David P. Fewer

List of Publications by Year
in descending order

91 papers	6,924 citations	70961 41 h-index	62479 80 g-index
97 all docs	97 docs citations	97 times ranked	6942 citing authors

#	Article	IF	Citations
1	Improving the coverage of the cyanobacterial phylum using diversity-driven genome sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1053-1058.	3.3	769
2	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	3.9	715
3	Phylogenetic evidence for the early evolution of microcystin synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 568-573.	3.3	432
4	Atlas of nonribosomal peptide and polyketide biosynthetic pathways reveals common occurrence of nonmodular enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9259-9264.	3.3	310
5	Cyanobacterial toxins: biosynthetic routes and evolutionary roots. FEMS Microbiology Reviews, 2013, 37, 23-43.	3.9	282
6	Natural Product Biosynthetic Diversity and Comparative Genomics of the Cyanobacteria. Trends in Microbiology, 2015, 23, 642-652.	3.5	266
7	Cyanobactinsâ€"ribosomal cyclic peptides produced by cyanobacteria. Applied Microbiology and Biotechnology, 2010, 86, 1213-1225.	1.7	258
8	Phylum-wide comparative genomics unravel the diversity of secondary metabolism in Cyanobacteria. BMC Genomics, 2014, 15, 977.	1.2	175
9	Novel morphology in<i>Enteromorpha</i>(Ulvophyceae) forming green tides. American Journal of Botany, 2002, 89, 1756-1763.	0.8	167
10	CyanoMetDB, a comprehensive public database of secondary metabolites from cyanobacteria. Water Research, 2021, 196, 117017.	5.3	142
11	Cyanobacteria produce a high variety of hepatotoxic peptides in lichen symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5886-5891.	3.3	138
12	Discovery of Rare and Highly Toxic Microcystins from Lichen-Associated Cyanobacterium Nostoc sp. Strain IO-102-I. Applied and Environmental Microbiology, 2004, 70, 5756-5763.	1.4	131
13	Identification of geosmin and 2-methylisoborneol in cyanobacteria and molecular detection methods for the producers of these compounds. Water Research, 2015, 68, 56-66.	5.3	114
14	The Natural Products Atlas 2.0: a database of microbially-derived natural products. Nucleic Acids Research, 2022, 50, D1317-D1323.	6.5	112
15	Hassallidins, antifungal glycolipopeptides, are widespread among cyanobacteria and are the end-product of a nonribosomal pathway. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1909-17.	3.3	102
16	Chroococcidiopsis and Heterocyst-Differentiating Cyanobacteria Are Each Other's Closest Living Relatives. Molecular Phylogenetics and Evolution, 2002, 23, 82-90.	1.2	100
17	Two Alternative Starter Modules for the Non-Ribosomal Biosynthesis of Specific Anabaenopeptin Variants in Anabaena (Cyanobacteria). Chemistry and Biology, 2010, 17, 265-273.	6.2	100
18	Recurrent adenylation domain replacement in the microcystin synthetase gene cluster. BMC Evolutionary Biology, 2007, 7, 183.	3.2	97

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19	Insights into the Physiology and Ecology of the Brackish-Water-Adapted Cyanobacterium Nodularia spumigena CCY9414 Based on a Genome-Transcriptome Analysis. PLoS ONE, 2013, 8, e60224.	1.1	95
20	Genome Mining Expands the Chemical Diversity of the Cyanobactin Family to Include Highly Modified Linear Peptides. Chemistry and Biology, 2013, 20, 1033-1043.	6.2	90
21	Direct Evidence for Production of Microcystins by <i>Anabaena</i> Strains from the Baltic Sea. Applied and Environmental Microbiology, 2007, 73, 6543-6550.	1.4	86
22	Antifungal Compounds from Cyanobacteria. Marine Drugs, 2015, 13, 2124-2140.	2.2	83
23	A community resource for paired genomic and metabolomic data mining. Nature Chemical Biology, 2021, 17, 363-368.	3.9	81
24	Genome Mining Demonstrates the Widespread Occurrence of Gene Clusters Encoding Bacteriocins in Cyanobacteria. PLoS ONE, 2011, 6, e22384.	1.1	78
25	Strains of the toxic and bloom-forming <i>Nodularia spumigena</i> (cyanobacteria) can degrade methylphosphonate and release methane. ISME Journal, 2018, 12, 1619-1630.	4.4	75
26	Highly Diverse Cyanobactins in Strains of the Genus <i>Anabaena</i>. Applied and Environmental Microbiology, 2010, 76, 701-709.	1.4	73
27	New Structural Variants of Aeruginosin Produced by the Toxic Bloom Forming Cyanobacterium Nodularia spumigena. PLoS ONE, 2013, 8, e73618.	1.1	65
28	Cultureâ€independent evidence for the persistent presence and genetic diversity of microcystinâ€producing <i>Anabaena</i> (<i>Cyanobacteria</i>) in the Gulf of Finland. Environmental Microbiology, 2009, 11, 855-866.	1.8	64
29	The nonâ€ribosomal assembly and frequent occurrence of the protease inhibitors spumigins in the bloomâ€forming cyanobacterium <i>Nodularia spumigena</i>. Molecular Microbiology, 2009, 73, 924-937.	1.2	63
30	Strains of the cyanobacterial genera Calothrix and Rivularia isolated from the Baltic Sea display cryptic diversity and are distantly related to Gloeotrichia and Tolypothrix. FEMS Microbiology Ecology, 2007, 61, 74-84.	1.3	60
31	Comparison of wintertime eukaryotic community from sea ice and open water in the Baltic Sea, based on sequencing of the 18S rRNA gene. Polar Biology, 2012, 35, 875-889.	0.5	60
32	Molecular evidence for a diverse green algal community growing in the hair of sloths and a specific association with Trichophilus welckeri(Chlorophyta, Ulvophyceae). BMC Evolutionary Biology, 2010, 10, 86.	3.2	58
33	Widespread Occurrence and Lateral Transfer of the Cyanobactin Biosynthesis Gene Cluster in Cyanobacteria. Applied and Environmental Microbiology, 2009, 75, 853-857.	1.4	57
34	Analysis of an Inactive Cyanobactin Biosynthetic Gene Cluster Leads to Discovery of New Natural Products from Strains of the Genus Microcystis. PLoS ONE, 2012, 7, e43002.	1.1	54
35	Genome-derived insights into the biology of the hepatotoxic bloom-forming cyanobacterium Anabaena sp. strain 90. BMC Genomics, 2012, 13, 613.	1.2	52
36	A Unique Tryptophan Câ€Prenyltransferase from the Kawaguchipeptin Biosynthetic Pathway. Angewandte Chemie - International Edition, 2016, 55, 3596-3599.	7.2	49

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37	Phylogeny and Self-Splicing Ability of the Plastid tRNA-Leu Group I Intron. Journal of Molecular Evolution, 2003, 57, 710-720.	0.8	48
38	Evidence for positive selection acting on microcystin synthetase adenylation domains in three cyanobacterial genera. BMC Evolutionary Biology, 2008, 8, 256.	3.2	46
39	Screening for biohydrogen production by cyanobacteria isolated from the Baltic Sea and Finnish lakes. International Journal of Hydrogen Energy, 2010, 35, 1117-1127.	3.8	45
40	Phylogenomic Analysis of the Microviridin Biosynthetic Pathway Coupled with Targeted Chemo-Enzymatic Synthesis Yields Potent Protease Inhibitors. ACS Chemical Biology, 2017, 12, 1538-1546.	1.6	45
41	Microcystin Production in the Tripartite Cyanolichen <i>Peltigera leucophlebia</i>. Molecular Plant-Microbe Interactions, 2009, 22, 695-702.	1.4	43
42	Nostosins, Trypsin Inhibitors Isolated from the Terrestrial Cyanobacterium <i>Nostoc</i> sp. Strain FSN. Journal of Natural Products, 2014, 77, 1784-1790.	1.5	41
43	Antitumor astins originate from the fungal endophyte <i>Cyanodermella asteris</i> living within the medicinal plant <i>Aster tataricus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26909-26917.	3.3	39
44	Genetic diversity in strains of the genus Anabaena isolated from planktonic and benthic habitats of the Gulf of Finland (Baltic Sea). FEMS Microbiology Ecology, 2008, 64, 199-208.	1.3	38
45	Natural occurrence of microcystin synthetase deletion mutants capable of producing microcystins in strains of the genus Anabaena (Cyanobacteria). Microbiology (United Kingdom), 2008, 154, 1007-1014.	0.7	36
46	Simultaneous Production of Anabaenopeptins and Namalides by the Cyanobacterium <i>Nostoc</i> sp. CENA543. ACS Chemical Biology, 2017, 12, 2746-2755.	1.6	35
47	Production of High Amounts of Hepatotoxin Nodularin and New Protease Inhibitors Pseudospumigins by the Brazilian Benthic Nostoc sp. CENA543. Frontiers in Microbiology, 2017, 8, 1963.	1.5	35
48	Phylogenomic Analysis of Secondary Metabolism in the Toxic Cyanobacterial Genera Anabaena, Dolichospermum and Aphanizomenon. Toxins, 2020, 12, 248.	1.5	34
49	Genomic insights into the distribution, genetic diversity and evolution of polyketide synthases and nonribosomal peptide synthetases. Current Opinion in Genetics and Development, 2015, 35, 79-85.	1.5	33
50	Biosynthesis of the Bis-Prenylated Alkaloids Muscoride A and B. ACS Chemical Biology, 2019, 14, 2683-2690.	1.6	32
51	Nostophycin Biosynthesis Is Directed by a Hybrid Polyketide Synthase-Nonribosomal Peptide Synthetase in the Toxic Cyanobacterium Nostoc sp. Strain 152. Applied and Environmental Microbiology, 2011, 77, 8034-8040.	1.4	29
52	Convergent evolution of [D-Leucine1] microcystin-LR in taxonomically disparate cyanobacteria. BMC Evolutionary Biology, 2013, 13, 86.	3.2	29
53	4-Methylproline Guided Natural Product Discovery: Co-Occurrence of 4-Hydroxy- and 4-Methylprolines in Nostoweipeptins and Nostopeptolides. ACS Chemical Biology, 2014, 9, 2646-2655.	1.6	28
54	Antifungal activity improved by coproduction of cyclodextrins and anabaenolysins in Cyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13669-13674.	3.3	27

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55	Discovery of a Pederin Family Compound in a Nonsymbiotic Bloom-Forming Cyanobacterium. ACS Chemical Biology, 2018, 13, 1123-1129.	1.6	27
56	Sphaerocyclamide, a prenylated cyanobactin from the cyanobacterium Sphaerospermopsis sp. LEGE 00249. Scientific Reports, 2018, 8, 14537.	1.6	27
57	Dereplication of Natural Products with Antimicrobial and Anticancer Activity from Brazilian Cyanobacteria. Toxins, 2020, 12, 12.	1.5	27
58	N-Prenylation of Tryptophan by an Aromatic Prenyltransferase from the Cyanobactin Biosynthetic Pathway. Biochemistry, 2018, 57, 6860-6867.	1.2	26
59	Genetic Organization of Anabaenopeptin and Spumigin Biosynthetic Gene Clusters in the Cyanobacterium <i>Sphaerospermopsis torques-reginae</i> ITEP-024. ACS Chemical Biology, 2017, 12, 769-778.	1.6	25
60	Rearranged Biosynthetic Gene Cluster and Synthesis of Hassallidin E in <i>Planktothrix serta</i> PCC 8927. ACS Chemical Biology, 2017, 12, 1796-1804.	1.6	25
61	Alternative Biosynthetic Starter Units Enhance the Structural Diversity of Cyanobacterial Lipopeptides. Applied and Environmental Microbiology, 2019, 85, .	1.4	24
62	Lichen species identity and diversity of cyanobacterial toxins in symbiosis. New Phytologist, 2013, 198, 647-651.	3.5	22
63	Pseudoaeruginosins, Nonribosomal Peptides inNodularia spumigena. ACS Chemical Biology, 2015, 10, 725-733.	1.6	22
64	A pharmaceutical model for the molecular evolution of microbial natural products. FEBS Journal, 2020, 287, 1429-1449.	2.2	22
65	The Swinholide Biosynthesis Gene Cluster from a Terrestrial Cyanobacterium, Nostoc sp. Strain UHCC 0450. Applied and Environmental Microbiology, 2018, 84, .	1.4	21
66	Nonâ€autonomous transposable elements associated with inactivation of microcystin gene clusters in strains of the genus <i>Anabaena</i> isolated from the Baltic Sea. Environmental Microbiology Reports, 2011, 3, 189-194.	1.0	20
67	The Genetic Basis for O-Acetylation of the Microcystin Toxin in Cyanobacteria. Chemistry and Biology, 2013, 20, 861-869.	6.2	20
68	The Biosynthesis of Rare Homo-Amino Acid Containing Variants of Microcystin by a Benthic Cyanobacterium. Marine Drugs, 2019, 17, 271.	2.2	20
69	Doing synthetic biology with photosynthetic microorganisms. Physiologia Plantarum, 2021, 173, 624-638.	2.6	20
70	Cyclic peptide production using a macrocyclase with enhanced substrate promiscuity and relaxed recognition determinants. Chemical Communications, 2017, 53, 10656-10659.	2.2	19
71	Horizontal gene transfer and recombination shape mesorhizobial populations in the gene center ofâ€ƒ the host plantsAstragalus luteolusandAstragalus ernestiiin Sichuan, China. FEMS Microbiology Ecology, 2009, 70, 227-235.	1.3	18
72	Galega orientalis is more diverse than Galega officinalis in Caucasus-whole-genome AFLP analysis and phylogenetics of symbiosis-related genes. Molecular Ecology, 2011, 20, 4808-4821.	2.0	18

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73	Speciation in Red Algae: Members of the Ceramiales as Model Organisms. Integrative and Comparative Biology, 2011, 51, 492-504.	0.9	17
74	Draft genome sequence of Talaromyces islandicus (â€œPenicillium islandicumâ€) WF-38-12, a neglected mold with significant biotechnological potential. Journal of Biotechnology, 2015, 211, 101-102.	1.9	17
75	The Diversity and Evolution of Rhizobia. Microbiology Monographs, 2007, , 3-41.	0.3	16
76	Deinobacterium chartae gen. nov., sp. nov., an extremely radiation-resistant, biofilm-forming bacterium isolated from a Finnish paper mill. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 540-548.	0.8	16
77	Chemical diversity and cellular effects of antifungal cyclic lipopeptides from cyanobacteria. Physiologia Plantarum, 2021, 173, 639-650.	2.6	16
78	The cyclochlorotine mycotoxin is produced by the nonribosomal peptide synthetase CctN in <i>Talaromyces islandicus</i> (â€˜<i>Penicillium islandicum</i>â€™). Environmental Microbiology, 2016, 18, 3728-3741.	1.8	15
79	Shared PKS Module in Biosynthesis of Synergistic Laxaphycins. Frontiers in Microbiology, 2020, 11, 578878.	1.5	14
80	A liquid chromatographyâ€“mass spectrometric method for the detection of cyclic Î²-amino fatty acid lipopeptides. Journal of Chromatography A, 2016, 1438, 76-83.	1.8	13
81	Mining of Cyanobacterial Genomes Indicates Natural Product Biosynthetic Gene Clusters Located in Conjugative Plasmids. Frontiers in Microbiology, 2021, 12, 684565.	1.5	12
82	Potent Inhibitor of Human Trypsins from the Aeruginosin Family of Natural Products. ACS Chemical Biology, 2021, 16, 2537-2546.	1.6	11
83	Discovery of varlaxins, new aeruginosin-type inhibitors of human trypsins. Organic and Biomolecular Chemistry, 2022, 20, 2681-2692.	1.5	8
84	Semi-synthetic puwainaphycin/minutissamide cyclic lipopeptides with improved antifungal activity and limited cytotoxicity. RSC Advances, 2021, 11, 30873-30886.	1.7	7
85	Single cell mutant selection for metabolic engineering of actinomycetes. Metabolic Engineering, 2022, 73, 124-133.	3.6	7
86	A Unique Tryptophan Câ€Prenyltransferase from the Kawaguchipeptin Biosynthetic Pathway. Angewandte Chemie, 2016, 128, 3660-3663.	1.6	6
87	The structure and biosynthesis of heinamides A1â€“A3 and B1â€“B5, antifungal members of the laxaphycin lipopeptide family. Organic and Biomolecular Chemistry, 2021, 19, 5577-5588.	1.5	5
88	Genome Reduction and Secondary Metabolism of the Marine Sponge-Associated Cyanobacterium Leptothoe. Marine Drugs, 2021, 19, 298.	2.2	4
89	Reply to Sasso et al.: Distribution and phylogeny of nonribosomal peptide and polyketide biosynthetic pathways in eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3947-E3947.	3.3	2
90	Cyanobacterial toxins: biosynthetic routes and evolutionary roots. FEMS Microbiology Reviews, 2012, , n/a-n/a.	3.9	2

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91	Fatty Acid Substitutions Modulate the Cytotoxicity of Puwainaphycins/Minutissamides Isolated from the Baltic Sea Cyanobacterium <i>Nodularia harveyana</i> UHCC-0300. ACS Omega, 2022, 7, 11818-11828.	1.6	2