Linda A Lawton

List of Publications by Citations

126 papers	4,394 citations	36 h-index	63 g-index
132 ext. papers	4,955 ext. citations	6.9 avg, IF	5.5 L-index

#	Paper	IF	Citations
126	Extraction and high-performance liquid chromatographic method for the determination of microcystins in raw and treated waters. *Analyst, The*, **1994**, 119, 1525-30	5	552
125	Detection of the cyanobacterial hepatotoxins microcystins. *Toxicology and Applied Pharmacology*, **2005**, 203, 219-30	4.6	184
124	A comparison of the effectiveness of TiO2 photocatalysis and UVA photolysis for the destruction of three pathogenic micro-organisms. *Journal of Photochemistry and Photobiology A: Chemistry*, **2005**, 175, 51-56	4.7	180
123	Hydrogen peroxide enhanced photocatalytic oxidation of microcystin-LR using titanium dioxide. *Applied Catalysis B: Environmental*, **2000**, 25, 59-67	21.8	168
122	Physico-chemical treatment methods for the removal of microcystins (cyanobacterial hepatotoxins) from potable waters. *Chemical Society Reviews*, **1999**, 28, 217-224	58.5	166
121	Investigations into the inhibitory effects of microcystins on plant growth, and the toxicity of plant tissues following exposure. *Toxicon*, **2001**, 39, 1411-20	2.8	164
120	Mechanistic studies of the photocatalytic oxidation of microcystin-LR: an investigation of byproducts of the decomposition process. *Environmental Science & Technology*, **2003**, 37, 3214-9	10.3	121
119	Detoxification of Microcystins (Cyanobacterial Hepatotoxins) Using TiO2 Photocatalytic Oxidation. *Environmental Science & Technology*, **1999**, 33, 771-775	10.3	120
118	Isolation and identification of novel microcystin-degrading bacteria. *Applied and Environmental Microbiology*, **2009**, 75, 6924-8	4.8	111
117	Lack of functional redundancy in the relationship between microbial diversity and ecosystem functioning. *Journal of Ecology*, **2016**, 104, 936-946	6	110
116	Biodegradation of microcystins and nodularin in freshwaters. *Chemosphere*, **2008**, 73, 1315-21	8.4	109
115	Processes influencing surface interaction and photocatalytic destruction of microcystins on titanium dioxide photocatalysts. *Journal of Catalysis*, **2003**, 213, 109-113	7.3	95
114	Cyanobacterial (Blue-Green Algal) Toxins and their Significance in UK and European Waters. *Water and Environment Journal*, **1991**, 5, 460-465	1.7	93
113	Isolation and characterization of microcystins from laboratory cultures and environmental samples of Microcystis aeruginosa and from an associated animal toxicosis. *Natural Toxins*, **1995**, 3, 50-7		80
112	Comparative assessment of the specificity of the brine shrimp and microtox assays to hepatotoxic (microcystin-LR-containing) cyanobacteria. *Environmental Toxicology and Water Quality*, **1994**, 9, 71-77		68
111	Simultaneous cellulose conversion and hydrogen production assisted by cellulose decomposition under UV-light photocatalysis. *Chemical Communications*, **2016**, 52, 1673-6	5.8	66
110	Depuration rates and the sensory threshold concentration of geosmin responsible for earthy-musty taint in rainbow trout, Onchorhynchus mykiss. *Aquaculture*, **2005**, 245, 89-99	4.4	66

109	Purification of microcystins. *Journal of Chromatography A*, **2001**, 912, 191-209	4.5	65
108	Comparative assessment of visible light and UV active photocatalysts by hydroxyl radical quantification. *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 334, 13-19	4.7	60
107	Optimization of intracellular microcystin extraction for their subsequent analysis by high-performance liquid chromatography. *Journal of Chromatography A*, **2005**, 1074, 23-30	4.5	59
106	Destruction of cyanobacterial toxins by semiconductorphotocatalysis. *Chemical Communications*, **1997**, 393-394	5.8	56
105	Can ingested cyanobacteria be harmful to the signal crayfish (Pacifastacus leniusculus)?. *Freshwater Biology*, **1998**, 39, 233-242	3.1	53
104	The destruction of 2-methylisoborneol and geosmin using titanium dioxide photocatalysis. *Applied Catalysis B: Environmental*, **2003**, 44, 9-13	21.8	53
103	Analysis of microcystins from cyanobacteria by liquid chromatography with mass spectrometry using atmospheric-pressure ionization. *Rapid Communications in Mass Spectrometry*, **1993**, 7, 714-721	2.2	53
102	Mechanistic and toxicity studies of the photocatalytic oxidation of microcystin-LR. *Journal of Photochemistry and Photobiology A: Chemistry*, **2002**, 148, 349-354	4.7	48
101	Rapid isolation of a single-chain antibody against the cyanobacterial toxin microcystin-LR by phage display and its use in the immunoaffinity concentration of microcystins from water. *Applied and Environmental Microbiology*, **2002**, 68, 5288-95	4.8	48
100	Passive sampling: partition coefficients for a silicone rubber reference phase. *Journal of Environmental Monitoring*, **2007**, 9, 1116-21		47
99	An investigation into the occurrence of geosmin responsible for earthy-musty taints in UK farmed rainbow trout, Onchorhynchus mykiss. *Aquaculture*, **2006**, 259, 153-163	4.4	47
98	The photocatalytic decomposition of microcystin-LR using selected titanium dioxide materials. *Chemosphere*, **2009**, 76, 549-53	8.4	46
97	Rapid detection of microcystins in cells and water. *Toxicon*, **2010**, 55, 973-8	2.8	44
96	Rapid selection of anti-hapten antibodies isolated from synthetic and semi-synthetic antibody phage display libraries expressed in Escherichia coli. *FEMS Microbiology Letters*, **2002**, 210, 257-61	2.9	42
95	Cellulose II as bioethanol feedstock and its advantages over native cellulose. *Renewable and Sustainable Energy Reviews*, **2017**, 77, 182-192	16.2	38
94	Laboratory-scale purification of microcystins using flash chromatography and reversed-phase high-performance liquid chromatography. *Journal of Chromatography A*, **1996**, 734, 163-73	4.5	38
93	Effect of controlled periodic-based illumination on the photonic efficiency of photocatalytic degradation of methyl orange. *Journal of Catalysis*, **2012**, 290, 138-142	7.3	37
92	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*, **2013**, 1074-1075, 111-123	3.2	36

91	Occurrence of toxigenic cyanobacterial blooms in freshwaters of Sri Lanka. *Systematic and Applied Microbiology*, **2006**, 29, 156-64	4.2	36
90	Bacterial communities' response to microcystins exposure and nutrient availability: Linking degradation capacity to community structure. *International Biodeterioration and Biodegradation*, **2013**, 84, 111-117	4.8	34
89	Photocatalytic degradation of eleven microcystin variants and nodularin by TiO2 coated glass microspheres. *Journal of Hazardous Materials*, **2015**, 300, 347-353	12.8	33
88	The degradation of microcystin-LR using doped visible light absorbing photocatalysts. *Chemosphere* , **2010**, 78, 1182-5	8.4	33
87	Detection and quantification of microcystins (cyanobacterial hepatotoxins) with recombinant antibody fragments isolated from a naïve human phage display library. *FEMS Microbiology Letters*, **2000**, 193, 83-8	2.9	32
86	The functional grazing response of a phytoplanktivorous fish Oreochromis niloticus to mixtures of toxic and non-toxic strains of the cyanobacterium Microcystis aeruginosa. *Journal of Fish Biology*, **1994**, 45, 123-129	1.9	32
85	Stability of toxigenic Microcystis blooms. *Harmful Algae*, **2009**, 8, 377-384	5.3	31
84	Bioremediation of cyanotoxins. *Advances in Applied Microbiology*, **2009**, 67, 109-29	4.9	31
83	A Bioactive Modified Peptide, Aeruginosamide, Isolated from the Cyanobacterium. *Journal of Organic Chemistry*, **1999**, 64, 5329-5332	4.2	30
82	Enhancing photocatalytic degradation of the cyanotoxin microcystin-LR with the addition of sulfate-radical generating oxidants. *Journal of Hazardous Materials*, **2018**, 360, 461-470	12.8	29
81	Novel bacterial strains for the removal of microcystins from drinking water. *Water Science and Technology*, **2011**, 63, 1137-42	2.2	29
80	The photocatalytic destruction of the cyanotoxin, nodularin using TiO2. *Applied Catalysis B: Environmental*, **2005**, 60, 245-252	21.8	29
79	The Involvement of Phycocyanin Pigment in the Photodecomposition of the Cyanobacterial Toxin, Microcystin-LR. *Journal of Porphyrins and Phthalocyanines*, **1999**, 03, 544-551	1.8	29
78	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	14.7	28
77	The occurrence of toxic blue-green algae in Lake Ringsjö, southern Sweden, despite nutrient reduction and fish biomanipulation. *Hydrobiologia*, **1999**, 404, 123-129	2.4	27
76	A study of the kinetic solvent isotope effect on the destruction of microcystin-LR and geosmin using TiO2 photocatalysis. *Applied Catalysis B: Environmental*, **2011**, 108-109, 1-5	21.8	24
75	Removal of cyanobacterial toxins (microcystins) and cyanobacterial cells from drinking water using domestic water filters. *Water Research*, **1998**, 32, 633-638	12.5	24
74	Biodesalination: a case study for applications of photosynthetic bacteria in water treatment. *Plant Physiology*, **2014**, 164, 1661-76	6.6	23

73	Use of a rapid bioluminescence assay for detecting cyanobacterial microcystin toxicity. *Letters in Applied Microbiology*, **1990**, 11, 205-7	2.9	23
72	Processes influencing the destruction of microcystin-LR by TiO2 photocatalysis. *Journal of Photochemistry and Photobiology A: Chemistry*, **1998**, 116, 215-219	4.7	22
71	Evaluation of Assay Methods for the Determination of Cyanobacterial Hepatotoxicity **1994**, 111-116		22
70	Controlled periodic illumination in semiconductor photocatalysis. *Journal of Photochemistry and Photobiology A: Chemistry*, **2016**, 319-320, 96-106	4.7	21
69	The effect of pH on the photonic efficiency of the destruction of methyl orange under controlled periodic illumination with UV-LED sources. *Chemical Engineering Journal*, **2014**, 246, 337-342	14.7	20
68	Microcystin producing cyanobacterium Nostoc sp. BHU001 from a pond in India. *Toxicon*, **2009**, 53, 587-90	2.8	19
67	Isolation and detection of microcystins and nodularins, cyanobacterial peptide hepatotoxins. *Methods in Molecular Biology*, **2000**, 145, 65-87	1.4	17
66	Photocatalytic removal of the cyanobacterium Microcystis aeruginosa PCC7813 and four microcystins by TiO coated porous glass beads with UV-LED irradiation. *Science of the Total Environment*, **2020**, 745, 141154	10.2	17
65	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, 417-20	2.8	16
64	The involvement of phycocyanin pigment in the photodecomposition of the cyanobacterial toxin, microcystin-LR. *Journal of Porphyrins and Phthalocyanines*, **1999**, 3, 544-551	1.8	16
63	Mathematical modelling of quantum yield enhancements of methyl orange photooxidation in aqueous TiO2 suspensions under controlled periodic UV LED illumination. *Applied Catalysis B: Environmental*, **2014**, 156-157, 398-403	21.8	15
62	Purification of closely eluting hydrophobic microcystins (peptide cyanotoxins) by normal-phase and reversed-phase flash chromatography. *Journal of Chromatography A*, **1999**, 848, 515-522	4.5	15
61	Biodesalination: an emerging technology for targeted removal of Na+ and Cl from seawater by cyanobacteria. *Desalination and Water Treatment*, **2015**, 55, 2647-2668		14
60	Conventional laboratory methods for cyanotoxins. *Advances in Experimental Medicine and Biology*, **2008**, 619, 513-37	3.6	14
59	In vivo influence of cyanobacterial toxins on enzyme activity and gene expression of protein phosphatases in Alfalfa (Medicago sativa). *Toxicon*, **2008**, 52, 84-90	2.8	14
58	Automated purification of microcystins. *Journal of Chromatography A*, **1996**, 734, 175-182	4.5	14
57	Sudden flamingo deaths in Kenyan Rift Valley lakes. *Wildlife Biology*, **2014**, 20, 185-189	1.7	13
56	A new generation of biocides for control of crustacea in fish farms. *Journal of Photochemistry and Photobiology B: Biology*, **2009**, 95, 58-63	6.7	13

55	UV LED Sources for Heterogeneous Photocatalysis. *Handbook of Environmental Chemistry*, **2014**, 159-179	0.8	12
54	Accumulation and detoxication responses of the gastropod Lymnaea stagnalis to single and combined exposures to natural (cyanobacteria) and anthropogenic (the herbicide RoundUp( ) Flash) stressors. *Aquatic Toxicology*, **2016**, 177, 116-24	5.1	11
53	The effect of water treatment unit processes on cyanobacterial trichome integrity. *Science of the Total Environment*, **2019**, 659, 1403-1414	10.2	10
52	Removal of microcystins from a waste stabilisation lagoon: Evaluation of a packed-bed continuous flow TiO reactor. *Chemosphere*, **2020**, 245, 125575	8.4	10
51	Archaeological medicinal earths as antibacterial agents: the case of the Basel Lemnian sphragides. *Geological Society Special Publication*, **2017**, 452, 141-153	1.7	9
50	Using cellulose polymorphs for enhanced hydrogen production from photocatalytic reforming. *Sustainable Energy and Fuels*, **2019**, 3, 1971-1975	5.8	9
49	A photocatalytic impeller reactor for gas phase heterogeneous photocatalysis. *Journal of Environmental Chemical Engineering*, **2017**, 5, 3942-3948	6.8	9
48	Degradation of okadaic acid in seawater by UV/TiO photocatalysis - Proof of concept. *Science of the Total Environment*, **2020**, 733, 139346	10.2	9
47	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	5.7	8
46	Elevated microcystin and nodularin levels in cyanobacteria growing in spent medium of Planktothrix agardhii. *Archiv F Hydrobiologie*, **2003**, 158, 541-550		8
45	Development of an extraction procedure for the quantitative analysis of microcystins in cyanobacterial cells. *Phycologia*, **1996**, 35, 57-61	2.7	8
44	Cross talk: Two way allelopathic interactions between toxic Microcystis and Daphnia. *Harmful Algae* , **2020**, 94, 101803	5.3	7
43	Exudates Impact Physiological and Metabolic Changes in. *Toxins*, **2019**, 11,	4.9	7
42	Rapid Bioassay-Guided Isolation of Antibacterial Clerodane Type Diterpenoid from Dodonaea viscosa (L.) Jaeq. *International Journal of Molecular Sciences*, **2015**, 16, 20290-307	6.3	7
41	Assessment of microcystin purity using charged aerosol detection. *Journal of Chromatography A*, **2010**, 1217, 5233-8	4.5	7
40	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	4.7	7
39	New directions and challenges in engineering biologically-enhanced biochar for biological water treatment. *Science of the Total Environment*, **2021**, 796, 148977	10.2	7
38	New nodulopeptins from Nodularia spumigena KAC 66. *Tetrahedron*, **2012**, 68, 1622-1628	2.4	6

37	Off-Flavor Problems and a Potential Solution within the U.K. Trout Industry. *ACS Symposium Series*, **2003**, 55-68	0.4	6
36	All in one 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	4.2	6
35	Effect of hydrogen peroxide on natural phytoplankton and bacterioplankton in a drinking water reservoir: Mesocosm-scale study. *Water Research*, **2021**, 197, 117069	12.5	6
34	Rapid uptake and slow depuration: Health risks following cyanotoxin accumulation in mussels?. *Environmental Pollution*, **2021**, 271, 116400	9.3	5
33	Mixing regime simulation and cellulose particle tracing in a stacked frame photocatalytic reactor. *Chemical Engineering Journal*, **2017**, 313, 301-308	14.7	4
32	Potentially Poisonous Plastic Particles: Microplastics as a Vector for Cyanobacterial Toxins Microcystin-LR and Microcystin-LF. *Environmental Science & Technology*, **2021**, 55, 15940-15949	10.3	4
31	Degradation of microcystin-LR and cylindrospermopsin by continuous flow UV-A photocatalysis over immobilised TiO. *Journal of Environmental Management*, **2020**, 276, 111368	7.9	4
30	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	3.2	3
29	Photocatalytic Destruction of Geosmin Using Novel Pelleted Titanium Dioxide. *Journal of Advanced Oxidation Technologies*, **2008**, 11,		3
28	Polyamide microplastics in wastewater as vectors of cationic pharmaceutical drugs. *Chemosphere*, **2021**, 132578	8.4	3
27	Current Trends and Challenges for Rapid SMART Diagnostics at Point-of-Site Testing for Marine Toxins. *Sensors*, **2021**, 21,	3.8	3
26	Rapid analytical methods for the microalgal and cyanobacterial biorefinery: Application on strains of industrial importance. *MicrobiologyOpen*, **2021**, 10, e1156	3.4	3
25	Detection of morphological changes caused by chemical stress in the cyanobacterium Planktothrix agardhii using convolutional neural networks. *Science of the Total Environment*, **2021**, 784, 146956	10.2	3
24	Grazing rates on toxic and non-toxic strains of cyanobacteria by Hypophthalmichthys molitrix and Oreochromis niloticus **1993**, 43, 901		3
23	The Application of Semiconductor Photocatalysis for the Removal of Cyanotoxins from Water and Design Concepts for Solar Photocatalytic Reactors for Large Scale Water Treatment **2013**, 395-415		2
22	Detection of Cyanobacterial (Blue-green Algal) Peptide Toxins by Protein Phosphatase Inhibition **1994**, 175-180		2
21	Recoverable resources from pot ale & spent wash from Scotch Whisky production.. *Resources, Conservation and Recycling*, **2022**, 179, 106114	11.9	2
20	High Value Phycotoxins From the Dinoflagellate Prorocentrum. *Frontiers in Marine Science*, **2021**, 8,	4.5	2

19	Oxidative stress in the cyanobacterium Microcystis aeruginosa PCC 7813: Comparison of different analytical cell stress detection assays. *Chemosphere*, **2021**, 269, 128766	8.4	2
18	Rapid Analysis of Geosmin and 2-Methylisoborneol from Aqueous Samples Using Solid-Phase Extraction and GC-MS **2017**, 475-480		1
17	Energy efficient operation of photocatalytic reactors based on UV LEDs for pollution remediation in water **2017**,		1
16	Multi-bubble sonoluminescence: laboratory curiosity, or real world application? **2008**,		1
15	The detection and quantification of cyanobacterial toxins in water using the brine shrimp (Artemia salina) assay. *West African Journal of Applied Ecology*, **2009**, 9,		1
14	The Analysis of Microcystins in Raw and Treated Water **1994**, 59-63		1
13	Adsorption of a diverse range of pharmaceuticals to polyethylene microplastics in wastewater and their desorption in environmental matrices. *Science of the Total Environment*, **2021**, 808, 152071	10.2	1
12	The occurrence of toxic blue-green algae in Lake Ringsj□, southern Sweden, despite nutrient reduction and fish biomanipulation **1999**, 123-129		1
11	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	3.2	1
10	Removal and/or Destruction of Cyanobacterial Taste and Odour Compounds by Conventional and Advanced Oxidation Processes **2020**, 207-230		1
9	Degradation of Multiple Peptides by Microcystin-Degrader (2C20). *Toxins*, **2021**, 13,	4.9	1
8	Hazardous cyanobacteria integrity response to velocity gradient and powdered activated carbon in water treatment plants. *Science of the Total Environment*, **2021**, 773, 145110	10.2	1
7	Anatoxin-a degradation by using titanium dioxide. *Science of the Total Environment*, **2021**, 756, 143590	10.2	1
6	Adsorption of cyanotoxins on polypropylene and polyethylene terephthalate: Microplastics as vector of eight microcystin analogues.. *Environmental Pollution*, **2022**, 303, 119135	9.3	1
5	Cell free Microcystis aeruginosa spent medium affects Daphnia magna survival and stress response. *Toxicon*, **2021**, 195, 37-47	2.8	0
4	Cellulose Photocatalysis for Renewable Energy Production. *Environmental Chemistry for A Sustainable World*, **2021**, 1-34	0.8	0
3	Comparison of UV-A photolytic and UV/TiO photocatalytic effects on Microcystis aeruginosa PCC7813 and four microcystin analogues: A pilot scale study. *Journal of Environmental Management* , **2021**, 298, 113519	7.9	0
2	Biodesalination□a synthetic biology approach for the use of photosynthetic bacteria in water treatment. *New Biotechnology*, **2014**, 31, S140-S141	6.4	

1	Radiolytic degradation of 2-methylisoborneol and geosmin in water: Reactive radical species and transformation pathways. *Chemical Engineering Journal Advances*, **2021**, 8, 100196	3.6