

# Christine N Edwards

## List of Publications by Citations

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65  
papers

2,118  
citations

22  
h-index

45  
g-index

68  
ext. papers

2,486  
ext. citations

5.6  
avg, IF

4.68  
L-index

#	Paper	IF	Citations
65	Extraction and high-performance liquid chromatographic method for the determination of microcystins in raw and treated waters. <i>Analyst, The</i> , <b>1994</b> , 119, 1525-30	5	552
64	Identification of anatoxin-A in benthic cyanobacteria (blue-green algae) and in associated dog poisonings at Loch Insh, Scotland. <i>Toxicon</i> , <b>1992</b> , 30, 1165-75	2.8	235
63	Isolation and identification of novel microcystin-degrading bacteria. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 6924-8	4.8	111
62	Lack of functional redundancy in the relationship between microbial diversity and ecosystem functioning. <i>Journal of Ecology</i> , <b>2016</b> , 104, 936-946	6	110
61	Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. <i>Toxins</i> , <b>2018</b> , 10,	4.9	109
60	Biodegradation of microcystins and nodularin in freshwaters. <i>Chemosphere</i> , <b>2008</b> , 73, 1315-21	8.4	109
59	Isolation and characterization of microcystins from laboratory cultures and environmental samples of <i>Microcystis aeruginosa</i> and from an associated animal toxicosis. <i>Natural Toxins</i> , <b>1995</b> , 3, 50-7		80
58	Purification of microcystins. <i>Journal of Chromatography A</i> , <b>2001</b> , 912, 191-209	4.5	65
57	Analysis of microcystins from cyanobacteria by liquid chromatography with mass spectrometry using atmospheric-pressure ionization. <i>Rapid Communications in Mass Spectrometry</i> , <b>1993</b> , 7, 714-721	2.2	53
56	Rapid detection of microcystins in cells and water. <i>Toxicon</i> , <b>2010</b> , 55, 973-8	2.8	44
55	A Collaborative Evaluation of LC-MS/MS Based Methods for BMAA Analysis: Soluble Bound BMAA Found to Be an Important Fraction. <i>Marine Drugs</i> , <b>2016</b> , 14,	6	39
54	Laboratory-scale purification of microcystins using flash chromatography and reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>1996</b> , 734, 163-73	4.5	38
53	Development and single-laboratory validation of a UHPLC-MS/MS method for quantitation of microcystins and nodularin in natural water, cyanobacteria, shellfish and algal supplement tablet powders. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2012</b> , 937, 1075-111-108	3.2	36
52	Bacterial communities' response to microcystins exposure and nutrient availability: Linking degradation capacity to community structure. <i>International Biodeterioration and Biodegradation</i> , <b>2013</b> , 84, 111-117	4.8	34
51	Photocatalytic degradation of eleven microcystin variants and nodularin by TiO <sub>2</sub> coated glass microspheres. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 300, 347-353	12.8	33
50	Stability of toxigenic <i>Microcystis</i> blooms. <i>Harmful Algae</i> , <b>2009</b> , 8, 377-384	5.3	31
49	Bioremediation of cyanotoxins. <i>Advances in Applied Microbiology</i> , <b>2009</b> , 67, 109-29	4.9	31

48	Novel bacterial strains for the removal of microcystins from drinking water. <i>Water Science and Technology</i> , <b>2011</b> , 63, 1137-42	2.2	29
47	A continuous flow packed bed photocatalytic reactor for the destruction of 2-methylisoborneol and geosmin utilising pelletised TiO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2014</b> , 235, 293-298	14.7	28
46	Rapid separation of triterpenoids from Neem seed extracts <b>1999</b> , 10, 39-43		28
45	High-throughput purification of combinatorial arrays. <i>ACS Combinatorial Science</i> , <b>2003</b> , 5, 61-6		25
44	Parallel preparative high-performance liquid chromatography with on-line molecular mass characterization. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 2027-33	2.2	24
43	Microcystin producing cyanobacterium Nostoc sp. BHU001 from a pond in India. <i>Toxicon</i> , <b>2009</b> , 53, 587-90.8		19
42	Photocatalytic removal of the cyanobacterium <i>Microcystis aeruginosa</i> PCC7813 and four microcystins by TiO <sub>2</sub> coated porous glass beads with UV-LED irradiation. <i>Science of the Total Environment</i> , <b>2020</b> , 745, 141154	10.2	17
41	Cyanopeptolins with Trypsin and Chymotrypsin Inhibitory Activity from the Cyanobacterium CCNP1411. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	16
40	Development of a bioassay employing the desert locust ( <i>Schistocerca gregaria</i> ) for the detection of saxitoxin and related compounds in cyanobacteria and shellfish. <i>Toxicon</i> , <b>1998</b> , 36, 417-20	2.8	16
39	Separation and identification of phytoalexins from leaves of groundnut ( <i>Arachis hypogaea</i> ) and development of a method for their determination by reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>1991</b> , 547, 185-193	4.5	16
38	Purification of closely eluting hydrophobic microcystins (peptide cyanotoxins) by normal-phase and reversed-phase flash chromatography. <i>Journal of Chromatography A</i> , <b>1999</b> , 848, 515-522	4.5	15
37	A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. <i>Scientific Data</i> , <b>2018</b> , 5, 180226	8.2	15
36	Automated purification of microcystins. <i>Journal of Chromatography A</i> , <b>1996</b> , 734, 175-182	4.5	14
35	Almiramide D, cytotoxic peptide from the marine cyanobacterium <i>Oscillatoria nigroviridis</i> . <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 6789-95	3.4	13
34	Accumulation and detoxication responses of the gastropod <i>Lymnaea stagnalis</i> to single and combined exposures to natural (cyanobacteria) and anthropogenic (the herbicide RoundUp(®) Flash) stressors. <i>Aquatic Toxicology</i> , <b>2016</b> , 177, 116-24	5.1	11
33	Degradation of okadaic acid in seawater by UV/TiO <sub>2</sub> photocatalysis - Proof of concept. <i>Science of the Total Environment</i> , <b>2020</b> , 733, 139346	10.2	9
32	Cell Lysis and Detoxification of Cyanotoxins Using a Novel Combination of Microbubble Generation and Plasma Microreactor Technology for Ozonation. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 678	5.7	8
31	Cross talk: Two way allelopathic interactions between toxic <i>Microcystis</i> and <i>Daphnia</i> . <i>Harmful Algae</i> , <b>2020</b> , 94, 101803	5.3	7

30	Exudates Impact Physiological and Metabolic Changes in. <i>Toxins</i> , <b>2019</b> , 11,	4.9	7
29	Rapid Bioassay-Guided Isolation of Antibacterial Clerodane Type Diterpenoid from <i>Dodonaea viscosa</i> (L.) Jaeq. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 20290-307	6.3	7
28	Assessment of microcystin purity using charged aerosol detection. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 5233-8	4.5	7
27	Graphitic-C3N4 coated floating glass beads for photocatalytic destruction of synthetic and natural organic compounds in water under UV light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 405, 112935	4.7	7
26	New directions and challenges in engineering biologically-enhanced biochar for biological water treatment. <i>Science of the Total Environment</i> , <b>2021</b> , 796, 148977	10.2	7
25	New nodulopeptins from <i>Nodularia spumigena</i> KAC 66. <i>Tetrahedron</i> , <b>2012</b> , 68, 1622-1628	2.4	6
24	All in one photo-reactor pod containing TiO <sub>2</sub> coated glass beads and LEDs for continuous photocatalytic destruction of cyanotoxins in water. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 945-950	4.2	6
23	Effect of hydrogen peroxide on natural phytoplankton and bacterioplankton in a drinking water reservoir: Mesocosm-scale study. <i>Water Research</i> , <b>2021</b> , 197, 117069	12.5	6
22	Rapid uptake and slow depuration: Health risks following cyanotoxin accumulation in mussels?. <i>Environmental Pollution</i> , <b>2021</b> , 271, 116400	9.3	5
21	Microalgal Bioactive Compounds Including Protein, Peptides, and Pigments: Applications, Opportunities, and Challenges During Biorefinery Processes <b>2018</b> , 239-255		5
20	Potentially Poisonous Plastic Particles: Microplastics as a Vector for Cyanobacterial Toxins Microcystin-LR and Microcystin-LF. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15940-15949	10.3	4
19	Degradation of microcystin-LR and cylindrospermopsin by continuous flow UV-A photocatalysis over immobilised TiO. <i>Journal of Environmental Management</i> , <b>2020</b> , 276, 111368	7.9	4
18	Effects of temperature and salinity on the production of cell biomass, chlorophyll-a and intra- and extracellular nodularins (NOD) and nodulopeptin 901 produced by <i>Nodularia spumigena</i> KAC 66. <i>Journal of Applied Phycology</i> , <b>2017</b> , 29, 1801-1810	3.2	3
17	Current Trends and Challenges for Rapid SMART Diagnostics at Point-of-Site Testing for Marine Toxins. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
16	Rapid analytical methods for the microalgal and cyanobacterial biorefinery: Application on strains of industrial importance. <i>MicrobiologyOpen</i> , <b>2021</b> , 10, e1156	3.4	3
15	Detection of Cyanobacterial (Blue-green Algal) Peptide Toxins by Protein Phosphatase Inhibition <b>1994</b> , 175-180		2
14	Recoverable resources from pot ale & spent wash from Scotch Whisky production.. <i>Resources, Conservation and Recycling</i> , <b>2022</b> , 179, 106114	11.9	2
13	Stratification strength and light climate explain variation in chlorophyll a at the continental scale in a European multilake survey in a heatwave summer. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 4314	4.8	2

12	High Value Phycotoxins From the Dinoflagellate Prorocentrum. <i>Frontiers in Marine Science</i> , <b>2021</b> , 8,	4.5	2
11	Oxidative stress in the cyanobacterium <i>Microcystis aeruginosa</i> PCC 7813: Comparison of different analytical cell stress detection assays. <i>Chemosphere</i> , <b>2021</b> , 269, 128766	8.4	2
10	Rapid Analysis of Geosmin and 2-Methylisoborneol from Aqueous Samples Using Solid-Phase Extraction and GC-MS <b>2017</b> , 475-480		1
9	The Analysis of Microcystins in Raw and Treated Water <b>1994</b> , 59-63		1
8	Phosphate and nitrate supplementations to evaluate the effect on cell biomass, intra and extracellular nodularin and nodulopeptin 901 produced by the cyanobacterium <i>Nodularia spumigena</i> KAC 66. <i>Journal of Applied Phycology</i> , <b>2020</b> , 32, 937-950	3.2	1
7	Removal of Cyanobacteria and Cyanotoxins by Conventional Physical-chemical Treatment <b>2020</b> , 69-97		1
6	Transformation Products (TPs) of Cyanobacterial Metabolites During Treatment <b>2020</b> , 231-305		1
5	Degradation of Multiple Peptides by Microcystin-Degrader (2C20). <i>Toxins</i> , <b>2021</b> , 13,	4.9	1
4	Anatoxin-a degradation by using titanium dioxide. <i>Science of the Total Environment</i> , <b>2021</b> , 756, 143590	10.2	1
3	Adsorption of cyanotoxins on polypropylene and polyethylene terephthalate: Microplastics as vector of eight microcystin analogues.. <i>Environmental Pollution</i> , <b>2022</b> , 303, 119135	9.3	1
2	Cell free <i>Microcystis aeruginosa</i> spent medium affects <i>Daphnia magna</i> survival and stress response. <i>Toxicon</i> , <b>2021</b> , 195, 37-47	2.8	0
1	Comparison of UV-A photolytic and UV/TiO photocatalytic effects on <i>Microcystis aeruginosa</i> PCC7813 and four microcystin analogues: A pilot scale study. <i>Journal of Environmental Management</i> , <b>2021</b> , 298, 113519	7.9	0