Kirstin Scherlach

List of Publications by Year
in descending order

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85 papers	6,405 citations	71102 41 h-index	69250 77 g-index
105 all docs	105 docs citations	105 times ranked	5650 citing authors

#	Article	IF	Citations
1	Alternative Benzoxazole Assembly Discovered in Anaerobic Bacteria Provides Access to Privileged Heterocyclic Scaffold. Angewandte Chemie - International Edition, 2022, 61, .	13.8	5
2	Nâ€Heterocyclization in Gliotoxin Biosynthesis is Catalyzed by a Distinct Cytochrome P450 Monooxygenase. ChemBioChem, 2021, 22, 336-339.	2.6	8
3	Highly parallelized droplet cultivation and prioritization of antibiotic producers from natural microbial communities. ELife, 2021, 10, .	6.0	44
4	Biosynthesis of Sinapigladioside, an Antifungal Isothiocyanate from Burkholderia Symbionts. ChemBioChem, 2021, 22, 1920-1924.	2.6	17
5	AoiQ Catalyzes Geminal Dichlorination of 1,3-Diketone Natural Products. Journal of the American Chemical Society, 2021, 143, 7267-7271.	13.7	16
6	Structural and Mechanistic Insights into Cî’S Bond Formation in Gliotoxin. Angewandte Chemie - International Edition, 2021, 60, 14188-14194.	13.8	6
7	Strukturelle und mechanistische Einblicke in die Bildung der Câ€Sâ€Bindungen in Gliotoxin. Angewandte Chemie, 2021, 133, 14307-14314.	2.0	1
8	Mining and unearthing hidden biosynthetic potential. Nature Communications, 2021, 12, 3864.	12.8	134
9	Multimodal Molecular Imaging and Identification of Bacterial Toxins Causing Mushroom Soft Rot and Cavity Disease. ChemBioChem, 2021, 22, 2901-2907.	2.6	11
10	Chemical Mediators at the Bacterial-Fungal Interface. Annual Review of Microbiology, 2020, 74, 267-290.	7.3	46
11	Foodâ€Poisoning Bacteria Employ a Citrate Synthase and a Typeâ€...II NRPS To Synthesize Bolaamphiphilic Lipopeptide Antibiotics**. Angewandte Chemie - International Edition, 2020, 59, 21535-21540.	13.8	10
12	Lichen-like association of Chlamydomonas reinhardtii and Aspergillus nidulans protects algal cells from bacteria. ISME Journal, 2020, 14, 2794-2805.	9.8	30
13	Foodâ€Poisoning Bacteria Employ a Citrate Synthase and a Typeâ€...II NRPS To Synthesize Bolaamphiphilic Lipopeptide Antibiotics**. Angewandte Chemie, 2020, 132, 21719-21724.	2.0	1
14	Targeted induction of a silent fungal gene cluster encoding the bacteria-specific germination inhibitor fumigermin. ELife, 2020, 9, .	6.0	56
15	Genome Mining Reveals Endopyrroles from a Nonribosomal Peptide Assembly Line Triggered in Fungalâ€“Bacterial Symbiosis. ACS Chemical Biology, 2019, 14, 1811-1818.	3.4	24
16	Disruption of Membrane Integrity by the Bacterium-Derived Antifungal Jagaricin. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	15
17	Antifungal potential of secondary metabolites involved in the interaction between citrus pathogens. Scientific Reports, 2019, 9, 18647.	3.3	35
18	Two Types of Threonine-Tagged Lipopeptides Synergize in Host Colonization by Pathogenic Burkholderia Species. ACS Chemical Biology, 2018, 13, 1370-1379.	3.4	34

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19	Mediators of mutualistic microbeâ€“microbe interactions. Natural Product Reports, 2018, 35, 303-308.	10.3	77
20	Genomics-driven discovery of a linear lipopeptide promoting host colonization by endofungal bacteria. Organic and Biomolecular Chemistry, 2018, 16, 8345-8352.	2.8	29
21	Unexpected Bacterial Origin of the Antibiotic Icosalide: Two-Tailed Depsipeptide Assembly in Multifarious Burkholderia Symbionts. ACS Chemical Biology, 2018, 13, 2414-2420.	3.4	58
22	Detection of antibiotics synthetized in microfluidic picolitre-droplets by various actinobacteria. Scientific Reports, 2018, 8, 13087.	3.3	52
23	An antifungal polyketide associated with horizontally acquired genes supports symbiont-mediated defense in Lagria villosa beetles. Nature Communications, 2018, 9, 2478.	12.8	86
24	Reconstitution of Enzymatic Carbonâ€“Sulfur Bond Formation Reveals Detoxification-Like Strategy in Fungal Toxin Biosynthesis. ACS Chemical Biology, 2018, 13, 2508-2512.	3.4	12
25	Enzymatic Amide Tailoring Promotes Retroâ€Aldol Amino Acid Conversion To Form the Antifungal Agent Aspirochlorine. Angewandte Chemie - International Edition, 2018, 57, 14051-14054.	13.8	17
26	Enzymatic Amide Tailoring Promotes Retroâ€Aldol Amino Acid Conversion To Form the Antifungal Agent Aspirochlorine. Angewandte Chemie, 2018, 130, 14247-14250.	2.0	3
27	Genomicsâ€Driven Discovery of a Symbiontâ€Specific Cyclopeptide from Bacteria Residing in the Rice Seedling Blight Fungus. ChemBioChem, 2018, 19, 2167-2172.	2.6	27
28	Chemical warfare between leafcutter ant symbionts and a co-evolved pathogen. Nature Communications, 2018, 9, 2208.	12.8	70
29	Chromatin mapping identifies BasR, a key regulator of bacteria-triggered production of fungal secondary metabolites. ELife, 2018, 7, .	6.0	44
30	Discovery of an Extended Austinoid Biosynthetic Pathway in Aspergillus calidoustus. ACS Chemical Biology, 2017, 12, 1227-1234.	3.4	27
31	Antibiotic-producing symbionts dynamically transition between plant pathogenicity and insect-defensive mutualism. Nature Communications, 2017, 8, 15172.	12.8	152
32	Gliotoxin Biosynthesis: Structure, Mechanism, and Metal Promiscuity of Carboxypeptidase GliJ. ACS Chemical Biology, 2017, 12, 1874-1882.	3.4	24
33	A functional link between hyphal maintenance and quorum sensing in Candida albicans. Molecular Microbiology, 2017, 103, 595-617.	2.5	35
34	Structural investigation of the lipopolysaccharide O-chain isolated from Burkholderia fungorum strain DSM 17061. Carbohydrate Research, 2016, 433, 31-35.	2.3	12
35	Draft Genome Sequences of Fungus Aspergillus calidoustus. Genome Announcements, 2016, 4, .	0.8	13
36	Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. Angewandte Chemie, 2016, 128, 12134-12138.	2.0	6

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37	Regioselective Dichlorination of a Nonâ€Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. Angewandte Chemie - International Edition, 2016, 55, 11955-11959.	13.8	31
38	Structural and Conformational Study of the Oâ€Antigenic Portion of the Lipopolysaccharide Isolated from Burkholderia gladioli pv. cocovenenans. European Journal of Organic Chemistry, 2016, 2016, 748-755.	2.4	3
39	Food preparation with mucoralean fungi: A potential biosafety issue?. Fungal Biology, 2016, 120, 393-401.	2.5	19
40	Transcriptome analysis of cyclic <scp>AMP</scp>â€dependent protein kinase <scp>A</scp>â€“regulated genes reveals the production of the novel natural compound fumipyrrole by <scp>A</scp>spergillus fumigatus. Molecular Microbiology, 2015, 96, 148-162.	2.5	37
41	Biosynthesis of antifungal and antibacterial polyketides by Burkholderia gladioli in coculture with Rhizopus microsporus. Mycoses, 2014, 57, 48-55.	4.0	61
42	The Molecular Basis of Conjugated Polyyne Biosynthesis in Phytopathogenic Bacteria. Angewandte Chemie - International Edition, 2014, 53, 7794-7798.	13.8	70
43	Biosynthesis of the Halogenated Mycotoxin Aspirochlorine in Koji Mold Involves a Cryptic Amino Acid Conversion. Angewandte Chemie - International Edition, 2014, 53, 13409-13413.	13.8	90
44	Epidithiodiketopiperazine Biosynthesis: A Fourâ€Enzyme Cascade Converts Glutathione Conjugates into Transannular Disulfide Bridges. Angewandte Chemie - International Edition, 2013, 52, 11092-11095.	13.8	57
45	Molecular Bacteria-Fungi Interactions: Effects on Environment, Food, and Medicine. Annual Review of Microbiology, 2013, 67, 375-397.	7.3	131
46	Biosynthesis and Mass Spectrometric Imaging of Tolaasin, the Virulence Factor of Brown Blotch Mushroom Disease. ChemBioChem, 2013, 14, 2439-2443.	2.6	33
47	Bacterium Induces Cryptic Meroterpenoid Pathway in the Pathogenic Fungus Aspergillus fumigatus. ChemBioChem, 2013, 14, 938-942.	2.6	120
48	Distinct Amino Acids of Histone H3 Control Secondary Metabolism in Aspergillus nidulans. Applied and Environmental Microbiology, 2013, 79, 6102-6109.	3.1	52
49	Biosynthesis of the Respiratory Toxin Bongkrekic Acid in the Pathogenic Bacterium Burkholderia gladioli. Chemistry and Biology, 2012, 19, 1164-1174.	6.0	81
50	Imaging Mass Spectrometry and Genome Mining Reveal Highly Antifungal Virulence Factor of Mushroom Soft Rot Pathogen. Angewandte Chemie - International Edition, 2012, 51, 13173-13177.	13.8	56
51	Differential expression of silent polyketide biosynthesis gene clusters in chemostat cultures of Aspergillus nidulans. Journal of Biotechnology, 2012, 160, 64-71.	3.8	44
52	Proteome analysis of the farnesol-induced stress response in Aspergillus nidulansâ€”The role of a putative dehydrin. Journal of Proteomics, 2012, 75, 4038-4049.	2.4	30
53	Symbiotic Cooperation in the Biosynthesis of a Phytotoxin. Angewandte Chemie - International Edition, 2012, 51, 9615-9618.	13.8	69
54	Epidithiol Formation by an Unprecedented Twin Carbonâ€“Sulfur Lyase in the Gliotoxin Pathway. Angewandte Chemie - International Edition, 2012, 51, 10064-10068.	13.8	56

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55	A ketosynthase homolog uses malonyl units to form esters in cervimycin biosynthesis. Nature Chemical Biology, 2012, 8, 154-161.	8.0	69
56	Photochemical oxazoleâ€“nitrile conversion downstream of rhizoxin biosynthesis and its impact on antimitotic activity. Organic and Biomolecular Chemistry, 2012, 10, 5756.	2.8	7
57	Bacteria-induced natural product formation in the fungus Aspergillus nidulans requires Saga/Ada-mediated histone acetylation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14282-14287.	7.1	322
58	Analysis of the Aspergillus fumigatus Proteome Reveals Metabolic Changes and the Activation of the Pseurotin A Biosynthesis Gene Cluster in Response to Hypoxia. Journal of Proteome Research, 2011, 10, 2508-2524.	3.7	135
59	A Dedicated Glutathione S-Transferase Mediates Carbonâ€“Sulfur Bond Formation in Gliotoxin Biosynthesis. Journal of the American Chemical Society, 2011, 133, 12322-12325.	13.7	118
60	Pyomelanin Formation in Aspergillus fumigatus Requires HmgX and the Transcriptional Activator HmgR but Is Dispensable for Virulence. PLoS ONE, 2011, 6, e26604.	2.5	50
61	Antiproliferative Effects of Esterâ€•and Amideâ€Functionalized Rhizoxin Derivatives. ChemMedChem, 2011, 6, 1998-2001.	3.2	10
62	Cytotoxic Pheofungins from an Engineered Fungus Impaired in Posttranslational Protein Modification. Angewandte Chemie - International Edition, 2011, 50, 9843-9847.	13.8	42
63	Two Induced Fungal Polyketide Pathways Converge into Antiproliferative Spiroanthrones. ChemBioChem, 2011, 12, 1836-1839.	2.6	31
64	Multifactorial Induction of an Orphan PKS-NRPS Gene Cluster in Aspergillus terreus. Chemistry and Biology, 2011, 18, 198-209.	6.0	87
65	Botryorhodines Aâ€“D, antifungal and cytotoxic depsidones from Botryosphaeria rhodina, an endophyte of the medicinal plant Bidens pilosa. Phytochemistry, 2010, 71, 110-116.	2.9	96
66	Toxin production by bacterial endosymbionts of a Rhizopus microsporus strain used for tempe/sufu processing. International Journal of Food Microbiology, 2010, 136, 368-371.	4.7	29
67	Functionally Distinct Modules Operate Two Consecutive Î±,Î²â†'Î²,Î³ Doubleâ€Bond Shifts in the Rhizoxin Polyketide Assembly Line. Angewandte Chemie - International Edition, 2010, 49, 1460-1464.	13.8	102
68	Aspernidine A and B, prenylated isoindolinone alkaloids from the model fungus Aspergillus nidulans. Journal of Antibiotics, 2010, 63, 375-377.	2.0	66
69	The chemistry and biology of cytochalasans. Natural Product Reports, 2010, 27, 869.	10.3	336
70	Biosynthesis of the mitochondrial adenine nucleotide translocase (ATPase) inhibitor bongkrekic acid in Burkholderia gladioli. Organic and Biomolecular Chemistry, 2010, 8, 1520.	2.8	24
71	Activation of a Silent Fungal Polyketide Biosynthesis Pathway through Regulatory Cross Talk with a Cryptic Nonribosomal Peptide Synthetase Gene Cluster. Applied and Environmental Microbiology, 2010, 76, 8143-8149.	3.1	143
72	Titelbild: Polyketide-Chain Branching by an Enzymatic Michael Addition (Angew. Chem. 27/2009). Angewandte Chemie, 2009, 121, 4965-4965.	2.0	0

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73	Polyketideâ€€Chain Branching by an Enzymatic Michael Addition. Angewandte Chemie - International Edition, 2009, 48, 5001-5004.	13.8	70
74	Cover Picture: Polyketide-Chain Branching by an Enzymatic Michael Addition (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	13.8	0
75	Triggering cryptic natural product biosynthesis in microorganisms. Organic and Biomolecular Chemistry, 2009, 7, 1753.	2.8	500
76	Intimate bacterialâ€“fungal interaction triggers biosynthesis of archetypal polyketides in Aspergillus nidulans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14558-14563.	7.1	607
77	Global Distribution and Evolution of a Toxinogenic Burkholderia-Rhizopus Symbiosis. Applied and Environmental Microbiology, 2009, 75, 2982-2986.	3.1	83
78	Fungal Genome Mining and Activation of Silent Gene Clusters. , 2009, , 297-303.		4
79	Activation of fungal silent gene clusters: A new avenue to drug discovery. , 2008, 66, 1-12.		59
80	A cryptic PKSâ€“NRPS gene locus in the plant commensal Pseudomonas fluorescens Pf-5 codes for the biosynthesis of an antimitotic rhizoxin complex. Organic and Biomolecular Chemistry, 2007, 5, 2211-2213.	2.8	62
81	Genomics-driven discovery of PKS-NRPS hybrid metabolites from Aspergillus nidulans. Nature Chemical Biology, 2007, 3, 213-217.	8.0	550
82	Antimitotic Rhizoxin Derivatives from a Cultured Bacterial Endosymbiont of the Rice Pathogenic FungusRhizopusmicrosporus. Journal of the American Chemical Society, 2006, 128, 11529-11536.	13.7	153
83	Discovery of aspoquinolones Aâ€“D, prenylated quinoline-2-one alkaloids from Aspergillus nidulans, motivated by genome mining. Organic and Biomolecular Chemistry, 2006, 4, 3517-3520.	2.8	136
84	The Boat-Shaped Polyketide Resistoflavin Results from Re-Facial Central Hydroxylation of the Discoid Metabolite Resistomycin. Journal of the American Chemical Society, 2006, 128, 14619-14624.	13.7	40
85	Alternative Benzoxazole Assembly Discovered in Anaerobic Bacteria Provides Access to Privileged Heterocyclic Scaffold. Angewandte Chemie, 0, , .	2.0	1