Linda A Lawton

List of Publications by Year
in descending order

126 papers	5,590 citations	87723 38 h-index	88477 70 g-index
132 all docs	132 docs citations	132 times ranked	4574 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	Detection of the cyanobacterial hepatotoxins microcystins. Toxicology and Applied Pharmacology, 2005, 203, 219-230.	1.3	215
3	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.	2.0	197
4	Lack of functional redundancy in the relationship between microbial diversity and ecosystem functioning. Journal of Ecology, 2016, 104, 936-946.	1.9	185
5	Hydrogen peroxide enhanced photocatalytic oxidation of microcystin-LR using titanium dioxide. Applied Catalysis B: Environmental, 2000, 25, 59-67.	10.8	183
6	Physico-chemical treatment methods for the removal of microcystins (cyanobacterial hepatotoxins) from potable waters. Chemical Society Reviews, 1999, 28, 217-224.	18.7	182
7	Investigations into the inhibitory effects of microcystins on plant growth, and the toxicity of plant tissues following exposure. Toxicon, 2001, 39, 1411-1420.	0.8	180
8	Isolation and Identification of Novel Microcystin-Degrading Bacteria. Applied and Environmental Microbiology, 2009, 75, 6924-6928.	1.4	153
9	Mechanistic Studies of the Photocatalytic Oxidation of Microcystin-LR:Â An Investigation of Byproducts of the Decomposition Process. Environmental Science & Technology, 2003, 37, 3214-3219.	4.6	138
10	Detoxification of Microcystins (Cyanobacterial Hepatotoxins) Using TiO2 Photocatalytic Oxidation. Environmental Science & Technology, 1999, 33, 771-775.	4.6	135
11	Biodegradation of microcystins and nodularin in freshwaters. Chemosphere, 2008, 73, 1315-1321.	4.2	135
12	Cyanobacterial (Blueâ€Green Algal) Toxins and their Significance in UK and European Waters. Water and Environment Journal, 1991, 5, 460-465.	1.0	122
13	Processes influencing surface interaction and photocatalytic destruction of microcystins on titanium dioxide photocatalysts. Journal of Catalysis, 2003, 213, 109-113.	3.1	109
14	Simultaneous cellulose conversion and hydrogen production assisted by cellulose decomposition under UV-light photocatalysis. Chemical Communications, 2016, 52, 1673-1676.	2.2	98
15	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
16	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.	0.7	82
17	Purification of microcystins. Journal of Chromatography A, 2001, 912, 191-209.	1.8	76
18	Comparative assessment of visible light and UV active photocatalysts by hydroxyl radical quantification. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 334, 13-19.	2.0	76

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19	Depuration rates and the sensory threshold concentration of geosmin responsible for earthy-musty taint in rainbow trout, Onchorhynchus mykiss. Aquaculture, 2005, 245, 89-99.	1.7	75
20	Cellulose II as bioethanol feedstock and its advantages over native cellulose. Renewable and Sustainable Energy Reviews, 2017, 77, 182-192.	8.2	72
21	Optimization of intracellular microcystin extraction for their subsequent analysis by high-performance liquid chromatography. Journal of Chromatography A, 2005, 1074, 23-30.	1.8	70
22	Destruction of cyanobacterial toxins by semiconductor photocatalysis. Chemical Communications, 1997, , 393-394.	2.2	64
23	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
24	Can ingested cyanobacteria be harmful to the signal crayfish (Pacifastacus leniusculus)?. Freshwater Biology, 1998, 39, 233-242.	1.2	60
25	The destruction of 2-methylisoborneol and geosmin using titanium dioxide photocatalysis. Applied Catalysis B: Environmental, 2003, 44, 9-13.	10.8	60
26	Mechanistic and toxicity studies of the photocatalytic oxidation of microcystin-LR. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 349-354.	2.0	56
27	An investigation into the occurrence of geosmin responsible for earthyâ€“musty taints in UK farmed rainbow trout, Onchorhynchus mykiss. Aquaculture, 2006, 259, 153-163.	1.7	56
28	Passive sampling: partition coefficients for a silicone rubber reference phase. Journal of Environmental Monitoring, 2007, 9, 1116.	2.1	55
29	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
30	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, 5288-5295.	1.4	53
31	Rapid selection of anti-hapten antibodies isolated from synthetic and semi-synthetic antibody phage display libraries expressed inEscherichia coli. FEMS Microbiology Letters, 2002, 210, 257-261.	0.7	47
32	The photocatalytic decomposition of microcystin-LR using selected titanium dioxide materials. Chemosphere, 2009, 76, 549-553.	4.2	47
33	Rapid detection of microcystins in cells and water. Toxicon, 2010, 55, 973-978.	0.8	47
34	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
35	Effect of controlled periodic-based illumination on the photonic efficiency of photocatalytic degradation of methyl orange. Journal of Catalysis, 2012, 290, 138-142.	3.1	44
36	Enhancing photocatalytic degradation of the cyanotoxin microcystin-LR with the addition of sulfate-radical generating oxidants. Journal of Hazardous Materials, 2018, 360, 461-470.	6.5	44

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37	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
38	Photocatalytic degradation of eleven microcystin variants and nodularin by TiO2 coated glass microspheres. Journal of Hazardous Materials, 2015, 300, 347-353.	6.5	42
39	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
40	Adsorption of a diverse range of pharmaceuticals to polyethylene microplastics in wastewater and their desorption in environmental matrices. Science of the Total Environment, 2022, 808, 152071.	3.9	41
41	Occurrence of toxigenic cyanobacterial blooms in freshwaters of Sri Lanka. Systematic and Applied Microbiology, 2006, 29, 156-164.	1.2	39
42	The degradation of microcystin-LR using doped visible light absorbing photocatalysts. Chemosphere, 2010, 78, 1182-1185.	4.2	39
43	The Involvement of Phycocyanin Pigment in the Photodecomposition of the Cyanobacterial Toxin, Microcystin-LR. Journal of Porphyrins and Phthalocyanines, 1999, 03, 544-551.	0.4	38
44	A Bioactive Modified Peptide, Aeruginosamide, Isolated from the CyanobacteriumMicrocystisaeruginosa. Journal of Organic Chemistry, 1999, 64, 5329-5332.	1.7	36
45	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
46	Detection and quantification of microcystins (cyanobacterial hepatotoxins) with recombinant antibody fragments isolated from a naÃƒÂ¯ve human phage display library. FEMS Microbiology Letters, 2000, 193, 83-88.	0.7	35
47	Chapter 4 Bioremediation of Cyanotoxins. Advances in Applied Microbiology, 2009, 67, 109-129.	1.3	35
48	Novel bacterial strains for the removal of microcystins from drinking water. Water Science and Technology, 2011, 63, 1137-1142.	1.2	35
49	Removal of cyanobacterial toxins (microcystins) and cyanobacterial cells from drinking water using domestic water filters. Water Research, 1998, 32, 633-638.	5.3	34
50	The photocatalytic destruction of the cyanotoxin, nodularin using TiO2. Applied Catalysis B: Environmental, 2005, 60, 245-252.	10.8	33
51	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
52	Biodesalination: A Case Study for Applications of Photosynthetic Bacteria in Water Treatment Â. Plant Physiology, 2014, 164, 1661-1676.	2.3	33
53	Evaluation of Assay Methods for the Determination of Cyanobacterial Hepatotoxicity. , 1994, , 111-116.		33
54	Stability of toxigenic Microcystis blooms. Harmful Algae, 2009, 8, 377-384.	2.2	32

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55	New directions and challenges in engineering biologically-enhanced biochar for biological water treatment. Science of the Total Environment, 2021, 796, 148977.	3.9	32
56	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.	0.7	32
57	Use of a rapid bioluminescence assay for detecting cyanobacterial microcystin toxicity. Letters in Applied Microbiology, 1990, 11, 205-207.	1.0	31
58	Title is missing!. Hydrobiologia, 1999, 404, 123-129.	1.0	31
59	Processes influencing the destruction of microcystin-LR by TiO2 photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 116, 215-219.	2.0	29
60	Controlled periodic illumination in semiconductor photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 319-320, 96-106.	2.0	27
61	Adsorption of cyanotoxins on polypropylene and polyethylene terephthalate: Microplastics as vector of eight microcystin analogues. Environmental Pollution, 2022, 303, 119135.	3.7	27
62	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
63	Current Trends and Challenges for Rapid SMART Diagnostics at Point-of-Site Testing for Marine Toxins. Sensors, 2021, 21, 2499.	2.1	25
64	Polyamide microplastics in wastewater as vectors of cationic pharmaceutical drugs. Chemosphere, 2022, 288, 132578.	4.2	25
65	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.	10.8	24
66	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.	6.6	24
67	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
68	Microcystin producing cyanobacterium Nostoc sp. BHU001 from a pond in India. Toxicon, 2009, 53, 587-590.	0.8	21
69	Biodesalination: an emerging technology for targeted removal of Na⁺and Cl^{âˆ’}from seawater by cyanobacteria. Desalination and Water Treatment, 2015, 55, 2647-2668.	1.0	21
70	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
71	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
72	Using cellulose polymorphs for enhanced hydrogen production from photocatalytic reforming. Sustainable Energy and Fuels, 2019, 3, 1971-1975.	2.5	20

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73	Isolation and Detection of Microcystins and Nodularins, Cyanobacterial Peptide Hepatotoxins. , 2000, 145, 65-87.		19
74	Conventional laboratory methods for cyanotoxins. , 2008, 619, 513-537.		19
75	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.	10.8	19
76	The effect of water treatment unit processes on cyanobacterial trichome integrity. Science of the Total Environment, 2019, 659, 1403-1414.	3.9	19
77	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
78	Sudden flamingo deaths in Kenyan Rift Valley lakes. Wildlife Biology, 2014, 20, 185-189.	0.6	18
79	UV LED Sources for Heterogeneous Photocatalysis. Handbook of Environmental Chemistry, 2014, , 159-179.	0.2	17
80	Automated purification of microcystins. Journal of Chromatography A, 1996, 734, 175-182.	1.8	16
81	In vivo influence of cyanobacterial toxins on enzyme activity and gene expression of protein phosphatases in Alfalfa (Medicago sativa). Toxicon, 2008, 52, 84-90.	0.8	16
82	Removal of microcystins from a waste stabilisation lagoon: Evaluation of a packed-bed continuous flow TiO2 reactor. Chemosphere, 2020, 245, 125575.	4.2	16
83	The involvement of phycocyanin pigment in the photodecomposition of the cyanobacterial toxin, microcystinâ€LR. Journal of Porphyrins and Phthalocyanines, 1999, 3, 544-551.	0.4	16
84	A new generation of biocides for control of crustacea in fish farms. Journal of Photochemistry and Photobiology B: Biology, 2009, 95, 58-63.	1.7	14
85	A photocatalytic impeller reactor for gas phase heterogeneous photocatalysis. Journal of Environmental Chemical Engineering, 2017, 5, 3942-3948.	3.3	14
86	Rapid uptake and slow depuration: Health risks following cyanotoxin accumulation in mussels?. Environmental Pollution, 2021, 271, 116400.	3.7	13
87	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
88	Development of an extraction procedure for the quantitative analysis of microcystins in cyanobacterial cells. Phycologia, 1996, 35, 57-61.	0.6	11
89	Elevated microcystin and nodularin levels in cyanobacteria growing in spent medium of Planktothrix agardhii. Archiv FÃ¼r Hydrobiologie, 2003, 158, 541-550.	1.1	11
90	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

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91	New nodulopeptins from Nodularia spumigena KAC 66. Tetrahedron, 2012, 68, 1622-1628.	1.0	10
92	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
93	Archaeological medicinal earths as antibacterial agents: the case of the Basel Lemnian sphragides. Geological Society Special Publication, 2017, 452, 141-153.	0.8	10
94	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
95	Recoverable resources from pot ale & spent wash from Scotch Whisky production. Resources, Conservation and Recycling, 2022, 179, 106114.	5.3	10
96	Assessment of microcystin purity using charged aerosol detection. Journal of Chromatography A, 2010, 1217, 5233-5238.	1.8	9
97	Daphnia magna Exudates Impact Physiological and Metabolic Changes in Microcystis aeruginosa. Toxins, 2019, 11, 421.	1.5	9
98	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
99	Cross talk: Two way allelopathic interactions between toxic Microcystis and Daphnia. Harmful Algae, 2020, 94, 101803.	2.2	9
100	Hazardous cyanobacteria integrity response to velocity gradient and powdered activated carbon in water treatment plants. Science of the Total Environment, 2021, 773, 145110.	3.9	9
101	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
102	Mixing regime simulation and cellulose particle tracing in a stacked frame photocatalytic reactor. Chemical Engineering Journal, 2017, 313, 301-308.	6.6	8
103	Rapid analytical methods for the microalgal and cyanobacterial biorefinery: Application on strains of industrial importance. MicrobiologyOpen, 2021, 10, e1156.	1.2	8
104	Degradation of Multiple Peptides by Microcystin-Degrader Paucibacter toxinivorans (2C20). Toxins, 2021, 13, 265.	1.5	8
105	The occurrence of toxic blue-green algae in Lake RingsjÃ¶n, southern Sweden, despite nutrient reduction and fish biomanipulation. , 1999, , 123-129.		8
106	Off-Flavor Problems and a Potential Solution within the U.K. Trout Industry. ACS Symposium Series, 2003, , 55-68.	0.5	6
107	High Value Phycotoxins From the Dinoflagellate Prorocentrum. Frontiers in Marine Science, 2021, 8, .	1.2	6
108	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.	3.9	6

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109	Oxidative stress in the cyanobacterium Microcystis aeruginosa PCC 7813: Comparison of different analytical cell stress detection assays. Chemosphere, 2021, 269, 128766.	4.2	5
110	Anatoxin-a degradation by using titanium dioxide. Science of the Total Environment, 2021, 756, 143590.	3.9	5
111	Photocatalytic Destruction of Geosmin Using Novel Pelleted Titanium Dioxide. Journal of Advanced Oxidation Technologies, 2008, 11, .	0.5	4
112	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
113	Cell free Microcystis aeruginosa spent medium affects Daphnia magna survival and stress response. Toxicon, 2021, 195, 37-47.	0.8	3
114	Grazing rates on toxic and non-toxic strains of cyanobacteria by Hypophthalmichthys molitrix and Oreochromis niloticus. , 1993, 43, 901.		3
115	Detection of Cyanobacterial (Blue-green Algal) Peptide Toxins by Protein Phosphatase Inhibition. , 1994, , 175-180.		3
116	Multi-bubble sonoluminescence: laboratory curiosity, or real world application?. , 2008, , .		2
117	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
118	The Analysis of Microcystins in Raw and Treated Water. , 1994, , 59-63.		2
119	Radiolytic degradation of 2-methylisoborneol and geosmin in water: Reactive radical species and transformation pathways. Chemical Engineering Journal Advances, 2021, 8, 100196.	2.4	2
120	The detection and quantification of cyanobacterial toxins in water using the brine shrimp (<i>Artemia) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	1
121	Detection and quantification of toxins in cultures of microcystis aeruginosa (pcc 7820) by hplc and protein phosphatase inhibition assayffect of blending various collectors at bulk. African Journal of Science and Technology, 2010, 6, .	0.2	1
122	Energy efficient operation of photocatalytic reactors based on UV LEDs for pollution remediation in water. , 2017, , .		1
123	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
124	Cellulose Photocatalysis for Renewable Energy Production. Environmental Chemistry for A Sustainable World, 2021, , 1-34.	0.3	1
125	â€™Biodesalinationâ€™: a synthetic biology approach for the use of photosynthetic bacteria in water treatment. New Biotechnology, 2014, 31, S140-S141.	2.4	0
126	Safe water for all: A nature-based approach for cyanotoxin elimination from potable water. Access Microbiology, 2020, 2, .	0.2	0