Christine N Edwards

List of Publications by Year
in descending order

64 papers	2,870 citations	236612 25 h-index	174990 52 g-index
68 all docs	68 docs citations	68 times ranked	2724 citing authors

#	Article	IF	Citations
1	Extraction and high-performance liquid chromatographic method for the determination of microcystins in raw and treated waters. Analyst, The, 1994, 119, 1525.	1.7	620
2	Identification of anatoxin-A in benthic cyanobacteria (blue-green algae) and in associated dog poisonings at Loch Insh, Scotland. Toxicon, 1992, 30, 1165-1175.	0.8	279
3	Lack of functional redundancy in the relationship between microbial diversity and ecosystem functioning. Journal of Ecology, 2016, 104, 936-946.	1.9	185
4	Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. Toxins, 2018, 10, 156.	1.5	159
5	Isolation and Identification of Novel Microcystin-Degrading Bacteria. Applied and Environmental Microbiology, 2009, 75, 6924-6928.	1.4	153
6	Biodegradation of microcystins and nodularin in freshwaters. Chemosphere, 2008, 73, 1315-1321.	4.2	135
7	Isolation and characterization of microcystins from laboratory cultures and environmental samples ofMicrocystis aeruginosa and from an associated animal toxicosis. Natural Toxins, 1995, 3, 50-57.	1.0	97
8	Purification of microcystins. Journal of Chromatography A, 2001, 912, 191-209.	1.8	76
9	Analysis of microcystins from cyanobacteria by liquid chromatography with mass spectrometry using atmospheric-pressure ionization. Rapid Communications in Mass Spectrometry, 1993, 7, 714-721.	0.7	62
10	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. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1074-1075, 111-123.	1.2	55
11	Rapid detection of microcystins in cells and water. Toxicon, 2010, 55, 973-978.	0.8	47
12	Bacterial communities' response to microcystins exposure and nutrient availability: Linking degradation capacity to community structure. International Biodeterioration and Biodegradation, 2013, 84, 111-117.	1.9	47
13	A Collaborative Evaluation of LC-MS/MS Based Methods for BMAA Analysis: Soluble Bound BMAA Found to Be an Important Fraction. Marine Drugs, 2016, 14, 45.	2.2	47
14	Laboratory-scale purification of microcystins using flash chromatography and reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 1996, 734, 163-173.	1.8	43
15	Photocatalytic degradation of eleven microcystin variants and nodularin by TiO2 coated glass microspheres. Journal of Hazardous Materials, 2015, 300, 347-353.	6.5	42
16	Potentially Poisonous Plastic Particles: Microplastics as a Vector for Cyanobacterial Toxins Microcystin-LR and Microcystin-LF. Environmental Science & Technology, 2021, 55, 15940-15949.	4.6	41
17	Rapid separation of triterpenoids from Neem seed extracts. , 1999, 10, 39-43.		37
18	Effect of hydrogen peroxide on natural phytoplankton and bacterioplankton in a drinking water reservoir: Mesocosm-scale study. Water Research, 2021, 197, 117069.	5.3	36

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19	Chapter 4 Bioremediation of Cyanotoxins. Advances in Applied Microbiology, 2009, 67, 109-129.	1.3	35
20	Novel bacterial strains for the removal of microcystins from drinking water. Water Science and Technology, 2011, 63, 1137-1142.	1.2	35
21	A continuous flow packed bed photocatalytic reactor for the destruction of 2-methylisoborneol and geosmin utilising pelletised TiO2. Chemical Engineering Journal, 2014, 235, 293-298.	6.6	33
22	Stability of toxigenic Microcystis blooms. Harmful Algae, 2009, 8, 377-384.	2.2	32
23	New directions and challenges in engineering biologically-enhanced biochar for biological water treatment. Science of the Total Environment, 2021, 796, 148977.	3.9	32
24	A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. Scientific Data, 2018, 5, 180226.	2.4	30
25	Cyanopeptolins with Trypsin and Chymotrypsin Inhibitory Activity from the Cyanobacterium Nostoc edaphicum CCNP1411. Marine Drugs, 2018, 16, 220.	2.2	28
26	Adsorption of cyanotoxins on polypropylene and polyethylene terephthalate: Microplastics as vector of eight microcystin analogues. Environmental Pollution, 2022, 303, 119135.	3.7	27
27	Parallel preparative high-performance liquid chromatography with on-line molecular mass characterization. Rapid Communications in Mass Spectrometry, 2003, 17, 2027-2033.	0.7	26
28	High-Throughput Purification of Combinatorial Arrays. ACS Combinatorial Science, 2003, 5, 61-66.	3.3	25
29	Photocatalytic removal of the cyanobacterium Microcystis aeruginosa PCC7813 and four microcystins by TiO2 coated porous glass beads with UV-LED irradiation. Science of the Total Environment, 2020, 745, 141154.	3.9	25
30	Current Trends and Challenges for Rapid SMART Diagnostics at Point-of-Site Testing for Marine Toxins. Sensors, 2021, 21, 2499.	2.1	25
31	Development of a bioassay employing the desert locust (Schistocerca gregaria) for the detection of saxitoxin and related compounds in cyanobacteria and shellfish. Toxicon, 1998, 36, 417-420.	0.8	23
32	Almiramide D, cytotoxic peptide from the marine cyanobacterium Oscillatoria nigroviridis. Bioorganic and Medicinal Chemistry, 2014, 22, 6789-6795.	1.4	22
33	Microcystin producing cyanobacterium Nostoc sp. BHU001 from a pond in India. Toxicon, 2009, 53, 587-590.	0.8	21
34	Graphitic-C3N4 coated floating glass beads for photocatalytic destruction of synthetic and natural organic compounds in water under UV light. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 405, 112935.	2.0	21
35	Purification of closely eluting hydrophobic microcystins (peptide cyanotoxins) by normal-phase and reversed-phase flash chromatography. Journal of Chromatography A, 1999, 848, 515-522.	1.8	20
36	Degradation of okadaic acid in seawater by UV/TiO2 photocatalysis â€“ Proof of concept. Science of the Total Environment, 2020, 733, 139346.	3.9	19

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37	Stratification strength and light climate explain variation in chlorophyll <scp>a</scp> at the continental scale in a European multilake survey in a heatwave summer. Limnology and Oceanography, 2021, 66, 4314-4333.	1.6	19
38	Separation and identification of phytoalexins from leaves of groundnut (Arachis hypogaea) and development of a method for their determination by reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 1991, 547, 185-193.	1.8	18
39	Automated purification of microcystins. Journal of Chromatography A, 1996, 734, 175-182.	1.8	16
40	Rapid uptake and slow depuration: Health risks following cyanotoxin accumulation in mussels?. Environmental Pollution, 2021, 271, 116400.	3.7	13
41	Cell Lysis and Detoxification of Cyanotoxins Using a Novel Combination of Microbubble Generation and Plasma Microreactor Technology for Ozonation. Frontiers in Microbiology, 2018, 9, 678.	1.5	12
42	Accumulation and detoxication responses of the gastropod Lymnaea stagnalis to single and combined exposures to natural (cyanobacteria) and anthropogenic (the herbicide RoundUpÂ® Flash) stressors. Aquatic Toxicology, 2016, 177, 116-124.	1.9	11
43	New nodulopeptins from Nodularia spumigena KAC 66. Tetrahedron, 2012, 68, 1622-1628.	1.0	10
44	Rapid Bioassay-Guided Isolation of Antibacterial Clerodane Type Diterpenoid from Dodonaea viscosa (L.) Jaeq.. International Journal of Molecular Sciences, 2015, 16, 20290-20307.	1.8	10
45	Degradation of microcystin-LR and cylindrospermopsin by continuous flow UV-A photocatalysis over immobilised TiO2. Journal of Environmental Management, 2020, 276, 111368.	3.8	10
46	Recoverable resources from pot ale & spent wash from Scotch Whisky production. Resources, Conservation and Recycling, 2022, 179, 106114.	5.3	10
47	Assessment of microcystin purity using charged aerosol detection. Journal of Chromatography A, 2010, 1217, 5233-5238.	1.8	9
48	Daphnia magna Exudates Impact Physiological and Metabolic Changes in Microcystis aeruginosa. Toxins, 2019, 11, 421.	1.5	9
49	â€˜All in oneâ€™ photo-reactor pod containing TiO₂ coated glass beads and LEDs for continuous photocatalytic destruction of cyanotoxins in water. Environmental Science: Water Research and Technology, 2020, 6, 945-950.	1.2	9
50	Cross talk: Two way allelopathic interactions between toxic Microcystis and Daphnia. Harmful Algae, 2020, 94, 101803.	2.2	9
51	Comparison of UV-A photolytic and UV/TiO2 photocatalytic effects on Microcystis aeruginosa PCC7813 and four microcystin analogues: A pilot scale study. Journal of Environmental Management, 2021, 298, 113519.	3.8	9
52	Rapid analytical methods for the microalgal and cyanobacterial biorefinery: Application on strains of industrial importance. MicrobiologyOpen, 2021, 10, e1156.	1.2	8
53	Degradation of Multiple Peptides by Microcystin-Degrader Paucibacter toxinivorans (2C20). Toxins, 2021, 13, 265.	1.5	8
54	High Value Phycotoxins From the Dinoflagellate Prorocentrum. Frontiers in Marine Science, 2021, 8, .	1.2	6

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55	Oxidative stress in the cyanobacterium Microcystis aeruginosa PCC 7813: Comparison of different analytical cell stress detection assays. Chemosphere, 2021, 269, 128766.	4.2	5
56	Anatoxin-a degradation by using titanium dioxide. Science of the Total Environment, 2021, 756, 143590.	3.9	5
57	Effects of temperature and salinity on the production of cell biomass, chlorophyll-a and intra- and extracellular nodularins (NOD) and nodulopeptin 901 produced by Nodularia spumigena KAC 66. Journal of Applied Phycology, 2017, 29, 1801-1810.	1.5	3
58	Cell free Microcystis aeruginosa spent medium affects Daphnia magna survival and stress response. Toxicon, 2021, 195, 37-47.	0.8	3
59	Detection of Cyanobacterial (Blue-green Algal) Peptide Toxins by Protein Phosphatase Inhibition. , 1994, , 175-180.		3
60	The Analysis of Microcystins in Raw and Treated Water. , 1994, , 59-63.		2
61	Nostocyclopeptides as New Inhibitors of 20S Proteasome. Biomolecules, 2021, 11, 1483.	1.8	2
62	Phosphate and nitrate supplementations to evaluate the effect on cell biomass, intra and extracellular nodularin and nodulopeptin 901 produced by the cyanobacterium Nodularia spumigena KAC 66. Journal of Applied Phycology, 2020, 32, 937-950.	1.5	1
63	Safe water for all: A nature-based approach for cyanotoxin elimination from potable water. Access Microbiology, 2020, 2, .	0.2	0
64	Biological Activity and Stability of Aeruginosamides from Cyanobacteria. Marine Drugs, 2022, 20, 93.	2.2	0