

Rainer Kurmayer

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

71 papers	2,730 citations	30 h-index	52 g-index
80 ext. papers	3,087 ext. citations	4.2 avg, IF	5.16 L-index

#	Paper	IF	Citations
71	Application of real-time PCR for quantification of microcystin genotypes in a population of the toxic cyanobacterium <i>Microcystis</i> sp. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6723-30	4.8	205
70	Diversity of microcystin genes within a population of the toxic cyanobacterium <i>Microcystis</i> spp. in Lake Wannsee (Berlin, Germany). <i>Microbial Ecology</i> , 2002 , 43, 107-18	4.4	177
69	The abundance of microcystin-producing genotypes correlates positively with colony size in <i>Microcystis</i> sp. and determines its microcystin net production in Lake Wannsee. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 787-95	4.8	174
68	Global solutions to regional problems: Collecting global expertise to address the problem of harmful cyanobacterial blooms. A Lake Erie case study. <i>Harmful Algae</i> , 2016 , 54, 223-238	5.3	160
67	Distribution of microcystin-producing and non-microcystin-producing <i>Microcystis</i> sp. in European freshwater bodies: detection of microcystins and microcystin genes in individual colonies. <i>Systematic and Applied Microbiology</i> , 2004 , 27, 592-602	4.2	157
66	Abundance of active and inactive microcystin genotypes in populations of the toxic cyanobacterium <i>Planktothrix</i> spp. <i>Environmental Microbiology</i> , 2004 , 6, 831-41	5.2	149
65	Nontoxic strains of cyanobacteria are the result of major gene deletion events induced by a transposable element. <i>Molecular Biology and Evolution</i> , 2008 , 25, 1695-704	8.3	102
64	Strategies for the co-existence of zooplankton with the toxic cyanobacterium <i>Planktothrix rubescens</i> in Lake Zurich. <i>Journal of Plankton Research</i> , 1999 , 21, 659-683	2.2	93
63	Biosynthesis and structure of aeruginoside 126A and 126B, cyanobacterial peptide glycosides bearing a 2-carboxy-6-hydroxyoctahydroindole moiety. <i>Chemistry and Biology</i> , 2007 , 14, 565-576		85
62	Spatial variation of phytoplankton composition, biovolume, and resulting microcystin concentrations in the Nyanza Gulf (Lake Victoria, Kenya). <i>Hydrobiologia</i> , 2012 , 691, 109-122	2.4	77
61	Role of toxic and bioactive secondary metabolites in colonization and bloom formation by filamentous cyanobacteria <i>Planktothrix</i> . <i>Harmful Algae</i> , 2016 , 54, 69-86	5.3	70
60	Transposons inactivate biosynthesis of the nonribosomal peptide microcystin in naturally occurring <i>Planktothrix</i> spp. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 117-23	4.8	68
59	Genetic identification of microcystin ecotypes in toxic cyanobacteria of the genus <i>Planktothrix</i> . <i>Microbiology (United Kingdom)</i> , 2005 , 151, 1525-1533	2.9	68
58	Diversity of microcystin genotypes among populations of the filamentous cyanobacteria <i>Planktothrix rubescens</i> and <i>Planktothrix agardhii</i> . <i>Molecular Ecology</i> , 2006 , 15, 3849-61	5.7	66
57	Occurrence of microcystin-producing cyanobacteria in Ugandan freshwater habitats. <i>Environmental Toxicology</i> , 2010 , 25, 367-80	4.2	63
56	Toxic cyanobacterial blooms in reservoirs under a semiarid mediterranean climate: the magnification of a problem. <i>Environmental Toxicology</i> , 2007 , 22, 399-404	4.2	62
55	Putative antiparasite defensive system involving ribosomal and nonribosomal oligopeptides in cyanobacteria of the genus <i>Planktothrix</i> . <i>Applied and Environmental Microbiology</i> , 2013 , 79, 2642-7	4.8	60

54	Spatial isolation favours the divergence in microcystin net production by <i>Microcystis</i> in Ugandan freshwater lakes. <i>Water Research</i> , 2010 , 44, 2803-14	12.5	51
53	Microcystin production by cyanobacteria in the Mwanza Gulf (Lake Victoria, Tanzania). <i>Hydrobiologia</i> , 2005 , 543, 299-304	2.4	46
52	Quantitative PCR enumeration of total/toxic <i>Planktothrix rubescens</i> and total cyanobacteria in preserved DNA isolated from lake sediments. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 8744-53 ^{4.8}	4.8	43
51	Integrating phylogeny, geographic niche partitioning and secondary metabolite synthesis in bloom-forming <i>Planktothrix</i> . <i>ISME Journal</i> , 2015 , 9, 909-21	11.9	41
50	Genetic variation of adenylation domains of the anabaenopeptin synthesis operon and evolution of substrate promiscuity. <i>Journal of Bacteriology</i> , 2011 , 193, 3822-31	3.5	41
49	Isolation and structure determination of two microcystins and sequence comparison of the McyABC adenylation domains in <i>Planktothrix</i> species. <i>Journal of Natural Products</i> , 2008 , 71, 1881-6	4.9	41
48	Toxic cyanobacteria and cyanotoxins in European waters [Recent progress achieved through the CYANOCOST Action and challenges for further research. <i>Advances in Oceanography and Limnology</i> , 2017 , 8,	1.3	39
47	THE TOXIC CYANOBACTERIUM NOSTOC SP. STRAIN 152 PRODUCES HIGHEST AMOUNTS OF MICROCYSTIN AND NOSTOPHYCIN UNDER STRESS CONDITIONS. <i>Journal of Phycology</i> , 2011 , 47, 200-207	3.7	39
46	Spatial divergence in the proportions of genes encoding toxic peptide synthesis among populations of the cyanobacterium <i>Planktothrix</i> in European lakes. <i>FEMS Microbiology Letters</i> , 2011 , 317, 127-37	2.9	39
45	Application of real-time PCR to estimate toxin production by the cyanobacterium <i>Planktothrix</i> sp. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 3495-502	4.8	38
44	Distribution and abundance of nontoxic mutants of cyanobacteria in lakes of the Alps. <i>Microbial Ecology</i> , 2009 , 58, 323-33	4.4	37
43	The Genetic Basis of Toxin Production in Cyanobacteria. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , 2009 , 2, 31-50		37
42	Variation in peptide net production and growth among strains of the toxic cyanobacterium <i>Planktothrix</i> spp.. <i>European Journal of Phycology</i> , 2009 , 44, 49-62	2.2	32
41	Benthic Diatom Communities in an Alpine River Impacted by Waste Water Treatment Effluents as Revealed Using DNA Metabarcoding. <i>Frontiers in Microbiology</i> , 2019 , 10, 653	5.7	27
40	Zooplankton (Cladocera) species turnover and long-term decline of <i>Daphnia</i> in two high mountain lakes in the Austrian Alps. <i>Hydrobiologia</i> , 2014 , 722, 75-91	2.4	27
39	Microcystin Content in Phytoplankton and in Small Fish from Eutrophic Nyanza Gulf, Lake Victoria, Kenya. <i>Toxins</i> , 2018 , 10,	4.9	26
38	The toxicity and enzyme activity of a chlorine and sulfate containing aeruginosin isolated from a non-microcystin-producing strain. <i>Harmful Algae</i> , 2014 , 39, 154-160	5.3	26
37	Competitive ability of <i>Daphnia</i> under dominance of non-toxic filamentous cyanobacteria. <i>Hydrobiologia</i> , 2001 , 442, 279-289	2.4	24

36	Top-down effects of underyearling fish on a phytoplankton community. <i>Freshwater Biology</i> , 1996 , 36, 599-609	3.1	23
35	Impacts of Climate Warming on Alpine Lake Biota Over the Past Decade. <i>Arctic, Antarctic, and Alpine Research</i> , 2016 , 48, 361-376	1.8	22
34	Stability of toxin gene proportion in red-pigmented populations of the cyanobacterium <i>Planktothrix</i> during 29 years of re-oligotrophication of Lake Zürich. <i>BMC Biology</i> , 2012 , 10, 100	7.3	21
33	Phytoplankton composition and microcystin concentrations in open and closed bays of Lake Victoria, Tanzania. <i>Aquatic Ecosystem Health and Management</i> , 2015 , 18, 212-220	1.4	18
32	Evaluation of different DNA sampling techniques for the application of the real-time PCR method for the quantification of cyanobacteria in water. <i>Letters in Applied Microbiology</i> , 2006 , 42, 412-7	2.9	18
31	Phytoplankton structure and microcystine concentration in the highly eutrophic Nero Lake. <i>Water Resources</i> , 2011 , 38, 229-236	0.9	14
30	Interlaboratory comparison of Taq Nuclease Assays for the quantification of the toxic cyanobacteria <i>Microcystis</i> sp. <i>Journal of Microbiological Methods</i> , 2007 , 69, 122-8	2.8	14
29	Single colony genetic analysis of epilithic stream algae of the genus spp. <i>Hydrobiologia</i> , 2018 , 811, 61-75	2.4	12
28	Elucidation of insertion elements carried on plasmids and in vitro construction of shuttle vectors from the toxic cyanobacterium <i>Planktothrix</i> . <i>Applied and Environmental Microbiology</i> , 2014 , 80, 4887-97	4.8	11
27	Emergence of nontoxic mutants as revealed by single filament analysis in bloom-forming cyanobacteria of the genus <i>Planktothrix</i> . <i>BMC Microbiology</i> , 2016 , 16, 23	4.5	10
26	Taxonomic Identification of Cyanobacteria by a Polyphasic Approach 2017 , 79-134		10
25	Evolution of Anabaenopeptin Peptide Structural Variability in the Cyanobacterium. <i>Frontiers in Microbiology</i> , 2017 , 8, 219	5.7	10
24	Isolation of Microcystins from the Cyanobacterium <i>Planktothrix rubescens</i> Strain No80. <i>Natural Products and Bioprospecting</i> , 2014 , 4, 37-45	4.9	8
23	A rigorous assessment and comparison of enumeration methods for environmental viruses. <i>Scientific Reports</i> , 2020 , 10, 18625	4.9	8
22	Temperature Response of Planktonic Microbiota in Remote Alpine Lakes. <i>Frontiers in Microbiology</i> , 2019 , 10, 1714	5.7	7
21	Toward Disentangling the Multiple Nutritional Constraints Imposed by : The Significance of Harmful Secondary Metabolites and Sterol Limitation. <i>Frontiers in Microbiology</i> , 2020 , 11, 586120	5.7	6
20	Chemically labeled toxins or bioactive peptides show a heterogeneous intracellular distribution and low spatial overlap with autofluorescence in bloom-forming cyanobacteria. <i>Scientific Reports</i> , 2020 , 10, 2781	4.9	5
19	Genetic variability of microcystin biosynthesis genes in <i>Planktothrix</i> as elucidated from samples preserved by heat desiccation during three decades. <i>PLoS ONE</i> , 2013 , 8, e80177	3.7	5

18	Understanding the occurrence of cyanobacteria and cyanotoxins 2021 , 213-294		4
17	Interannual variability of water quality conditions in the Nyanza Gulf of Lake Victoria, Kenya. <i>Journal of Great Lakes Research</i> , 2021 ,	3	3
16	Resilience of planktonic bacterial community structure in response to short-term weather deterioration during the growing season in an alpine lake. <i>Hydrobiologia</i> , 2020 , 847, 535-548	2.4	2
15	Quantifying Ecosystem Services of High Mountain Lakes across Different Socio-Ecological Contexts. <i>Sustainability</i> , 2021 , 13, 6051	3.6	2
14	Conventional PCR 2017 , 163-203		1
13	Quantitative PCR 2017 , 205-239		1
12	Analysis of Toxigenic Cyanobacterial Communities through Denaturing Gradient Gel Electrophoresis 2017 , 263-275		1
11	Response of planktonic diatoms to eutrophication in Nyanza Gulf of Lake Victoria, Kenya. <i>Limnologica</i> , 2022 , 93, 125958	2	1
10	Laboratory analyses of cyanobacteria and water chemistry 2021 , 689-743		1
9	DNA sequence and taxonomic gap analyses to quantify the coverage of aquatic cyanobacteria and eukaryotic microalgae in reference databases: Results of a survey in the Alpine region.. <i>Science of the Total Environment</i> , 2022 , 155175	10.2	0
8	Supplementary Tables 2017 , 335-378		
7	Monitoring of Toxigenic Cyanobacteria Using Next-Generation Sequencing Techniques 2017 , 277-299		
6	Application of Molecular Tools in Monitoring Cyanobacteria and Their Potential Toxin Production 2017 , 301-333		
5	Sampling and Metadata 2017 , 19-42		
4	Isolation, Purification, and Cultivation of Toxigenic Cyanobacteria 2017 , 43-78		
3	Nucleic Acid Extraction 2017 , 135-161		
2	DNA (Diagnostic) and cDNA Microarray 2017 , 241-261		
1	Contrasting endolithic habitats for cyanobacteria in spring calcites of the European Alps.. <i>Nova Hedwigia</i> , 2021 , 112, 17-48	1.3	

