

# Christian Hertweck

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2570466/christian-hertweck-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

423  
papers

21,283  
citations

73  
h-index

128  
g-index

495  
ext. papers

24,779  
ext. citations

8.5  
avg, IF

7.29  
L-index

#	Paper	IF	Citations
423	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. <i>Natural Product Reports</i> , <b>2013</b> , 30, 108-60	15.1	1298
422	The biosynthetic logic of polyketide diversity. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4688-716	11.6	918
421	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 625-31	11.7	498
420	Pathogenic fungus harbours endosymbiotic bacteria for toxin production. <i>Nature</i> , <b>2005</b> , 437, 884-8	50.4	492
419	Intimate bacterial-fungal interaction triggers biosynthesis of archetypal polyketides in <i>Aspergillus nidulans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 14558-63	11.5	483
418	Genomics-driven discovery of PKS-NRPS hybrid metabolites from <i>Aspergillus nidulans</i> . <i>Nature Chemical Biology</i> , <b>2007</b> , 3, 213-7	11.7	459
417	Chemical ecology of endophytic fungi: origins of secondary metabolites. <i>Chemistry and Biology</i> , <b>2012</b> , 19, 792-8		450
416	Triggering cryptic natural product biosynthesis in microorganisms. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 1753-60	3.9	430
415	Type II polyketide synthases: gaining a deeper insight into enzymatic teamwork. <i>Natural Product Reports</i> , <b>2007</b> , 24, 162-90	15.1	419
414	Exploiting the mosaic structure of trans-acyltransferase polyketide synthases for natural product discovery and pathway dissection. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 225-33	44.5	310
413	The chemistry and biology of cytochalasans. <i>Natural Product Reports</i> , <b>2010</b> , 27, 869-86	15.1	288
412	Symbiotic Streptomycetes provide antibiotic combination prophylaxis for wasp offspring. <i>Nature Chemical Biology</i> , <b>2010</b> , 6, 261-3	11.7	269
411	Biosynthesis and attachment of novel bacterial polyketide synthase starter units. <i>Natural Product Reports</i> , <b>2002</b> , 19, 70-99	15.1	268
410	Enzymatic Carbon-Sulfur Bond Formation in Natural Product Biosynthesis. <i>Chemical Reviews</i> , <b>2017</b> , 117, 5521-5577	68.1	260
409	Bacteria-induced natural product formation in the fungus <i>Aspergillus nidulans</i> requires Saga/Ada-mediated histone acetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 14282-7	11.5	254
408	Genomics-inspired discovery of natural products. <i>Current Opinion in Chemical Biology</i> , <b>2011</b> , 15, 22-31	9.7	197
407	Die biosynthetische Grundlage der Polyketid-Vielfalt. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 4782-4811	3.6	181

406	A gene cluster encoding rhizoxin biosynthesis in "Burkholderia rhizoxina", the bacterial endosymbiont of the fungus <i>Rhizopus microsporus</i> . <i>ChemBioChem</i> , <b>2007</b> , 8, 41-5	3.8	179
405	Molecular basis of cytochalasan biosynthesis in fungi: gene cluster analysis and evidence for the involvement of a PKS-NRPS hybrid synthase by RNA silencing. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9564-5	16.4	175
404	Endosymbiont-dependent host reproduction maintains bacterial-fungal mutualism. <i>Current Biology</i> , <b>2007</b> , 17, 773-7	6.3	173
403	Advances in cloning, functional analysis and heterologous expression of fungal polyketide synthase genes. <i>Journal of Biotechnology</i> , <b>2006</b> , 124, 690-703	3.7	154
402	Comparative and functional genomics provide insights into the pathogenicity of dermatophytic fungi. <i>Genome Biology</i> , <b>2011</b> , 12, R7	18.3	147
401	Molecular diversity sculpted by fungal PKS-NRPS hybrids. <i>ChemBioChem</i> , <b>2013</b> , 14, 28-42	3.8	145
400	Closthioamide: an unprecedented polythioamide antibiotic from the strictly anaerobic bacterium <i>Clostridium cellulolyticum</i> . <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2011-3	16.4	145
399	Xiamycin, a pentacyclic indolosesquiterpene with selective anti-HIV activity from a bacterial mangrove endophyte. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2010</b> , 20, 6685-7	2.9	145
398	Iteration as programmed event during polyketide assembly; molecular analysis of the aureothin biosynthesis gene cluster. <i>Chemistry and Biology</i> , <b>2003</b> , 10, 1225-32		145
397	<i>Burkholderia rhizoxinica</i> sp. nov. and <i>Burkholderia endofungorum</i> sp. nov., bacterial endosymbionts of the plant-pathogenic fungus <i>Rhizopus microsporus</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 2583-2590	2.2	144
396	Biosynthesis and function of gliotoxin in <i>Aspergillus fumigatus</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 467-72	5.7	140
395	Cloning, sequencing and analysis of the enterocin biosynthesis gene cluster from the marine isolate 'Streptomyces maritimus': evidence for the derailment of an aromatic polyketide synthase. <i>Chemistry and Biology</i> , <b>2000</b> , 7, 943-55		137
394	A family of multicyclic indolosesquiterpenes from a bacterial endophyte. <i>Organic and Biomolecular Chemistry</i> , <b>2011</b> , 9, 4029-31	3.9	132
393	Fungal phytotoxins as mediators of virulence. <i>Current Opinion in Plant Biology</i> , <b>2009</b> , 12, 390-8	9.9	128
392	Discovery of aspoquinolones A-D, prenylated quinoline-2-one alkaloids from <i>Aspergillus nidulans</i> , motivated by genome mining. <i>Organic and Biomolecular Chemistry</i> , <b>2006</b> , 4, 3517-20	3.9	128
391	Antimitotic rhizoxin derivatives from a cultured bacterial endosymbiont of the rice pathogenic fungus <i>Rhizopus microsporus</i> . <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11529-36	16.4	127
390	Rhizonin, the first mycotoxin isolated from the zygomycota, is not a fungal metabolite but is produced by bacterial endosymbionts. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 793-7	4.8	123
389	Activation of a silent fungal polyketide biosynthesis pathway through regulatory cross talk with a cryptic nonribosomal peptide synthetase gene cluster. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 8143-9	4.8	115

388	Ribosomal synthesis of tricyclic depsipeptides in bloom-forming cyanobacteria. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7756-9	16.4	115
387	Transannular disulfide formation in gliotoxin biosynthesis and its role in self-resistance of the human pathogen <i>Aspergillus fumigatus</i> . <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 10136-41	16.4	110
386	Microalgae in the postgenomic era: a blooming reservoir for new natural products. <i>FEMS Microbiology Reviews</i> , <b>2012</b> , 36, 761-85	15.1	109
385	The MAP kinase MpkA controls cell wall integrity, oxidative stress response, gliotoxin production and iron adaptation in <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , <b>2011</b> , 82, 39-53	4.1	106
384	Analysis of the <i>Aspergillus fumigatus</i> proteome reveals metabolic changes and the activation of the pseurotin A biosynthesis gene cluster in response to hypoxia. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 2508-24	5.6	103
383	Molecular basis for mycophenolic acid biosynthesis in <i>Penicillium brevicompactum</i> . <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 3035-43	4.8	102
382	Biosynthetic origin of the rare nitroaryl moiety of the polyketide antibiotic aureothin: involvement of an unprecedented N-oxygenase. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3694-5	16.4	99
381	Molecular bacteria-fungi interactions: effects on environment, food, and medicine. <i>Annual Review of Microbiology</i> , <b>2013</b> , 67, 375-97	17.5	98
380	Bacterium induces cryptic meroterpenoid pathway in the pathogenic fungus <i>Aspergillus fumigatus</i> . <i>ChemBioChem</i> , <b>2013</b> , 14, 938-42	3.8	98
379	Phenalenone-type phytoalexins mediate resistance of banana plants ( <i>Musa</i> spp.) to the burrowing nematode <i>Radopholus similis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 105-10	11.5	97
378	A dedicated glutathione S-transferase mediates carbon-sulfur bond formation in gliotoxin biosynthesis. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12322-5	16.4	97
377	Microcyclamide biosynthesis in two strains of <i>Microcystis aeruginosa</i> : from structure to genes and vice versa. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 1791-7	4.8	97
376	Optimisation of a 2-D gel electrophoresis protocol for the human-pathogenic fungus <i>Aspergillus fumigatus</i> . <i>Current Genetics</i> , <b>2006</b> , 49, 178-89	2.9	96
375	Functionally distinct modules operate two consecutive alpha,beta-->beta,gamma double-bond shifts in the rhizoxin polyketide assembly line. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1460-4	16.4	95
374	Antibiotic-producing symbionts dynamically transition between plant pathogenicity and insect-defensive mutualism. <i>Nature Communications</i> , <b>2017</b> , 8, 15172	17.4	94
373	Vinylogous chain branching catalysed by a dedicated polyketide synthase module. <i>Nature</i> , <b>2013</b> , 502, 124-8	50.4	93
372	Plant-like biosynthetic pathways in bacteria: from benzoic acid to chalcone. <i>Journal of Natural Products</i> , <b>2002</b> , 65, 1956-62	4.9	90
371	Terpenoid biosynthesis off the beaten track: unconventional cyclases and their impact on biomimetic synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 2604-26	16.4	88

370	Evolution of an endofungal lifestyle: Deductions from the <i>Burkholderia rhizoxinica</i> genome. <i>BMC Genomics</i> , <b>2011</b> , 12, 210	4.5	86
369	Genomics-driven discovery of burkholderic acid, a noncanonical, cryptic polyketide from human pathogenic <i>Burkholderia</i> species. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11611-5	16.4	85
368	Bacterial synthesis of diverse indole terpene alkaloids by an unparalleled cyclization sequence. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10293-7	16.4	85
367	Endofungal bacterium controls its host by an hrp type III secretion system. <i>ISME Journal</i> , <b>2011</b> , 5, 252-61	11.9	85
366	Structure and alignment of the membrane-associated peptaibols ampullosporin A and alamethicin by oriented 15N and 31P solid-state NMR spectroscopy. <i>Biophysical Journal</i> , <b>2009</b> , 96, 86-100	2.9	85
365	Biosynthesis and structure of aeruginoside 126A and 126B, cyanobacterial peptide glycosides bearing a 2-carboxy-6-hydroxyoctahydroindole moiety. <i>Chemistry and Biology</i> , <b>2007</b> , 14, 565-576		85
364	Antibiotics from neglected bacterial sources. <i>International Journal of Medical Microbiology</i> , <b>2014</b> , 304, 14-22	3.7	84
363	Symbiont-Derived Antimicrobials Contribute to the Control of the Lepidopteran Gut Microbiota. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 66-75	8.2	81
362	Terrein biosynthesis in <i>Aspergillus terreus</i> and its impact on phytotoxicity. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 719-31		79
361	A genomic approach to the cryptic secondary metabolome of the anaerobic world. <i>Natural Product Reports</i> , <b>2013</b> , 30, 392-428	15.1	78
360	Keratin degradation by dermatophytes relies on cysteine dioxygenase and a sulfite efflux pump. <i>Journal of Investigative Dermatology</i> , <b>2013</b> , 133, 1550-5	4.3	77
359	Complete genome sequence of <i>Burkholderia rhizoxinica</i> , an Endosymbiont of <i>Rhizopus microsporus</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 783-4	3.5	77
358	Botryorhodines A-D, antifungal and cytotoxic depsidones from <i>Botryosphaeria rhodina</i> , an endophyte of the medicinal plant <i>Bidens pilosa</i> . <i>Phytochemistry</i> , <b>2010</b> , 71, 110-6	4	77
357	Plasticity and evolution of aeruginosin biosynthesis in cyanobacteria. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 2017-26	4.8	76
356	Active invasion of bacteria into living fungal cells. <i>ELife</i> , <b>2014</b> , 3, e03007	8.9	76
355	Genome mining for ribosomally synthesized and post-translationally modified peptides (RiPPs) in anaerobic bacteria. <i>BMC Genomics</i> , <b>2014</b> , 15, 983	4.5	75
354	Biosynthesis of nitro compounds. <i>ChemBioChem</i> , <b>2007</b> , 8, 973-7	3.8	75
353	Exploiting the natural diversity of microviridin gene clusters for discovery of novel tricyclic depsipeptides. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 3568-74	4.8	74

- 352 Bioinspired total synthesis of sespenine. *Angewandte Chemie - International Edition*, **2014**, 53, 9012-6 16.4 73
- 351 Divergolides A-D from a mangrove endophyte reveal an unparalleled plasticity in ansa-macrolide biosynthesis. *Angewandte Chemie - International Edition*, **2011**, 50, 1630-4 16.4 72
- 350 Biosynthesis of the antitumor agent chartreusin involves the oxidative rearrangement of an anthracyclic polyketide. *Chemistry and Biology*, **2005**, 12, 579-88 72
- 349 Formation of the aureothin tetrahydrofuran ring by a bifunctional cytochrome p450 monooxygenase. *Journal of the American Chemical Society*, **2004**, 126, 16742-3 16.4 71
- 348 Endofungal bacteria as producers of mycotoxins. *Trends in Microbiology*, **2009**, 17, 570-6 12.4 70
- 347 Multifactorial induction of an orphan PKS-NRPS gene cluster in *Aspergillus terreus*. *Chemistry and Biology*, **2011**, 18, 198-209 69
- 346 Opposed effects of enzymatic gliotoxin N- and S-methylations. *Journal of the American Chemical Society*, **2014**, 136, 11674-9 16.4 68
- 345 Functional genomic profiling of *Aspergillus fumigatus* biofilm reveals enhanced production of the mycotoxin gliotoxin. *Proteomics*, **2010**, 10, 3097-107 4.8 68
- 344 A gene cluster encoding resistomycin biosynthesis in *Streptomyces resistomycificus*; exploring polyketide cyclization beyond linear and angucyclic patterns. *Journal of the American Chemical Society*, **2004**, 126, 2298-9 16.4 68
- 343 Decoding and reprogramming complex polyketide assembly lines: prospects for synthetic biology. *Trends in Biochemical Sciences*, **2015**, 40, 189-99 10.3 67
- 342 Evolution of host resistance in a toxin-producing bacterial-fungal alliance. *ISME Journal*, **2008**, 2, 632-41 11.9 66
- 341 Global distribution and evolution of a toxinogenic *Burkholderia-Rhizopus* symbiosis. *Applied and Environmental Microbiology*, **2009**, 75, 2982-6 4.8 65
- 340 Induced biosynthesis of cryptic polyketide metabolites in a *Burkholderia thailandensis* quorum sensing mutant. *Journal of the American Chemical Society*, **2010**, 132, 13966-8 16.4 64
- 339 Polyketide-chain branching by an enzymatic Michael addition. *Angewandte Chemie - International Edition*, **2009**, 48, 5001-4 16.4 64
- 338 Sequential enzymatic oxidation of aminoarenes to nitroarenes via hydroxylamines. *Angewandte Chemie - International Edition*, **2005**, 44, 4083-7 16.4 64
- 337 Biosynthesis of the halogenated mycotoxin aspirochlorine in koji mold involves a cryptic amino acid conversion. *Angewandte Chemie - International Edition*, **2014**, 53, 13409-13 16.4 63
- 336 Molecular analysis of the benastatin biosynthetic pathway and genetic engineering of altered fatty acid-polyketide hybrids. *Journal of the American Chemical Society*, **2007**, 129, 6022-30 16.4 63
- 335 Biosynthesis of the respiratory toxin bongkrekic acid in the pathogenic bacterium *Burkholderia gladioli*. *Chemistry and Biology*, **2012**, 19, 1164-74 62

334	Non-colinear polyketide biosynthesis in the aureothin and neoareothin pathways: an evolutionary perspective. <i>ChemBioChem</i> , <b>2007</b> , 8, 1841-9	3.8	61
333	Symbiotic cooperation in the biosynthesis of a phytotoxin. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 9615-8	16.4	59
332	A cryptic PKS-NRPS gene locus in the plant commensal <i>Pseudomonas fluorescens</i> Pf-5 codes for the biosynthesis of an antimetabolic rhizoxin complex. <i>Organic and Biomolecular Chemistry</i> , <b>2007</b> , 5, 2211-33.9	3.9	58
331	Regiodivergent N-C and N-N aryl coupling reactions of indoloterpenes and cycloether formation mediated by a single bacterial flavoenzyme. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 9040-3	16.4	57
330	Structural fine-tuning of a multifunctional cytochrome P450 monooxygenase. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2292-302	16.4	57
329	Closthioamide: An Unprecedented Polythioamide Antibiotic from the Strictly Anaerobic Bacterium <i>Clostridium cellulolyticum</i> . <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2055-2057	3.6	56
328	Biosynthesis of polyunsaturated fatty acids by polyketide synthases. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 1866-9	16.4	55
327	The molecular basis of conjugated polyene biosynthesis in phytopathogenic bacteria. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7794-8	16.4	54
326	Sequential asymmetric polyketide heterocyclization catalyzed by a single cytochrome P450 monooxygenase (AurH). <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 8872-5	16.4	54
325	Mutasynthesis of aureonitrile: an aureothin derivative with significantly improved cytostatic effect. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 1202-5	16.4	54
324	Context-dependent behavior of the enterocin iterative polyketide synthase; a new model for ketoreduction. <i>Chemistry and Biology</i> , <b>2004</b> , 11, 461-8		53
323	A Plant-like Biosynthesis of Benzoyl-CoA in the Marine Bacterium <i>Streptomyces maritimus</i> . <i>Tetrahedron</i> , <b>2000</b> , 56, 9115-9120	2.4	53
322	Aspernidine A and B, prenylated isoindolinone alkaloids from the model fungus <i>Aspergillus nidulans</i> . <i>Journal of Antibiotics</i> , <b>2010</b> , 63, 375-7	3.7	52
321	Gramibactin is a bacterial siderophore with a diazeniumdiolate ligand system. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 841-843	11.7	51
320	A ketosynthase homolog uses malonyl units to form esters in cervimycin biosynthesis. <i>Nature Chemical Biology</i> , <b>2011</b> , 8, 154-61	11.7	51
319	Biosynthesis of pentangular polyphenols: deductions from the benastatin and griseorhodin pathways. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9306-12	16.4	51
318	Functional analysis of the aureothin iterative type I polyketide synthase. <i>ChemBioChem</i> , <b>2005</b> , 6, 908-12	3.8	51
317	An antifungal polyketide associated with horizontally acquired genes supports symbiont-mediated defense in <i>Lagria villosa</i> beetles. <i>Nature Communications</i> , <b>2018</b> , 9, 2478	17.4	51



316	Activation of fungal silent gene clusters: a new avenue to drug discovery. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , <b>2008</b> , 66, 1, 3-12		50
315	A Non-canonical Melanin Biosynthesis Pathway Protects <i>Aspergillus terreus</i> Conidia from Environmental Stress. <i>Cell Chemical Biology</i> , <b>2016</b> , 23, 587-597	8.2	50
314	A branched extender unit shared between two orthogonal polyketide pathways in an endophyte. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4667-70	16.4	49
313	Epidithiodiketopiperazine biosynthesis: a four-enzyme cascade converts glutathione conjugates into transannular disulfide bridges. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11092-5	16.4	47
312	Epidithiol formation by an unprecedented twin carbon-sulfur lyase in the gliotoxin pathway. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10064-8	16.4	47
311	Photochemical origin of the immunosuppressive SNF4435C/D and formation of orinocin through "polyene splicing". <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 7835-8	16.4	47
310	ScbA from <i>Streptomyces coelicolor</i> A3(2) has homology to fatty acid synthases and is able to synthesize gamma-butyrolactones. <i>Microbiology (United Kingdom)</i> , <b>2007</b> , 153, 1394-1404	2.9	47
309	Mutasynthesis of enterocin and wailupemycin analogues. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 9290-1	16.4	47
308	A mechanism of benzoic acid biosynthesis in plants and bacteria that mirrors fatty acid beta-oxidation. <i>ChemBioChem</i> , <b>2001</b> , 2, 784-6	3.8	47
307	Discovery of clostrubin, an exceptional polyphenolic polyketide antibiotic from a strictly anaerobic bacterium. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7856-9	16.4	46
306	Biosynthesis of antifungal and antibacterial polyketides by <i>Burkholderia gladioli</i> in coculture with <i>Rhizopus microsporus</i> . <i>Mycoses</i> , <b>2014</b> , 57 Suppl 3, 48-55	5.2	46
305	Kandenols A-E, eudesmenes from an endophytic <i>Streptomyces</i> sp. of the mangrove tree <i>Kandelia candel</i> . <i>Journal of Natural Products</i> , <b>2012</b> , 75, 2223-7	4.9	46
304	Polyketide proofreading by an acyltransferase-like enzyme. <i>Chemistry and Biology</i> , <b>2012</b> , 19, 329-39		45
303	Biomimetic Thioesters as Probes for Enzymatic Assembly Lines: Synthesis, Applications, and Challenges. <i>Cell Chemical Biology</i> , <b>2016</b> , 23, 1179-1192	8.2	45
302	Structure and action of the N-oxygenase AurF from <i>Streptomyces thioluteus</i> . <i>Journal of Molecular Biology</i> , <b>2007</b> , 373, 65-74	6.5	44
301	The fungal quorum-sensing molecule farnesol activates innate immune cells but suppresses cellular adaptive immunity. <i>MBio</i> , <b>2015</b> , 6, e00143	7.8	43
300	Chemical warfare between leafcutter ant symbionts and a co-evolved pathogen. <i>Nature Communications</i> , <b>2018</b> , 9, 2208	17.4	43
299	Tuf of <i>Streptococcus pneumoniae</i> is a surface displayed human complement regulator binding protein. <i>Molecular Immunology</i> , <b>2014</b> , 62, 249-64	4.3	43



298	Imaging mass spectrometry and genome mining reveal highly antifungal virulence factor of mushroom soft rot pathogen. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 13173-7	16.4	43
297	Nitro versus hydroxamate in siderophores of pathogenic bacteria: effect of missing hydroxylamine protection in malleobactin biosynthesis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8271-5	16.4	43
296	Exploiting enzymatic promiscuity to engineer a focused library of highly selective antifungal and antiproliferative aureothin analogues. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 10407-13	16.4	43
295	Epicoccarines A, B and epipyridone: tetramic acids and pyridone alkaloids from an <i>Epicoccum</i> sp. associated with the tree fungus <i>Pholiota squarrosa</i> . <i>Organic and Biomolecular Chemistry</i> , <b>2007</b> , 5, 1702-5 <sup>3.9</sup>		43
294	Antiterminator-mediated unveiling of cryptic polythioamides in an anaerobic bacterium. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2425-8	16.4	42
293	Leader peptide and a membrane protein scaffold guide the biosynthesis of the tricyclic peptide microviridin. <i>Chemistry and Biology</i> , <b>2011</b> , 18, 1413-21		41
292	Orchestration of discoid polyketide cyclization in the resistomycin pathway. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8307-16	16.4	41
291	Quercinol, an anti-inflammatory chromene from the wood-rotting fungus <i>Daedalea quercina</i> (Oak Mazegill). <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 2558-60	2.9	41
290	Unexpected Bacterial Origin of the Antibiotic Icosalide: Two-Tailed Depsipeptide Assembly in Multifarious Burkholderia Symbionts. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2414-2420	4.9	41
289	Bacterial Synthesis of Unusual Sulfonamide and Sulfone Antibiotics by Flavoenzyme-Mediated Sulfur Dioxide Capture. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13279-83	16.4	40
288	Functionally Distinct Modules Operate Two Consecutive $\beta$ - $\beta$ Double-Bond Shifts in the Rhizoxin Polyketide Assembly Line. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 1502-1506	3.6	40
287	An unusual galactofuranose lipopolysaccharide that ensures the intracellular survival of toxin-producing bacteria in their fungal host. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7476-80	16.4	40
286	Pseudoxylallemycins A-F, Cyclic Tetrapeptides with Rare Allenyl Modifications Isolated from <i>Pseudoxylaria</i> sp. X802: A Competitor of Fungus-Growing Termite Cultivars. <i>Organic Letters</i> , <b>2016</b> , 18, 3338-41	6.2	39
285	Nostopeptolide plays a governing role during cellular differentiation of the symbiotic cyanobacterium <i>Nostoc punctiforme</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 1862-7	11.5	39
284	Cytotoxic pheofungins from an engineered fungus impaired in posttranslational protein modification. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9843-7	16.4	39
283	Regio- and chemoselective enzymatic N-oxygenation in vivo, in vitro, and in flow. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 8016-8	16.4	39
282	On-line enzymatic tailoring of polyketides and peptides in thiotemplate systems. <i>Current Opinion in Chemical Biology</i> , <b>2016</b> , 31, 82-94	9.7	38
281	Antagonistic bacteria disrupt calcium homeostasis and immobilize algal cells. <i>Nature Communications</i> , <b>2017</b> , 8, 1756	17.4	38

- 280 Plant pathogenic anaerobic bacteria use aromatic polyketides to access aerobic territory. *Science*, **2015**, 350, 670-4 33.3 37
- 279 Biosynthesis of the antimetabolite 6-thioguanine in *Erwinia amylovora* plays a key role in fire blight pathogenesis. *Angewandte Chemie - International Edition*, **2013**, 52, 10564-8 16.4 37
- 278 Antimicrobial discovery inspired by ecological interactions. *Current Opinion in Microbiology*, **2017**, 39, 121-127 7.9 37
- 277 Convergent asymmetric synthesis of (+)-aureothin employing an oxygenase-mediated resolution step. *Angewandte Chemie - International Edition*, **2012**, 51, 9587-91 16.4 37
- 276 Synthetic remodeling of the chartreusin pathway to tune antiproliferative and antibacterial activities. *Journal of the American Chemical Society*, **2013**, 135, 17408-16 16.4 37
- 275 Distinct amino acids of histone H3 control secondary metabolism in *Aspergillus nidulans*. *Applied and Environmental Microbiology*, **2013**, 79, 6102-9 4.8 37
- 274 Impact of endofungal bacteria on infection biology, food safety, and drug development. *PLoS Pathogens*, **2011**, 7, e1002096 7.6 37
- 273 Cervimycin A-D: a polyketide glycoside complex from a cave bacterium can defeat vancomycin resistance. *Chemistry - A European Journal*, **2005**, 11, 5523-30 4.8 37
- 272 Vegetation-derived abscisic acid and four terpenes enforce dormancy in seeds of the post-fire annual, *Nicotiana attenuata*. *Seed Science Research*, **2002**, 12, 239-252 1.3 37
- 271 Phytotoxin production in *Aspergillus terreus* is regulated by independent environmental signals. *ELife*, **2015**, 4, 8.9 37
- 270 Three Redundant Synthetases Secure Redox-Active Pigment Production in the Basidiomycete *Paxillus involutus*. *Chemistry and Biology*, **2015**, 22, 1325-34 36
- 269 Mediators of mutualistic microbe-microbe interactions. *Natural Product Reports*, **2018**, 35, 303-308 15.1 36
- 268 Flavoenzyme-catalyzed formation of disulfide bonds in natural products. *Angewandte Chemie - International Edition*, **2014**, 53, 2221-4 16.4 36
- 267 Anaerobic bacteria as producers of antibiotics. *Applied Microbiology and Biotechnology*, **2012**, 96, 61-7 5.7 36
- 266 Mutasynthese von Aureonitril, einem Aureothin-Derivat mit signifikant verbesserter zytostatischer Aktivität. *Angewandte Chemie*, **2005**, 117, 1226-1230 3.6 36
- 265 Rational design of modular polyketide synthases: morphing the aureothin pathway into a luteoreticulin assembly line. *Angewandte Chemie - International Edition*, **2014**, 53, 1560-4 16.4 35
- 264 The boat-shaped polyketide resistoflavin results from re-facial central hydroxylation of the discoid metabolite resistomycin. *Journal of the American Chemical Society*, **2006**, 128, 14619-24 16.4 35
- 263 Detection of antibiotics synthesized in microfluidic picolitre-droplets by various actinobacteria. *Scientific Reports*, **2018**, 8, 13087 4.9 35

262	Genomics-Driven Discovery of NO-Donating Diazeniumdiolate Siderophores in Diverse Plant-Associated Bacteria. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13024-13029	16.4	34
261	Harnessing the evolvability of tricyclic microviridins to dissect protease-inhibitor interactions. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3735-8	16.4	34
260	Cytotoxic alkaloids from <i>Fusarium incarnatum</i> associated with the mangrove tree <i>Aegiceras corniculatum</i> . <i>Journal of Natural Products</i> , <b>2012</b> , 75, 617-21	4.9	34
259	Multifactorial control of iteration events in a modular polyketide assembly line. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5285-9	16.4	33
258	Epicoccamides B-D, glycosylated tetramic acid derivatives from an <i>Epicoccum</i> sp. associated with the tree fungus <i>Pholiota squarrosa</i> . <i>Journal of Natural Products</i> , <b>2007</b> , 70, 1800-3	4.9	33
257	Dissection of the late steps in aureothin biosynthesis. <i>ChemBioChem</i> , <b>2006</b> , 7, 37-9	3.8	33
256	Metal-Free Synthesis of Pharmaceutically Important Biaryls by Photosplicing. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14476-14481	16.4	32
255	Bioinspired Total Synthesis of Sespenine. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9158-9162	3.6	32
254	Artificial reconstruction of two cryptic angucycline antibiotic biosynthetic pathways. <i>ChemBioChem</i> , <b>2007</b> , 8, 1577-84	3.8	32
253	Natural 1,3-Dipolar Cycloadditions. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 12550-2	16.4	31
252	Cryptic polyketide synthase genes in non-pathogenic <i>Clostridium</i> SPP. <i>PLoS ONE</i> , <b>2012</b> , 7, e29609	3.7	31
251	Factors supporting cysteine tolerance and sulfite production in <i>Candida albicans</i> . <i>Eukaryotic Cell</i> , <b>2013</b> , 12, 604-13		31
250	Differential expression of silent polyketide biosynthesis gene clusters in chemostat cultures of <i>Aspergillus nidulans</i> . <i>Journal of Biotechnology</i> , <b>2012</b> , 160, 64-71	3.7	30
249	Evolution of metabolic diversity in polyketide-derived pyrones: using the non-colinear aureothin assembly line as a model system. <i>Phytochemistry</i> , <b>2009</b> , 70, 1833-40	4	30
248	Benzopyrenomycin, a cytotoxic bacterial polyketide metabolite with a benzo[a]pyrene-type carbocyclic ring system. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3995-8	16.4	30
247	Formation of a dinuclear copper(I) complex from the <i>Clostridium</i> -derived antibiotic closthioamide. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 10745-8	16.4	29
246	Evolutionary imprint of catalytic domains in fungal PKS-NRPS hybrids. <i>ChemBioChem</i> , <b>2012</b> , 13, 2363-73	3.8	29
245	Assembly and absolute configuration of short-lived polyketides from <i>Burkholderia thailandensis</i> . <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5470-4	16.4	29

244	Highly Efficient Total Synthesis of the Clostridium-Derived anti-MRSA Antibiotic Closthioamide. <i>European Journal of Organic Chemistry</i> , <b>2011</b> , 2011, 1429-1431	3.2	29
243	Two induced fungal polyketide pathways converge into antiproliferative spiroanthrones. <i>ChemBioChem</i> , <b>2011</b> , 12, 1836-9	3.8	29
242	Bacterial Synthesis of Diverse Indole Terpene Alkaloids by an Unparalleled Cyclization Sequence. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 10439-10443	3.6	28
241	Epidithiol Formation by an Unprecedented Twin Carbon-Sulfur Lyase in the Gliotoxin Pathway. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 10211-10215	3.6	28
240	A binuclear manganese cluster that catalyzes radical-mediated N-oxygenation. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8605-8	16.4	28
239	Inotilone and related phenylpropanoid polyketides from <i>Inonotus</i> sp. and their identification as potent COX and XO inhibitors. <i>Organic and Biomolecular Chemistry</i> , <b>2006</b> , 4, 2545-8	3.9	28
238	Terpenoid-Biosynthese abseits bekannter Wege: unkonventionelle Cyclasen und ihre Bedeutung für die biomimetische Synthese. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2640-2664	3.6	27
237	Mode of action of closthioamide: the first member of the polythioamide class of bacterial DNA gyrase inhibitors. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2015</b> , 70, 2576-88	5.1	27
236	Transcriptome analysis of cyclic AMP-dependent protein kinase A-regulated genes reveals the production of the novel natural compound fumipyrrole by <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , <b>2015</b> , 96, 148-62	4.1	27
235	Anti-inflammatory and anti-hyaluronate lyase activities of lanostanoids from <i>Piptoporus betulinus</i> . <i>Journal of Antibiotics</i> , <b>2004</b> , 57, 755-8	3.7	27
234	Mining and unearthing hidden biosynthetic potential. <i>Nature Communications</i> , <b>2021</b> , 12, 3864	17.4	27
233	Enzymatic polyketide chain branching to give substituted lactone, lactam, and glutarimide heterocycles. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11645-9	16.4	26
232	Plasticity in gilvocarcin-type C-glycoside pathways: discovery and antitumoral evaluation of polycarcin V from <i>Streptomyces polyformus</i> . <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 3601-5	3.9	26
231	Geminal bismethylation prevents polyketide oxidation and dimerization in the benastatin pathway. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7035-8	16.4	26
230	Chemoenzymatic total synthesis of the antiproliferative polyketide (+)-(R)-aureothin. <i>ChemBioChem</i> , <b>2008</b> , 9, 2064-6	3.8	26
229	Freedom and constraint in engineered noncolinear polyketide assembly lines. <i>Chemistry and Biology</i> , <b>2015</b> , 22, 229-40		25
228	Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11955-9	16.4	25
227	Daldionin, an Unprecedented Binaphthyl Derivative, and Diverse Polyketide Congeners from a Fungal Orchid Endophyte. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 4551-5	4.8	25

226	Toxin production by bacterial endosymbionts of a <i>Rhizopus microsporus</i> strain used for tempe/sufu processing. <i>International Journal of Food Microbiology</i> , <b>2010</b> , 136, 368-71	5.8	25
225	Geminal tandem C-methylation in the discoid resistomycin pathway. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12648-9	16.4	25
224	Targeted induction of a silent fungal gene cluster encoding the bacteria-specific germination inhibitor fumigermin. <i>ELife</i> , <b>2020</b> , 9,	8.9	25
223	Induced Chemical Defense of a Mushroom by a Double-Bond-Shifting Polyene Synthase. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5937-5941	16.4	24
222	Total synthesis of the antitumor natural product polycarcin V and evaluation of its DNA binding profile. <i>Organic Letters</i> , <b>2014</b> , 16, 2962-5	6.2	24
221	Functional analysis of environmental DNA-derived microviridins provides new insights into the diversity of the tricyclic peptide family. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 1380-7	4.8	24
220	A functional link between hyphal maintenance and quorum sensing in <i>Candida albicans</i> . <i>Molecular Microbiology</i> , <b>2017</b> , 103, 595-617	4.1	24
219	Natural Products as Source of Therapeutics against Parasitic Diseases. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14622-4	16.4	24
218	Polyketide-Chain Branching by an Enzymatic Michael Addition. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 5101-5104	16.4	24
217	Lack of evidence of endosymbiotic toxin-producing bacteria in clinical <i>Rhizopus</i> isolates. <i>Mycoses</i> , <b>2008</b> , 51, 266-9	5.2	24
216	Squarrosidine and Pinillidine: 3,3'-Fused Bis(styrylpyrones) from <i>Pholiota squarrosa</i> and <i>Phellinus pini</i> . <i>European Journal of Organic Chemistry</i> , <b>2007</b> , 2007, 3292-3295	3.2	24
215	Sequential Asymmetric Polyketide Heterocyclization Catalyzed by a Single Cytochrome P450 Monooxygenase (AurH). <i>Angewandte Chemie</i> , <b>2008</b> , 120, 9004-9007	3.6	24
214	Horizontal Gene Transfer to a Defensive Symbiont with a Reduced Genome in a Multipartite Beetle Microbiome. <i>MBio</i> , <b>2020</b> , 11,	7.8	24
213	Chromatin mapping identifies BasR, a key regulator of bacteria-triggered production of fungal secondary metabolites. <i>ELife</i> , <b>2018</b> , 7,	8.9	24
212	Polyketide synthase chimeras reveal key role of ketosynthase domain in chain branching. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 949-51	11.7	23
211	Two Types of Threonine-Tagged Lipopeptides Synergize in Host Colonization by Pathogenic Burkholderia Species. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1370-1379	4.9	23
210	A concise total synthesis of sепенine, a structurally unusual indole terpenoid from <i>Streptomyces</i> . <i>Organic Chemistry Frontiers</i> , <b>2016</b> , 3, 368-374	5.2	23
209	Biosynthetic code for divergolide assembly in a bacterial mangrove endophyte. <i>ChemBioChem</i> , <b>2014</b> , 15, 1274-9	3.8	23

208	Elaiomycins D-F, antimicrobial and cytotoxic azoxides from <i>Streptomyces</i> sp. strain HKI0708. <i>Journal of Natural Products</i> , <b>2012</b> , 75, 1729-34	4.9	23
207	Pitucamycin: structural merger of a phenoxazinone with an epoxyquinone antibiotic. <i>Journal of Natural Products</i> , <b>2010</b> , 73, 1461-4	4.9	23
206	Photochemische Herkunft der Immunsuppressiva SNF4435C/D und Bildung von Orinocin durch Bolyen-Splicing <i>Angewandte Chemie</i> , <b>2006</b> , 118, 7999-8002	3.6	23
205	Biosynthesis of cervimycin C, an aromatic polyketide antibiotic bearing an unusual dimethylmalonyl moiety. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 2411-4	3.9	23
204	A Pair of Bacterial Siderophores Releases and Traps an Intercellular Signal Molecule: An Unusual Case of Natural Nitrene Bioconjugation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 200-204	16.4	23
203	Discovery of an Extended Austinoid Biosynthetic Pathway in <i>Aspergillus calidoustus</i> . <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 1227-1234	4.9	22
202	A Fivefold Parallelized Biosynthetic Process Secures Chlorination of <i>Armillaria mellea</i> (Honey Mushroom) Toxins. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 1196-1204	4.8	22
201	Plasticity of the malleobactin pathway and its impact on siderophore action in human pathogenic bacteria. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8010-4	4.8	22
200	Epicoccalone, a Coumarin-Type Chymotrypsin Inhibitor, and Isobenzofuran Congeners from an <i>Epicoccum</i> sp. Associated with a Tree Fungus. <i>European Journal of Organic Chemistry</i> , <b>2008</b> , 2008, 3781-3784	3.2	22
199	Sequenzielle enzymatische Oxidation von Aminoarenen zu Nitroarenen über Hydroxylamine. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 4152-4155	3.6	22
198	Bacaryolanes A-C, Rare Bacterial Caryolanes from a Mangrove Endophyte. <i>Journal of Natural Products</i> , <b>2015</b> , 78, 2963-7	4.9	21
197	Evolution of siderophore pathways in human pathogenic bacteria. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 5599-602	16.4	21
196	Biosynthesis and mass spectrometric imaging of tolaasin, the virulence factor of brown blotch mushroom disease. <i>ChemBioChem</i> , <b>2013</b> , 14, 2439-43	3.8	21
195	Interchain retrotransfer of aureothin intermediates in an iterative polyketide synthase module. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12382-5	16.4	21
194	Hydrazidomycins, cytotoxic alkylhydrazides from <i>Streptomyces atratus</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2011</b> , 21, 5839-41	2.9	21
193	Emulating evolutionary processes to morph aureothin-type modular polyketide synthases and associated oxygenases. <i>Nature Communications</i> , <b>2019</b> , 10, 3918	17.4	20
192	Cyclopropanol Warhead in Malleicyprol Confers Virulence of Human- and Animal-Pathogenic <i>Burkholderia</i> Species. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14129-14133	16.4	20
191	Biosynthesis of the Halogenated Mycotoxin Aspirochlorine in Koji Mold Involves a Cryptic Amino Acid Conversion. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13627-13631	3.6	20



190	Genomics-Driven Discovery of Burkholderic Acid, a Noncanonical, Cryptic Polyketide from Human Pathogenic Burkholderia Species. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11779-11783	3.6	20
189	Epidithiodiketopiperazine Biosynthesis: A Four-Enzyme Cascade Converts Glutathione Conjugates into Transannular Disulfide Bridges. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11298-11301	3.6	20
188	Biosynthesis of the mitochondrial adenine nucleotide translocase (ATPase) inhibitor bongkreik acid in Burkholderia gladioli. <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 1520-2	3.9	20
187	Ketosynthase III as a gateway to engineering the biosynthesis of antitumoral benastatin derivatives. <i>Journal of Biotechnology</i> , <b>2009</b> , 140, 107-13	3.7	20
186	Enzymatic Thioamide Formation in a Bacterial Antimetabolite Pathway. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11574-11578	16.4	20
185	Rational design of an apoptosis-inducing photoreactive DNA intercalator. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6185-9	16.4	19
184	Regiodivergent N <sup>2</sup> C and N <sup>2</sup> N Aryl Coupling Reactions of Indoloterpenes and Cycloether Formation Mediated by a Single Bacterial Flavoenzyme. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 9210-9213	3.6	19
183	Bezerramycins A <sub>1</sub> , Antiproliferative Phenoxazinones from Streptomyces griseus Featuring Carboxy, Carboxamide or Nitrile Substituents. <i>European Journal of Organic Chemistry</i> , <b>2010</b> , 2010, 231-235 <sup>2</sup>	3.2	19
182	Simultaneous Production of Psilocybin and a Cocktail of $\beta$ -Carboline Monoamine Oxidase Inhibitors in "Magic" Mushrooms. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 729-734	4.8	19
181	Genome Editing Reveals Novel Thioemplated Assembly of Polythioamide Antibiotics in Anaerobic Bacteria. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14080-14084	16.4	19
180	High-Density Cultivation of Terrestrial Nostoc Strains Leads to Reprogramming of Secondary Metabolome. <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	18
179	A Highly Conserved Basidiomycete Peptide Synthetase Produces a Trimeric Hydroxamate Siderophore. <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	18
178	Pyran formation by an atypical CYP-mediated four-electron oxygenation-cyclization cascade in an engineered aureothin pathway. <i>ChemBioChem</i> , <b>2012</b> , 13, 2196-9	3.8	18
177	Antiterminator-Mediated Unveiling of Cryptic Polythioamides in an Anaerobic Bacterium. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 2475-2478	3.6	18
176	Copper(II) Triflate in Organic Synthesis. <i>Journal für Praktische Chemie</i> , <b>2000</b> , 342, 316-321		18
175	Cryptic indole hydroxylation by a non-canonical terpenoid cyclase parallels bacterial xenobiotic detoxification. <i>Nature Communications</i> , <b>2017</b> , 8, 15804	17.4	17
174	Farinamycin, a quinazoline from Streptomyces griseus. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 2265-8	4.9	17
173	Divergolides AD from a Mangrove Endophyte Reveal an Unparalleled Plasticity in ansa-Macrolide Biosynthesis. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1668-1672	3.6	17

172	Biosynthesis and charging of pyrrolysine, the 22nd genetically encoded amino acid. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9540-1	16.4	17
171	Antifungal potential of secondary metabolites involved in the interaction between citrus pathogens. <i>Scientific Reports</i> , <b>2019</b> , 9, 18647	4.9	17
170	Genomics-driven discovery of a linear lipopeptide promoting host colonization by endofungal bacteria. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 8345-8352	3.9	17
169	Divergolide congeners illuminate alternative reaction channels for ansamycin diversification. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 1618-23	3.9	16
168	Symbiotic Cooperation in the Biosynthesis of a Phytotoxin. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9753-9756	3.6	16
167	Assessing oxazole bioisosteres as mutasynthons on the rhizoxin assembly line. <i>ChemBioChem</i> , <b>2011</b> , 12, 2284-8	3.8	16
166	Chemical Mediators at the Bacterial-Fungal Interface. <i>Annual Review of Microbiology</i> , <b>2020</b> , 74, 267-290	17.5	16
165	Gliotoxin Biosynthesis: Structure, Mechanism, and Metal Promiscuity of Carboxypeptidase GliJ. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 1874-1882	4.9	15
164	Structural basis of head to head polyketide fusion by CorB. <i>Chemical Science</i> , <b>2015</b> , 6, 6525-6536	9.4	15
163	Insect-Associated Bacteria Assemble the Antifungal Butenolide Gladiofungin by Non-Canonical Polyketide Chain Termination. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23122-23126	16.4	15
162	Genomics-guided discovery of endophenazines from <i>Kitasatospora</i> sp. HKI 714. <i>Journal of Natural Products</i> , <b>2014</b> , 77, 1083-7	4.9	15
161	Control of plant defense mechanisms and fire blight pathogenesis through the regulation of 6-thioguanine biosynthesis in <i>Erwinia amylovora</i> . <i>ChemBioChem</i> , <b>2014</b> , 15, 373-6	3.8	15
160	A polyketide interferes with cellular differentiation in the symbiotic cyanobacterium <i>Nostoc punctiforme</i> . <i>Environmental Microbiology Reports</i> , <b>2011</b> , 3, 550-8	3.7	15
159	Cervimycin C resistance in <i>Bacillus subtilis</i> is due to a promoter up-mutation and increased mRNA stability of the constitutive ABC-transporter gene <i>bmrA</i> . <i>FEMS Microbiology Letters</i> , <b>2010</b> , 313, 155-63	2.9	15
158	Highly parallelized droplet cultivation and prioritization of antibiotic producers from natural microbial communities. <i>ELife</i> , <b>2021</b> , 10,	8.9	15
157	Genomics-Driven Discovery of a Symbiont-Specific Cyclopeptide from Bacteria Residing in the Rice Seedling Blight Fungus. <i>ChemBioChem</i> , <b>2018</b> , 19, 2167-2172	3.8	14
156	Mapping of the modular closthoamide architecture reveals crucial motifs of polythioamide antibiotics. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15451-8	4.8	14
155	Hygrobafilomycin, a cytotoxic and antifungal macrolide bearing a unique monoalkylmaleic anhydride moiety, from <i>Streptomyces varsoviensis</i> . <i>Journal of Antibiotics</i> , <b>2010</b> , 63, 359-63	3.7	14

154	Regio- and Chemoselective Enzymatic N-Oxygenation In Vivo, In Vitro, and in Flow. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 8184-8186	3.6	14
153	The multiplasmid approach: a new perspective for combinatorial biosynthesis. <i>ChemBioChem</i> , <b>2000</b> , 1, 103-6	3.8	14
152	Metabolic Pathway Rerouting in Evolved Long-Overlooked Derivatives of Coenzyme F. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 2088-2094	4.9	13
151	Food preparation with mucoralean fungi: A potential biosafety issue?. <i>Fungal Biology</i> , <b>2016</b> , 120, 393-401	2.8	13
150	Formation of a Dinuclear Copper(I) Complex from the Clostridium-Derived Antibiotic Closthioamide. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 10945-10948	3.6	13
149	Isoflavones with unusually modified B-rings and their evaluation as antiproliferative agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 6473-6	2.9	13
148	An Unusual Galactofuranose Lipopolysaccharide That Ensures the Intracellular Survival of Toxin-Producing Bacteria in Their Fungal Host. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7638-7642	3.6	13
147	Stereochemical specificity of lamoxirene, the sperm-releasing pheromone in kelp (Laminariales, Phaeophyceae). <i>Biological Bulletin</i> , <b>2001</b> , 201, 121-5	1.5	13
146	Asymmetric $\beta$ -Chloroallylboration of Amino Aldehydes: A Novel and Highly Versatile Route to d- and l-erythro-Sphingoid Bases $\square$ <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 4426-4430	4.2	13
145	Clostrindolin is an antimycobacterial pyrone alkaloid from <i>Clostridium beijerinckii</i> . <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 6119-6121	3.9	12
144	Genomics-Driven Discovery of NO-Donating Diazeniumdiolate Siderophores in Diverse Plant-Associated Bacteria. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13158-13163	3.6	12
143	Structure, genetics and function of an exopolysaccharide produced by a bacterium living within fungal hyphae. <i>ChemBioChem</i> , <b>2015</b> , 16, 387-92	3.8	12
142	Tandem reduction-chloroallylboration of esters: asymmetric synthesis of lamoxirene, the spermatozoid releasing and attracting pheromone of the laminariales (Phaeophyceae). <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 2458-63	4.2	12
141	Injury-Triggered Blueing Reactions of <i>Psilocybe</i> "Magic" Mushrooms. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1450-1454	16.4	12
140	Disruption of Membrane Integrity by the Bacterium-Derived Antifungal Jagaricin. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2019</b> , 63,	5.9	11
139	Biosynthesis of Diverse Antimicrobial and Antiproliferative Acyloins in Anaerobic Bacteria. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 1490-1497	4.9	11
138	Reconstitution of polythioamide antibiotic backbone formation reveals unusual thiotemplated assembly strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 8850-8858	11.5	11
137	A giant type I polyketide synthase participates in zygospore maturation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , <b>2018</b> , 95, 268-281	6.9	11

136	Reconstitution of Iterative Thioamidation in Closthioamide Biosynthesis Reveals Tailoring Strategy for Nonribosomal Peptide Backbones. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13014-13018 <sup>16.4</sup>	11
135	Biosynthesis of the Antimetabolite 6-Thioguanine in <i>Erwinia amylovora</i> Plays a Key Role in Fire Blight Pathogenesis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 10758-10762	3.6 11
134	Twofold polyketide branching by a stereoselective enzymatic Michael addition. <i>Chemical Communications</i> , <b>2015</b> , 51, 9872-5	5.8 11
133	Convergent Asymmetric Synthesis of (+)-Aureothin Employing an Oxygenase-Mediated Resolution Step. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9725-9729	3.6 11
132	Structural characterization of two lipopolysaccharide O-antigens produced by the endofungal bacterium <i>Burkholderia</i> sp. HKI-402 (B4). <i>Carbohydrate Research</i> , <b>2012</b> , 347, 95-8	2.9 11
131	Semisynthetic preparation of leucomycin derivatives: introduction of aromatic side chains by reductive amination. <i>Molecular Diversity</i> , <b>2005</b> , 9, 27-32	3.1 11
130	Gliotoxin from <i>Aspergillus fumigatus</i> Abrogates Leukotriene B Formation through Inhibition of Leukotriene A Hydrolase. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 524-534.e5	8.2 10
129	Metal-Free Synthesis of Pharmaceutically Important Biaryls by Photosplicing. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 14684-14689	3.6 10
128	Synthesis and biological evaluation of hydrazidomycin analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2013</b> , 23, 6043-5	2.9 10
127	The Molecular Basis of Conjugated Polyene Biosynthesis in Phytopathogenic Bacteria. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 7928-7932	3.6 10
126	Nitro versus Hydroxamate in Siderophores of Pathogenic Bacteria: Effect of Missing Hydroxylamine Protection in Malleobactin Biosynthesis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8429-8433	3.6 10
125	Multifactorial Control of Iteration Events in a Modular Polyketide Assembly Line. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 5393-5397	3.6 10
124	Ribosomal Synthesis of Tricyclic Depsipeptides in Bloom-Forming Cyanobacteria. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 7870-7873	3.6 10
123	Comparison of Proteomic Responses as Global Approach to Antibiotic Mechanism of Action Elucidation. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2020</b> , 65,	5.9 10
122	Lichen-like association of <i>Chlamydomonas reinhardtii</i> and <i>Aspergillus nidulans</i> protects algal cells from bacteria. <i>ISME Journal</i> , <b>2020</b> , 14, 2794-2805	11.9 10
121	Chain release mechanisms in polyketide and non-ribosomal peptide biosynthesis. <i>Natural Product Reports</i> , <b>2021</b> ,	15.1 10
120	Melleolides impact fungal translation via elongation factor 2. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 4906-4916	3.9 9
119	Genome Mining Reveals Endopyrroles From a Nonribosomal Peptide Assembly Line Triggered in Fungal-Bacterial Symbiosis. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 1811-1818	4.9 9

118	Flavoenzym-katalysierte Bildung von Disulfidbrücken in Naturstoffen. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2253-2256	3.6	9
117	Biosynthesis of archetypal plant self-defensive oxylipins by an endophytic fungus residing in mangrove embryos. <i>ChemBioChem</i> , <b>2012</b> , 13, 2661-4	3.8	9
116	Antiproliferative effects of ester- and amide-functionalized rhizoxin derivatives. <i>ChemMedChem</i> , <b>2011</b> , 6, 1998-2001	3.7	9
115	A ribonucleotide reductase-like electron transfer system in the nitroaryl-forming N-oxygenase AurF. <i>ChemBioChem</i> , <b>2011</b> , 12, 1832-5	3.8	9
114	Biosynthesis of Fungal Polyketides <b>2009</b> , 331-351		9
113	Geminal Bismethylation Prevents Polyketide Oxidation and Dimerization in the Benastatin Pathway. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 7165-7168	3.6	9
112	Nebularic Acids and Nebularilactones, Novel Drimane Sesquiterpenoids from the Fungus <i>Lepista nebularis</i> . <i>European Journal of Organic Chemistry</i> , <b>2006</b> , 2006, 1643-1646	3.2	9
111	Biosynthese von mehrfach ungesättigten Fettsäuren durch Polyketid-Synthasen. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 1947	3.6	9
110	Characterization of <i>Burkholderia rhizoxinica</i> and <i>B. endofungorum</i> isolated from clinical specimens. <i>PLoS ONE</i> , <b>2011</b> , 6, e15731	3.7	9
109	Genome Mining and Heterologous Expression Reveal Two Distinct Families of Lasso Peptides Highly Conserved in Endofungal Bacteria. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 1169-1176	4.9	9
108	Unique Biosynthetic Pathway in Bloom-Forming Cyanobacterial Genus <i>Microcystis</i> Jointly Assembles Cytotoxic Aeruginoguanidines and Microguanidines. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 67-75	4.9	9
107	Specialized Flavoprotein Promotes Sulfur Migration and Spiroaminal Formation in <i>Aspirochlorine</i> Biosynthesis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 206-213	16.4	9
106	Loss of Single-Domain Function in a Modular Assembly Line Alters the Size and Shape of a Complex Polyketide. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18252-18256	16.4	8
105	Mining Symbionts of a Spider-Transmitted Fungus Illuminates Uncharted Biosynthetic Pathways to Cytotoxic Benzolactones. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 7766-7771	16.4	8
104	Reconstitution of Enzymatic Carbon-Sulfur Bond Formation Reveals Detoxification-Like Strategy in Fungal Toxin Biosynthesis. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2508-2512	4.9	8
103	Enzymatic Amide Tailoring Promotes Retro-Aldol Amino Acid Conversion To Form the Antifungal Agent <i>Aspirochlorine</i> . <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14051-14054	16.4	8
102	Matrix-free single-cell LDI-MS investigations of the diatoms <i>Coscinodiscus granii</i> and <i>Thalassiosira pseudonana</i> . <i>Journal of Mass Spectrometry</i> , <b>2014</b> , 49, 136-44	2.2	8
101	Genome Sequence of Mushroom Soft-Rot Pathogen <i>Janthinobacterium agaricidamnosum</i> . <i>Genome Announcements</i> , <b>2015</b> , 3,		8

100	Natürliche 1,3-dipolare Cycloadditionen. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 12732-12734	3.6	8
99	Dandamycin and chandrananimycin E, benzoxazines from <i>Streptomyces griseus</i> . <i>Journal of Antibiotics</i> , <b>2015</b> , 68, 463-8	3.7	8
98	Discovery of Clostrubin, an Exceptional Polyphenolic Polyketide Antibiotic from a Strictly Anaerobic Bacterium. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 7990-7993	3.6	8
97	Imaging Mass Spectrometry and Genome Mining Reveal Highly Antifungal Virulence Factor of Mushroom Soft Rot Pathogen. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 13350-13354	3.6	8
96	Type II PKS <b>2010</b> , 227-303		8
95	Reductive Chloro- and Thioallylations: Stereoselective Two-Step Transformations of Esters and Lactones into Functionalized cis- and trans-Vinyl oxiranes. <i>European Journal of Organic Chemistry</i> , <b>1998</b> , 1998, 2143-2148	3.2	8
94	A Highly Efficient and Versatile Synthesis of d- and l-erythro-Sphinganine. <i>Synlett</i> , <b>2001</b> , 2001, 1965-1967	2.2	8
93	Helper bacteria halt and disarm mushroom pathogens by linearizing structurally diverse cyclolipopeptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 23802-23806	11.5	8
92	A Pair of Bacterial Siderophores Releases and Traps an Intercellular Signal Molecule: An Unusual Case of Natural Nitron Bioconjugation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 206-210	3.6	8
91	Electrochemical monitoring of ROS generation by anticancer agents: the case of chartreusin. <i>RSC Advances</i> , <b>2017</b> , 7, 45200-45210	3.7	7
90	Oak-Associated Negativicute Equipped with Ancestral Aromatic Polyketide Synthase Produces Antimycobacterial Dendrubins. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 13147-13151	4.8	7
89	On-Line Polyketide Cyclization into Diverse Medium-Sized Lactones by a Specialized Ketosynthase Domain. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11223-11227	16.4	7
88	Enzymatische Polyketid-Kettenverzweigung zur Bildung substituierter Lacton-, Lactam- und Glutarimidheterocyclen. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 11829-11833	3.6	7
87	Draft Genome Sequences of Symbiotic and Nonsymbiotic <i>Rhizopus microsporus</i> Strains CBS 144.29 and ATCC 62417. <i>Genome Announcements</i> , <b>2015</b> , 3,		7
86	A Branched Extender Unit Shared between Two Orthogonal Polyketide Pathways in an Endophyte. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4763-4766	3.6	7
85	Serinal-derived vinyl oxiranes as novel and versatile building blocks for the stereoselective synthesis of D- and L-erythro-sphingosines. <i>Chemical Communications</i> , <b>1998</b> , 1955	5.8	7
84	Efficient synthesis of 9- and 13-oxo leucomycin derivatives using hypervalent iodine reagents in solution and on solid support. <i>Journal of Natural Products</i> , <b>2005</b> , 68, 112-4	4.9	7
83	Sulfonium Acids Loaded onto an Unusual Thio-template Assembly Line Construct the Cyclopropanol Warhead of a <i>Burkholderia</i> Virulence Factor. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13511-13515	16.4	7



82	Metal-Free Aryl Cross-Coupling Directed by Traceless Linkers. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 16068	4.8	6
81	Concise Total Synthesis of Hydrazidomycin A, a Rare Hydrazide Metabolite of <i>Streptomyces atratus</i> . <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 4242-4244	3.2	6
80	Bacterial Synthesis of Unusual Sulfonamide and Sulfone Antibiotics by Flavoenzyme-Mediated Sulfur Dioxide Capture. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13477-13481	3.6	6
79	Photochemical oxazole-nitrile conversion downstream of rhizoxin biosynthesis and its impact on antimetabolic activity. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 5756-9	3.9	6
78	Assembly and Absolute Configuration of Short-Lived Polyketides from <i>Burkholderia thailandensis</i> . <i>Angewandte Chemie</i> , <b>2012</b> , 124, 5566-5570	3.6	6
77	Biosynthese und Einbau von Pyrrolysin, der 22. genetisch codierten Aminosäure. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 9712-9714	3.6	6
76	Structural and biochemical basis for the firm chemo- and regioselectivity of the nitro-forming N-oxygenase AurF. <i>Chemical Communications</i> , <b>2010</b> , 46, 7760-2	5.8	6
75	Horse liver alcohol dehydrogenase (HLADH); biocatalytic redox-transformations in organic synthesis. <i>Journal für Praktische Chemie, Chemiker-Zeitung</i> , <b>1997</b> , 339, 754-757		6
74	Highly efficient synthesis of (E)-lamoxirene, the gamete-releasing and gamete-attracting pheromone of the Laminariales (Phaeophyta). <i>Tetrahedron</i> , <b>1997</b> , 53, 14651-14654	2.4	6
73	A Binuclear Manganese Cluster That Catalyzes Radical-Mediated N-Oxygenation. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 8759-8762	3.6	6
72	Aldolase Antibody 38C2: A Biocatalyst Expanding the Scope of Enzymatic Transformations. <i>Journal für Praktische Chemie</i> , <b>2000</b> , 342, 832-835		6
71	Food-Poisoning Bacteria Employ a Citrate Synthase and a Type II NRPS To Synthesize Bolaamphiphilic Lipopeptide Antibiotics*. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21535-21540	16.4	6
70	A widespread bacterial phenazine forms S-conjugates with biogenic thiols and crosslinks proteins. <i>Chemical Science</i> , <b>2016</b> , 7, 4848-4855	9.4	6
69	Genome Editing Reveals Novel Thiotemplated Assembly of Polythioamide Antibiotics in Anaerobic Bacteria. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 14276-14280	3.6	6
68	Bacterial endosymbionts protect beneficial soil fungus from nematode attack. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
67	Mapping Natural Dyes in Archeological Textiles by Imaging Mass Spectrometry. <i>Scientific Reports</i> , <b>2019</b> , 9, 2331	4.9	5
66	Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12134-12138	3.6	5
65	Enzymatic Thioamide Formation in a Bacterial Antimetabolite Pathway. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11748-11752	3.6	5

64	Analyse von Protease-Inhibitor-Interaktionen unter Nutzung evolvierbarer tricyclischer Microviridine. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3810-3813	3.6	5
63	Zincophorin - biosynthesis in <i>Streptomyces griseus</i> and antibiotic properties. <i>GMS Infectious Diseases</i> , <b>2016</b> , 4, Doc08	0.9	5
62	Biosynthesis of Sinapigladioside, an Antifungal Isothiocyanate from <i>Burkholderia Symbionts</i> . <i>ChemBioChem</i> , <b>2021</b> , 22, 1920-1924	3.8	5
61	A polyene toxin produced by an antagonistic bacterium blinds and lyses a <i>Chlamydomonas</i> alga. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
60	Induzierte chemische Verteidigung eines Ständerpilzes durch eine doppelbindungsverschiebende Polyensynthese. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6031-6035	3.6	4
59	Bipiperidine conjugates as soluble sugar surrogates in DNA-intercalating antiproliferative polyketides. <i>Chemical Communications</i> , <b>2016</b> , 52, 4894-7	5.8	4
58	Rational Design of Modular Polyketide Synthases: Morphing the Aureothin Pathway into a Luteoretulin Assembly Line. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1586-1590	3.6	4
57	Rational Design of an Apoptosis-Inducing Photoreactive DNA Intercalator. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6305-6309	3.6	4
56	Benzopyrenomycin, a Cytotoxic Bacterial Polyketide Metabolite with a Benzo[a]pyrene-Type Carbocyclic Ring System. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 4059-4062	3.6	4
55	B-Methoxydiisopinocampheylborane (Ipc <sup>2</sup> BOME): A Pinene Based Auxiliary for Asymmetric C-C Bond-Forming Reactions. <i>Journal für Praktische Chemie</i> , <b>1999</b> , 341, 83-87		4
54	Fungal Genome Mining and Activation of Silent Gene Clusters <b>2009</b> , 297-303		4
53	Identification and Mobilization of a Cryptic Antibiotic Biosynthesis Gene Locus from a Human-Pathogenic Isolate. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 1161-1168	4.9	4
52	Injury-Triggered Blueing Reactions of <i>Psilocybe Magic</i> Mushrooms. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1466-1470	3.6	4
51	Structural investigation of the lipopolysaccharide O-chain isolated from <i>Burkholderia fungorum</i> strain DSM 17061. <i>Carbohydrate Research</i> , <b>2016</b> , 433, 31-5	2.9	4
50	Iron Coordination Properties of Gramibactin as Model for the New Class of Diazeniumdiolate Based Siderophores. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 2724-2733	4.8	4
49	The bacterium <i>Pseudomonas protegens</i> antagonizes the microalga <i>Chlamydomonas reinhardtii</i> using a blend of toxins. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 5525-5540	5.2	4
48	Loss of Single-Domain Function in a Modular Assembly Line Alters the Size and Shape of a Complex Polyketide. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18420-18424	3.6	3
47	Structural and Conformational Study of the O-Antigenic Portion of the Lipopolysaccharide Isolated from <i>Burkholderia gladioli</i> pv. <i>cocovenenans</i> . <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 748-753 <sup>2</sup>	3.2	3

46	Reconstitution of Iterative Thioamidation in Closthioamide Biosynthesis Reveals Tailoring Strategy for Nonribosomal Peptide Backbones. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13148-13152	3.6	3
45	Cyclopropanol Warhead in Malleicyprol Confers Virulence of Human- and Animal-Pathogenic Burkholderia Species. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14267-14271	3.6	3
44	Porcine pancreatic lipase (PPL) is a versatile biocatalyst in organic synthesis. <i>Journal für Praktische Chemie, Chemiker-Zeitung</i> , <b>1997</b> , 339, 200-202		3
43	AoiQ Catalyzes Geminal Dichlorination of 1,3-Diketone Natural Products. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 7267-7271	16.4	3
42	Structural and Mechanistic Insights into C-S Bond Formation in Gliotoxin. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14188-14194	16.4	3
41	N-Heterocyclization in Gliotoxin Biosynthesis is Catalyzed by a Distinct Cytochrome P450 Monooxygenase. <i>ChemBioChem</i> , <b>2021</b> , 22, 336-339	3.8	3
40	Enzyme-Primed Native Chemical Ligation Produces Autoinducing Cyclopeptides in Clostridia. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10670-10679	16.4	3
39	Oxygenated Geosmins and Plant-like Eudesmanes from a Bacterial Mangrove Endophyte. <i>Journal of Natural Products</i> , <b>2020</b> , 83, 2207-2211	4.9	2
38	Naturstoffe als Quelle für Therapeutika gegen parasitäre Krankheiten. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14830-14832	3.6	2
37	Microalgae in the postgenomic era: a blooming reservoir for new natural products. <i>FEMS Microbiology Reviews</i> , <b>2013</b> , 37, 284-284	15.1	2
36	Metabolic pathway rerouting in <i>Paraburkholderia rhizoxinica</i> evolved long-overlooked derivatives of coenzyme F420		2
35	Secreted TAL effectors protect symbiotic bacteria from entrapment within fungal hyphae		2
34	Fungal chromatin mapping identifies BasR, as the regulatory node of bacteria-induced fungal secondary metabolism		2
33	Horizontal gene transfer to a defensive symbiont with a reduced genome amongst a multipartite beetle microbiome		2
32	Multimodal Molecular Imaging and Identification of Bacterial Toxins Causing Mushroom Soft Rot and Cavity Disease. <i>ChemBioChem</i> , <b>2021</b> , 22, 2901-2907	3.8	2
31	Discovery of the <i>Pseudomonas</i> Polyene Protegencin by a Phylogeny-Guided Study of Polyene Biosynthetic Gene Cluster Diversity. <i>MBio</i> , <b>2021</b> , 12, e0071521	7.8	2
30	Ribosome-independent peptide biosynthesis: the challenge of a unifying nomenclature. <i>Natural Product Reports</i> , <b>2021</b> ,	15.1	2
29	Insect-Associated Bacteria Assemble the Antifungal Butenolide Gladiofungin by Non-Canonical Polyketide Chain Termination. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23322-23326	3.6	1

28	Plant-like cadinane sesquiterpenes from an actinobacterial mangrove endophyte. <i>Magnetic Resonance in Chemistry</i> , <b>2021</b> , 59, 34-42	2.1	1
27	Cytotoxic Pheofungins from an Engineered Fungus Impaired in Posttranslational Protein Modification. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 10017-10021	3.6	1
26	Fusaric acid detoxification: a strategy of <i>Gliocladium roseum</i> involved in its antagonism against <i>Fusarium verticillioides</i> .. <i>Mycotoxin Research</i> , <b>2022</b> , 38, 13	4	1
25	Highly parallelized microfluidic droplet cultivation and prioritization on antibiotic producers from complex natural microbial communities		1
24	A polyene toxin produced by an antagonistic bacterium blinds and lyses a green microalga		1
23	Exploration of polyene biosynthetic gene cluster diversity in bacteria leads to the discovery of the <i>Pseudomonas</i> polyene protegencin		1
22	Bacterial cell wall-degrading enzymes induce basidiomycete natural product biosynthesis. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 4360-4371	5.2	1
21	Sulfonium Acids Loaded onto an Unusual Thio-template Assembly Line Construct the Cyclopropanol Warhead of a <i>Burkholderia</i> Virulence Factor. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13613-13617	3.6	1
20	An Unexpected Split-Merge Pathway in the Assembly of the Symmetric Nonribosomal Peptide Antibiotic Closthioamide. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4104-4109	16.4	1
19	Induced Production, Synthesis, and Immunomodulatory Action of Clostrisulfone, a Diarylsulfone from <i>Clostridium acetobutylicum</i> . <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 15855-15858	4.8	1
18	Zinc(II)-Assisted Aryl Finkelstein Reaction for the Synthesis of Aryl Iodides. <i>Synlett</i> , <b>2016</b> , 27, 1794-1797	2.2	0
17	Enzymatic Amide Tailoring Promotes Retro-Aldol Amino Acid Conversion To Form the Antifungal Agent Aspirochlorine. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 14247-14250	3.6	0
16	Food-Poisoning Bacteria Employ a Citrate Synthase and a Type II NRPS To Synthesize Bolaamphiphilic Lipopeptide Antibiotics**. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21719-21724	3.6	0
15	Enzyme-Primed Native Chemical Ligation Produces Autoinducing Cyclopeptides in <i>Clostridia</i> . <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10765-10774	3.6	0
14	Strukturelle und mechanistische Einblicke in die Bildung der C-S-Bindungen in Gliotoxin. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14307-14314	3.6	0
13	An Unexpected Split-Merge Pathway in the Assembly of the Symmetric Nonribosomal Peptide Antibiotic Closthioamide. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4150-4155	3.6	0
12	Mining Symbionts of a Spider-Transmitted Fungus Illuminates Uncharted Biosynthetic Pathways to Cytotoxic Benzolactones. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 7840-7845	3.6	
11	Discovery of Amidotemplated Natural Product Assembly. <i>Biochemistry</i> , <b>2019</b> , 58, 4583-4584	3.2	

- 10 Titelbild: Biosynthesis of the Halogenated Mycotoxin Aspirochlorine in Koji Mold Involves a Cryptic Amino Acid Conversion (Angew. Chem. 49/2014). *Angewandte Chemie*, **2014**, 126, 13511-13511 3.6
- 9 Titelbild: Convergent Asymmetric Synthesis of (+)-Aureothin Employing an Oxygenase-Mediated Resolution Step (Angew. Chem. 38/2012). *Angewandte Chemie*, **2012**, 124, 9593-9593 3.6
- 8 Titelbild: Epidithiol Formation by an Unprecedented Twin Carbon-Sulfur Lyase in the Gliotoxin Pathway (Angew. Chem. 40/2012). *Angewandte Chemie*, **2012**, 124, 10083-10083 3.6
- 7 Innentitelbild: Rational Design of an Apoptosis-Inducing Photoreactive DNA Intercalator (Angew. Chem. 24/2013). *Angewandte Chemie*, **2013**, 125, 6239-6239 3.6
- 6 Titelbild: Biosynthesis of the Antimetabolite 6-Thioguanine in *Erwinia amylovora* Plays a Key Role in Fire Blight Pathogenesis (Angew. Chem. 40/2013). *Angewandte Chemie*, **2013**, 125, 10583-10583 3.6
- 5 Titelbild: Polyketide-Chain Branching by an Enzymatic Michael Addition (Angew. Chem. 27/2009). *Angewandte Chemie*, **2009**, 121, 4965-4965 3.6
- 4 Cover Picture: Polyketide-Chain Branching by an Enzymatic Michael Addition (Angew. Chem. Int. Ed. 27/2009). *Angewandte Chemie - International Edition*, **2009**, 48, 4869-4869 16.4
- 3 Inside Cover: Ribosomal Synthesis of Tricyclic Depsipeptides in Bloom-Forming Cyanobacteria (Angew. Chem. Int. Ed. 40/2008). *Angewandte Chemie - International Edition*, **2008**, 47, 7566-7566 16.4
- 2 Innentitelbild: Ribosomal Synthesis of Tricyclic Depsipeptides in Bloom-Forming Cyanobacteria (Angew. Chem. 40/2008). *Angewandte Chemie*, **2008**, 120, 7678-7678 3.6
- 1 On-Line Polyketide Cyclization into Diverse Medium-Sized Lactones by a Specialized Ketosynthase Domain. *Angewandte Chemie*, **2018**, 130, 11393-11397 3.6