster by Red/ET Recombination and Heterologous Expression in <i>Myxococcus xanthus</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 7485-7494.	3.1	81

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73	Chivosazoleâ€¦.Aâ€”Elucidation of the Absolute and Relative Configuration. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4898-4901.	13.8	81
74	Pretubulysin, a Potent and Chemically Accessible Tubulysin Precursor from <i>Angiococcus disciformis</i> . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4422-4425.	13.8	81
75	Polyunsaturated fatty acid production by <i>Yarrowia lipolytica</i> employing designed myxobacterial PUFA synthases. <i>Nature Communications</i> , 2019, 10, 4055.	12.8	81
76	Expanded phylogeny of myxobacteria and evidence for cultivation of the “unculturables”™. <i>Molecular Phylogenetics and Evolution</i> , 2010, 57, 878-887.	2.7	80
77	<i>Sandaracinus amylolyticus</i> gen. nov., sp. nov., a starch-degrading soil myxobacterium, and description of <i>Sandaracinaceae</i> fam. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 1191-1198.	1.7	80
78	Discovery of recombinases enables genome mining of cryptic biosynthetic gene clusters in <i>Burkholderiales</i> species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4255-E4263.	7.1	80
79	The transcriptional signature of human ovarian carcinoma macrophages is associated with extracellular matrix reorganization. <i>Oncotarget</i> , 2016, 7, 75339-75352.	1.8	79
80	Molecular Basis of Elansolid Biosynthesis: Evidence for an Unprecedented Quinone Methide Initiated Intramolecular Dielsâ€”Alder Cycloaddition/Macrolactonization. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3882-3887.	13.8	78
81	High-Titer Heterologous Production in <i>E. coli</i> of Lyngbyatoxin, a Protein Kinase C Activator from an Uncultured Marine Cyanobacterium. <i>ACS Chemical Biology</i> , 2013, 8, 1888-1893.	3.4	77
82	BAX/BAK-Induced Apoptosis Results in Caspase-8-Dependent IL-1 β Maturation in Macrophages. <i>Cell Reports</i> , 2018, 25, 2354-2368.e5.	6.4	74
83	Production of the Tubulin Destabilizer Disorazol in <i>Sorangium cellulosum</i> : Biosynthetic Machinery and Regulatory Genes. <i>ChemBioChem</i> , 2005, 6, 1277-1286.	2.6	73
84	A Typeâ€”II Polyketide Synthase from the Gram-Negative Bacterium <i>Stigmatella aurantiaca</i> Is Involved in Aurachin Alkaloid Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2712-2716.	13.8	73
85	Elansolidâ€¦.A3, a Unique <i>p</i> -Quinone Methide Antibiotic from <i>Chitinophaga sancti</i> . <i>Chemistry - A European Journal</i> , 2011, 17, 7739-7744.	3.3	73
86	On the Biosynthetic Origin of Methoxymalonyl-Acyl Carrier Protein, the Substrate for Incorporation of “Glycolate” Units into Ansamitocin and Soraphen A. <i>Journal of the American Chemical Society</i> , 2006, 128, 14325-14336.	13.7	72
87	Proteome Analysis of <i>Myxococcus xanthus</i> by Off-Line Two-Dimensional Chromatographic Separation Using Monolithic Poly-(styrene-divinylbenzene) Columns Combined with Ion-Trap Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2006, 5, 2760-2768.	3.7	72
88	Biosynthesis of methyl-proline containing griselimycins, natural products with anti-tuberculosis activity. <i>Chemical Science</i> , 2017, 8, 7521-7527.	7.4	72
89	Analysis of myxobacterial secondary metabolism goes molecular. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 33, 577-588.	3.0	71
90	Identification of Small-Molecule Antagonists of the <i>Pseudomonas aeruginosa</i> Transcriptional Regulator PqsR: Biophysically Guided Hit Discovery and Optimization. <i>ACS Chemical Biology</i> , 2012, 7, 1496-1501.	3.4	69

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91	A Motif-Oriented Total Synthesis of Nannocystin Ax. Preparation and Biological Assessment of Analogues. <i>Journal of Organic Chemistry</i> , 2018, 83, 6977-6994.	3.2	67
92	Metabolic Engineering of <i>Pseudomonas putida</i> for Methylmalonyl-CoA Biosynthesis to Enable Complex Heterologous Secondary Metabolite Formation. <i>Chemistry and Biology</i> , 2006, 13, 1253-1264.	6.0	66
93	Synthesis and Biological Evaluation of Pretubulysin and Derivatives. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 6367-6378.	2.4	66
94	Direct Cloning, Genetic Engineering, and Heterologous Expression of the Syringolin Biosynthetic Gene Cluster in <i>E. coli</i> through Red/ET Recombineering. <i>ChemBioChem</i> , 2012, 13, 1946-1952.	2.6	66
95	Room temperature electrocompetent bacterial cells improve DNA transformation and recombineering efficiency. <i>Scientific Reports</i> , 2016, 6, 24648.	3.3	66
96	The natural product carolacton inhibits folate-dependent C1 metabolism by targeting FOLD/MTHFD. <i>Nature Communications</i> , 2017, 8, 1529.	12.8	66
97	Thioholgamides: Thioamide-Containing Cytotoxic RiPP Natural Products. <i>ACS Chemical Biology</i> , 2017, 12, 2837-2841.	3.4	65
98	Homologous bd oxidases share the same architecture but differ in mechanism. <i>Nature Communications</i> , 2019, 10, 5138.	12.8	65
99	Analysis of the Sorangicin Gene Cluster Reinforces the Utility of a Combined Phylogenetic/Retrobiosynthetic Analysis for Deciphering Natural Product Assembly by <i>trans</i> -AT PKS. <i>ChemBioChem</i> , 2010, 11, 1840-1849.	2.6	64
100	V-ATPase Inhibition Regulates Anoikis Resistance and Metastasis of Cancer Cells. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 926-937.	4.1	64
101	Flunarizine prevents hepatitis C virus membrane fusion in a genotype-dependent manner by targeting the potential fusion peptide within E1. <i>Hepatology</i> , 2016, 63, 49-62.	7.3	64
102	Unusual carbon fixation gives rise to diverse polyketide extender units. <i>Nature Chemical Biology</i> , 2012, 8, 117-124.	8.0	63
103	Spiroketal Polyketide Formation in <i>Sorangium</i> : Identification and Analysis of the Biosynthetic Gene Cluster for the Highly Cytotoxic Spirangienes. <i>Chemistry and Biology</i> , 2007, 14, 221-233.	6.0	62
104	Efficient mining of myxobacterial metabolite profiles enabled by liquid chromatography-electrospray ionisation-time-of-flight mass spectrometry and compound-based principal component analysis. <i>Analytica Chimica Acta</i> , 2008, 624, 97-106.	5.4	62
105	Susceptibility of Different Mouse Wild Type Strains to Develop Diet-Induced NAFLD/AFLD-Associated Liver Disease. <i>PLoS ONE</i> , 2016, 11, e0155163.	2.5	62
106	Discovery and Total Synthesis of Natural Cystobactamid Derivatives with Superior Activity against Gram-Negative Pathogens. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12760-12764.	13.8	62
107	Full Stereochemical Determination of Ajudazols A and B by Bioinformatics Gene Cluster Analysis and Total Synthesis of Ajudazol B by an Asymmetric Ortholithiation Strategy. <i>Journal of the American Chemical Society</i> , 2012, 134, 19362-19365.	13.7	61
108	Biosynthesis and Identification of Volatiles Released by the Myxobacterium <i>Stigmatella aurantiaca</i> . <i>ChemBioChem</i> , 2005, 6, 2023-2033.	2.6	60

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109	DKxanthene Biosynthesisâ€”Understanding the Basis for Diversity-Oriented Synthesis in Myxobacterial Secondary Metabolism. <i>Chemistry and Biology</i> , 2008, 15, 771-781.	6.0	60
110	Structure and Action of the Myxobacterial Chondrochloren Halogenase CndH: A New Variant of FAD-dependent Halogenases. <i>Journal of Molecular Biology</i> , 2009, 385, 520-530.	4.2	60
111	Genome-wide mutant profiling predicts the mechanism of a Lipid II binding antibiotic. <i>Nature Chemical Biology</i> , 2018, 14, 601-608.	8.0	60
112	Carolacton â€” A Macrolide Ketocarboxylic Acid that Reduces Biofilm Formation by the Cariesâ€”and Endocarditisâ€”Associated Bacterium <i>Streptococcus mutans</i> . <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1284-1289.	2.4	59
113	Two more pieces of the colibactin genotoxin puzzle from <i>Escherichia coli</i> show incorporation of an unusual 1-aminocyclopropanecarboxylic acid moiety. <i>Chemical Science</i> , 2015, 6, 3154-3160.	7.4	59
114	The Mechanism of Action of Lysobactin. <i>Journal of the American Chemical Society</i> , 2016, 138, 100-103.	13.7	58
115	Critical variations of conjugational DNA transfer into secondary metabolite multiproducing <i>Sorangium cellulosum</i> strains So ce12 and So ce56: development of a mariner-based transposon mutagenesis system. <i>Journal of Biotechnology</i> , 2004, 107, 29-40.	3.8	57
116	Discovery of 23 Natural Tubulysins from <i>Angiococcus disciformis</i> An d48 and <i>Cystobacter</i> SBCb004. <i>Chemistry and Biology</i> , 2010, 17, 296-309.	6.0	57
117	Heterologous Expression and Genetic Engineering of the Tubulysin Biosynthetic Gene Cluster Using Red/ET Recombineering and Inactivation Mutagenesis. <i>Chemistry and Biology</i> , 2012, 19, 361-371.	6.0	57
118	Biosynthetic Studies of Telomycin Reveal New Lipopeptides with Enhanced Activity. <i>Journal of the American Chemical Society</i> , 2015, 137, 7692-7705.	13.7	57
119	In depth natural product discovery - Myxobacterial strains that provided multiple secondary metabolites. <i>Biotechnology Advances</i> , 2020, 39, 107480.	11.7	57
120	A Novel Biosynthetic Pathway Providing Precursors for Fatty Acid Biosynthesis and Secondary Metabolite Formation in Myxobacteria. <i>Journal of Biological Chemistry</i> , 2002, 277, 32768-32774.	3.4	56
121	Polyunsaturated fatty acid biosynthesis in myxobacteria: different PUFA synthases and their product diversity. <i>Chemical Science</i> , 2014, 5, 1733.	7.4	56
122	Covalent Lectin Inhibition and Application in Bacterial Biofilm Imaging. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16559-16564.	13.8	56
123	Rational Design of a Bimodular Model System for the Investigation of Heterocyclization in Nonribosomal Peptide Biosynthesis. <i>Chemistry and Biology</i> , 2004, 11, 261-271.	6.0	55
124	Pellastoren: Structure Elucidation, Biosynthesis, and Total Synthesis of a Cytotoxic Secondary Metabolite from <i>Sorangium cellulosum</i> . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5239-5243.	13.8	55
125	Biosynthesis of Thuggacins in Myxobacteria: Comparative Cluster Analysis Reveals Basis for Natural Product Structural Diversity. <i>Chemistry and Biology</i> , 2010, 17, 342-356.	6.0	54
126	Fatty Acid-Related Phylogeny of Myxobacteria as an Approach to Discover Polyunsaturated Omega-3/6 Fatty Acids. <i>Journal of Bacteriology</i> , 2011, 193, 1930-1942.	2.2	54

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127	V α -ATPase inhibition overcomes trastuzumab resistance in breast cancer. <i>Molecular Oncology</i> , 2014, 8, 9-19.	4.6	54
128	A new recombinering system for <i>Photobacterium</i> and <i>Xenorhabdus</i> . <i>Nucleic Acids Research</i> , 2015, 43, e36-e36.	14.5	54
129	Biosynthesis of Branched Alkoxy Groups: Iterative Methyl Group Alkylation by a Cobalamin-Dependent Radical SAM Enzyme. <i>Journal of the American Chemical Society</i> , 2017, 139, 1742-1745.	13.7	54
130	Biosynthesis and Heterologous Production of Vioprolides: Rational Biosynthetic Engineering and Unprecedented 4 α -Methylazetidinecarboxylic Acid Formation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8754-8759.	13.8	54
131	Discovery of Additional Members of the Tyrosine Aminomutase Enzyme Family and the Mutational Analysis of CmdF. <i>ChemBioChem</i> , 2009, 10, 741-750.	2.6	53
132	Aetheramides A and B, Potent HIV-Inhibitory Depsipeptides from a Myxobacterium of the New Genus <i>Aetherobacter</i> . <i>Organic Letters</i> , 2012, 14, 2854-2857.	4.6	53
133	Overproduction of Magnetosomes by Genomic Amplification of Biosynthesis-Related Gene Clusters in a Magnetotactic Bacterium. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3032-3041.	3.1	53
134	From Genetic Diversity to Metabolic Unity: Studies on the Biosynthesis of Aurafurones and Aurafuron-like Structures in Myxobacteria and Streptomyces. <i>Journal of Molecular Biology</i> , 2007, 374, 24-38.	4.2	52
135	Structure Optimization of 2-Benzamidobenzoic Acids as PqsD Inhibitors for <i>Pseudomonas aeruginosa</i> Infections and Elucidation of Binding Mode by SPR, STD NMR, and Molecular Docking. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6146-6155.	6.4	52
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