

# Markus Nett

## List of Publications by Year in descending order

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78  
papers

3,485  
citations

218677

26  
h-index

149698

56  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	8.0	715
2	Genomic basis for natural product biosynthetic diversity in the actinomycetes. <i>Natural Product Reports</i> , 2009, 26, 1362.	10.3	645
3	Genomic islands link secondary metabolism to functional adaptation in marine Actinobacteria. <i>ISME Journal</i> , 2009, 3, 1193-1203.	9.8	175
4	Significant Natural Product Biosynthetic Potential of Actinorhizal Symbionts of the Genus <i>Frankia</i> , as Revealed by Comparative Genomic and Proteomic Analyses. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3617-3625.	3.1	94
5	Bioactivity-Guided Genome Mining Reveals the Lomaiviticin Biosynthetic Gene Cluster in <i>Salinispora tropica</i> . <i>ChemBioChem</i> , 2013, 14, 955-962.	2.6	82
6	Siderophores as molecular tools in medical and environmental applications. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8212-8227.	2.8	79
7	Function-Oriented Biosynthesis of $\beta^2$ -Lactone Proteasome Inhibitors in <i>Salinispora tropica</i> . <i>Journal of Medicinal Chemistry</i> , 2009, 52, 6163-6167.	6.4	70
8	Antibiotics from predatory bacteria. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 594-607.	2.2	69
9	Engineered Biosynthesis of Antiprotealide and Other Unnatural Salinosporamide Proteasome Inhibitors. <i>Journal of the American Chemical Society</i> , 2008, 130, 7822-7823.	13.7	68
10	Siphonazole, an Unusual Metabolite from <i>Herpetosiphon</i> sp.. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3863-3867.	13.8	66
11	Unraveling the Biosynthesis of the Sporolide Cyclohexenone Building Block. <i>Journal of the American Chemical Society</i> , 2008, 130, 2406-2407.	13.7	59
12	Structure and Biosynthetic Assembly of Cupriachelin, a Photoreactive Siderophore from the Bioplastic Producer <i>Cupriavidus necator</i> H16. <i>Journal of the American Chemical Society</i> , 2012, 134, 5415-5422.	13.7	58
13	Biosynthesis of a Complex Yersiniabactin-Like Natural Product via the <i>mic</i> Locus in Phytopathogen <i>Ralstonia solanacearum</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 6117-6124.	3.1	52
14	The chemistry of gliding bacteria. <i>Natural Product Reports</i> , 2007, 24, 1245.	10.3	51
15	Quantitative Analysis of <i>Lysobacter</i> Predation. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7098-7105.	3.1	50
16	Complete genome sequence of the filamentous gliding predatory bacterium <i>Herpetosiphon aurantiacus</i> type strain (114-95T). <i>Standards in Genomic Sciences</i> , 2011, 5, 356-370.	1.5	47
17	In vitro cytotoxicity of melleolide antibiotics: Structural and mechanistic aspects. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2003-2006.	2.2	44
18	Ralfuranone Biosynthesis in <i>Ralstonia solanacearum</i> Suggests Functional Divergence in the Quinone Synthetase Family of Enzymes. <i>Chemistry and Biology</i> , 2011, 18, 354-360.	6.0	41

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19	The Global Virulence Regulators VsrAD and PhcA Control Secondary Metabolism in the Plant Pathogen <i>Ralstonia solanacearum</i> . <i>ChemBioChem</i> , 2009, 10, 2730-2732.	2.6	38
20	New cytotoxic cembrane based diterpenes from the soft corals <i>Sarcophyton cheronneri</i> and <i>Nephthea</i> sp. Electronic supplementary information (ESI) available: Mosher results for compound 3. See <a href="http://www.rsc.org/suppdata/ob/b2/b210039h/">http://www.rsc.org/suppdata/ob/b2/b210039h/</a> . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 944-949.	2.8	36
21	Structure and Biosynthetic Assembly of Gulmirecins, Macrolide Antibiotics from the Predatory Bacterium <i>Pyxidicoccus fallax</i> . <i>Chemistry - A European Journal</i> , 2014, 20, 15933-15940.	3.3	36
22	<i>Candida albicans</i> Utilizes a Modified $\hat{1}^2$ -Oxidation Pathway for the Degradation of Toxic Propionyl-CoA*. <i>Journal of Biological Chemistry</i> , 2014, 289, 8151-8169.	3.4	35
23	Induced Chemical Defense of a Mushroom by a Double-Bond Shifting Polyene Synthase. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5937-5941.	13.8	34
24	Pitucamycin: Structural Merger of a Phenoxazinone with an Epoxyquinone Antibiotic. <i>Journal of Natural Products</i> , 2010, 73, 1461-1464.	3.0	33
25	Myxochelins Target Human 5-Lipoxygenase. <i>Journal of Natural Products</i> , 2015, 78, 335-338.	3.0	29
26	Ralfuranone Thioether Production by the Plant Pathogen <i>Ralstonia solanacearum</i> . <i>ChemBioChem</i> , 2013, 14, 2169-2178.	2.6	28
27	Genomics-driven discovery of taiwachelin, a lipopeptide siderophore from <i>Cupriavidus taiwanensis</i> . <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9338.	2.8	27
28	Discovery of an Extended Austinoid Biosynthetic Pathway in <i>Aspergillus calidoustus</i> . <i>ACS Chemical Biology</i> , 2017, 12, 1227-1234.	3.4	27
29	Biosynthetic Origin of the Antibiotic Pseudopyronines A and B in <i>Pseudomonas putida</i> BW11M1. <i>ChemBioChem</i> , 2015, 16, 2491-2497.	2.6	26
30	The 5-lipoxygenase inhibitor RF-22c potently suppresses leukotriene biosynthesis in cellulose and blocks bronchoconstriction and inflammation in vivo. <i>Biochemical Pharmacology</i> , 2016, 112, 60-71.	4.4	25
31	Structure of Ralsolamycin, the Interkingdom Morphogen from the Crop Plant Pathogen <i>Ralstonia solanacearum</i> . <i>Organic Letters</i> , 2017, 19, 4868-4871.	4.6	25
32	Bezerramycins A-C, Antiproliferative Phenoxazinones from <i>Streptomyces griseus</i> Featuring Carboxy, Carboxamide or Nitrile Substituents. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 231-235.	2.4	23
33	Farinamycin, a Quinazoline from <i>Streptomyces griseus</i> . <i>Journal of Natural Products</i> , 2011, 74, 2265-2268.	3.0	22
34	An Iterative Type I Polyketide Synthase Initiates the Biosynthesis of the Antimycoplasmal Agent Micacocidin. <i>Chemistry and Biology</i> , 2013, 20, 764-771.	6.0	22
35	Unexpected Metabolic Versatility in a Combined Fungal Fomannoxin/Vibrallactone Biosynthesis. <i>Journal of Natural Products</i> , 2016, 79, 1407-1414.	3.0	22
36	Unraveling the predator-prey relationship of <i>Cupriavidus necator</i> and <i>Bacillus subtilis</i> . <i>Microbiological Research</i> , 2016, 192, 231-238.	5.3	22

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37	Cross-Chemistry Leads to Product Diversity from Atromentin Synthetases in <i>Aspergilli</i> from Section Nigri. <i>Cell Chemical Biology</i> , 2019, 26, 223-234.e6.	5.2	22
38	A gene cluster responsible for biosynthesis of phomenoic acid in the plant pathogenic fungus, <i>Leptosphaeria maculans</i> . <i>Fungal Genetics and Biology</i> , 2013, 53, 50-58.	2.1	21
39	<i>Micromonospora schwarzwaldensis</i> sp. nov., a producer of telomycin, isolated from soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 3812-3817.	1.7	21
40	Precursor-directed biosynthesis of micacocidin derivatives with activity against <i>Mycoplasma pneumoniae</i> . <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 113-118.	2.8	21
41	Harnessing Enzymatic Promiscuity in Myxochelin Biosynthesis for the Production of 5- $\epsilon$ -Lipoxygenase Inhibitors. <i>ChemBioChem</i> , 2015, 16, 2445-2450.	2.6	21
42	Variochelins, Lipopeptide Siderophores from <i>Variovorax boronicumulans</i> Discovered by Genome Mining. <i>Journal of Natural Products</i> , 2016, 79, 865-872.	3.0	21
43	Chemical chain termination resolves the timing of ketoreduction in a partially reducing iterative type I polyketide synthase. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 11414-11417.	2.8	20
44	Myxochelin- and Pseudochelin-Derived Lipoxygenase Inhibitors from a Genetically Engineered <i>Myxococcus xanthus</i> Strain. <i>Journal of Natural Products</i> , 2019, 82, 2544-2549.	3.0	20
45	Engineering Pseudochelin Production in <i>Myxococcus xanthus</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	19
46	<i>Saccharomyces cerevisiae</i> as host for the recombinant production of polyketides and nonribosomal peptides. <i>Microbial Cell Factories</i> , 2021, 20, 161.	4.0	19
47	Microbial synthesis of the type I polyketide 6-methylsalicylate with <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9619-9631.	3.6	18
48	Exploration and engineering of biosynthetic pathways in the marine actinomycete <i>Salinispora tropica</i> . <i>Pure and Applied Chemistry</i> , 2009, 81, 1075-1084.	1.9	17
49	Catalytic Promiscuity of cGAS: A Facile Enzymatic Synthesis of 2- $\beta$ -Linked Cyclic Dinucleotides. <i>ChemBioChem</i> , 2020, 21, 3225-3228.	2.6	17
50	Bioengineering of Anti-inflammatory Natural Products. <i>ChemMedChem</i> , 2021, 16, 767-776.	3.2	17
51	Injury-Induced Biosynthesis of Methyl-Branched Polyene Pigments in a White-Rotting Basidiomycete. <i>Journal of Natural Products</i> , 2014, 77, 2658-2663.	3.0	16
52	Genome Mining: Concept and Strategies for Natural Product Discovery. <i>Progress in the Chemistry of Organic Natural Products</i> , 2014, 99, 199-245.	1.1	15
53	New myxothiazols from the predatory bacterium <i>Myxococcus fulvus</i> . <i>Journal of Antibiotics</i> , 2014, 67, 519-525.	2.0	14
54	Structure and Absolute Configuration of Auriculamide, a Natural Product from the Predatory Bacterium <i>Herpetosiphon aurantiacus</i> . <i>European Journal of Organic Chemistry</i> , 2015, 2015, 3057-3062.	2.4	14

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55	Biosynthetic Plasticity Enables Production of Fluorinated Aurachins. <i>ChemBioChem</i> , 2020, 21, 2268-2273.	2.6	13
56	Mutasynthesis of Physostigmines in <i>Myxococcus xanthus</i> . <i>Organic Letters</i> , 2021, 23, 6563-6567.	4.6	13
57	<i>Herpetosiphon gulosus</i> sp. nov., a filamentous predatory bacterium isolated from sandy soil and <i>Herpetosiphon giganteus</i> sp. nov., nom. rev.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 2476-2481.	1.7	12
58	Recent Advances in Biocatalysis for Drug Synthesis. <i>Biomedicines</i> , 2022, 10, 964.	3.2	12
59	Algae induce siderophore biosynthesis in the freshwater bacterium <i>Cupriavidus necator</i> H16. <i>BioMetals</i> , 2019, 32, 77-88.	4.1	11
60	4-Hydroxyphenylglycine biosynthesis in <i>Herpetosiphon aurantiacus</i> : a case of gene duplication and catalytic divergence. <i>Archives of Microbiology</i> , 2012, 194, 557-566.	2.2	10
61	Ralfuranone Is Produced by an Alternative Aryl-Substituted $\beta$ -Lactone Biosynthetic Route in <i>Ralstonia solanacearum</i> . <i>Journal of Natural Products</i> , 2014, 77, 1967-1971.	3.0	10
62	Genomics-inspired discovery of massiliachelin, an agrochelin epimer from <i>Massilia</i> sp. NR 4-1. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1298-1303.	2.2	10
63	Dandamycin and chandrananimycin E, benzoxazines from <i>Streptomyces griseus</i> . <i>Journal of Antibiotics</i> , 2015, 68, 463-468.	2.0	9
64	Induzierte chemische Verteidigung eines Ständerpilzes durch eine doppelbindungsverschiebende Polyensynthese. <i>Angewandte Chemie</i> , 2017, 129, 6031-6035.	2.0	9
65	Myxochelin-Inspired 5-Lipoxygenase Inhibitors: Synthesis and Biological Evaluation. <i>ChemMedChem</i> , 2017, 12, 23-27.	3.2	9
66	An Iterative O-Methyltransferase Catalyzes 1,1-Dimethylation of <i>Aspergillus fumigatus</i> Fumaric Acid Amides. <i>ChemBioChem</i> , 2016, 17, 1813-1817.	2.6	8
67	A genomics perspective on natural product biosynthesis in plant pathogenic bacteria. <i>Natural Product Reports</i> , 2019, 36, 307-325.	10.3	8
68	A non-canonical peptide synthetase adenylates 3-methyl-2-oxovaleric acid for auriculamide biosynthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2766-2770.	2.2	6
69	A fast and efficient method for the preparation of the 5-lipoxygenase inhibitor myxochelin A. <i>Tetrahedron Letters</i> , 2016, 57, 1359-1360.	1.4	6
70	Complete Genome Sequence of the Cryptophycin-Producing Cyanobacterium <i>Nostoc</i> sp. Strain ATCC 53789. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	6
71	Discovery, Biosynthetic Origin, and Heterologous Production of Massinidine, an Antiplasmodial Alkaloid. <i>Organic Letters</i> , 2022, 24, 2935-2939.	4.6	6
72	Zincophorin - biosynthesis in <i>Streptomyces griseus</i> and antibiotic properties. <i>GMS Infectious Diseases</i> , 2016, 4, Doc08.	0.8	5

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73	Characterization of a Solvent-Tolerant Amidohydrolase Involved in Natural Product Heterocycle Formation. <i>Catalysts</i> , 2021, 11, 892.	3.5	4
74	Complete Genome Sequence of the Lignocellulose-Degrading Actinomycete <i>Streptomyces albus</i> CAS922. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	3
75	Secondary Metabolism of Predatory Bacteria. , 2020, , 127-153.		3
76	Herpetopanone, a diterpene from <i>Herpetosiphon aurantiacus</i> discovered by isotope labeling. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2458-2465.	2.2	2
77	Complete Genome Sequence of the Nonmotile <i>Myxococcus xanthus</i> Strain NM. <i>Microbiology Resource Announcements</i> , 2021, 10, e0098921.	0.6	1
78	Amamistatins isolated from <i>Nocardia altamirensis</i> . <i>Beilstein Journal of Organic Chemistry</i> , 2022, 18, 360-367.	2.2	0