James Metcalf

List of Publications by Year in descending order

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96 papers	7,617 citations	47 h-index	85 g-index
		47006	53230
110 all docs	110 docs citations	110 times ranked	5054 citing authors

#	Article	IF	Citations
1	Cyanobacterial toxins: risk management for health protection. Toxicology and Applied Pharmacology, 2005, 203, 264-272.	2.8	964
2	Diverse taxa of cyanobacteria produce Â-N-methylamino-L-alanine, a neurotoxic amino acid. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5074-5078.	7.1	610
3	Cyanobacterial toxins, exposure routes and human health. European Journal of Phycology, 1999, 34, 405-415.	2.0	444
4	Effects of Light on the Microcystin Content of Microcystis Strain PCC 7806. Applied and Environmental Microbiology, 2003, 69, 1475-1481.	3.1	259
5	Contribution of hot spring cyanobacteria to the mysterious deaths of Lesser Flamingos at Lake Bogoria, Kenya. FEMS Microbiology Ecology, 2003, 43, 141-148.	2.7	248
6	Coâ€occurrence of Î²â€Nâ€methylaminoâ€<scp>l</scp>â€alanine, a neurotoxic amino acid with other cyanobacterial toxins in British waterbodies, 1990â€“2004. Environmental Microbiology, 2008, 10, 702-708.	3.8	229
7	Oxidative elimination of cyanotoxins: Comparison of ozone, chlorine, chlorine dioxide and permanganate. Water Research, 2007, 41, 3381-3393.	11.3	222
8	Dietary exposure to an environmental toxin triggers neurofibrillary tangles and amyloid deposits in the brain. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152397.	2.6	176
9	Effects of enteric bacterial and cyanobacterial lipopolysaccharides, and of microcystin-LR, on glutathione S-transferase activities in zebra fish (Danio rerio). Aquatic Toxicology, 2002, 60, 223-231.	4.0	154
10	Retention of Microcystis aeruginosa and microcystin by salad lettuce (Lactuca sativa) after spray irrigation with water containing cyanobacteria. Toxicon, 1999, 37, 1181-1185.	1.6	153
11	First observation of cylindrospermopsin inAnabaena lapponica isolated from the boreal environment (Finland). Environmental Toxicology, 2006, 21, 552-560.	4.0	153
12	Cyanobacteria and cyanobacterial toxins in three alkaline Rift Valley lakes of Kenya–Lakes Bogoria, Nakuru and Elmenteita. Journal of Plankton Research, 2004, 26, 925-935.	1.8	152
13	Cyanobacteria and BMAA exposure from desert dust: A possible link to sporadic ALS among Gulf War veterans. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 109-117.	2.1	145
14	An international intercomparison exercise for the determination of purified microcystin-LR and microcystins in cyanobacterial field material. Analytical and Bioanalytical Chemistry, 2002, 374, 437-444.	3.7	116
15	Dietary BMAA Exposure in an Amyotrophic Lateral Sclerosis Cluster from Southern France. PLoS ONE, 2013, 8, e83406.	2.5	116
16	Accumulation and depuration of the cyanobacterial toxin cylindrospermopsin in the freshwater mussel Anodonta cygnea. Toxicon, 2004, 43, 185-194.	1.6	112
17	Cyanotoxins in desert environments may present a risk to human health. Science of the Total Environment, 2012, 421-422, 118-123.	8.0	109
18	Immuno-crossreactivity and toxicity assessment of conjugation products of the cyanobacterial toxin, microcystin-LR. FEMS Microbiology Letters, 2000, 189, 155-158.	1.8	104

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19	Nitrogen starvation of cyanobacteria results in the production ofÂÎ²-N-methylamino-L-alanine. Toxicon, 2011, 58, 187-194.	1.6	101
20	Harmful Cyanobacteria. , 2005, , 1-23.		98
21	Kinetics of the oxidation of cylindrospermopsin and anatoxin-a with chlorine, monochloramine and permanganate. Water Research, 2007, 41, 2048-2056.	11.3	95
22	Immunogold localisation of microcystins in cryosectioned cells of Microcystis. Journal of Structural Biology, 2005, 151, 208-214.	2.8	91
23	Toxicity of cylindrospermopsin to the brine shrimp Artemia salina: comparisons with protein synthesis inhibitors and microcystins. Toxicon, 2002, 40, 1115-1120.	1.6	90
24	Colorimetric Immuno-Protein Phosphatase Inhibition Assay for Specific Detection of Microcystins and Nodularins of Cyanobacteria. Applied and Environmental Microbiology, 2001, 67, 904-909.	3.1	85
25	Detection of Cyanotoxins, Î²-N-methylamino-L-alanine and Microcystins, from a Lake Surrounded by Cases of Amyotrophic Lateral Sclerosis. Toxins, 2015, 7, 322-336.	3.4	84
26	Analysis of Cyanobacterial Toxins by Immunological Methods. Chemical Research in Toxicology, 2003, 16, 103-112.	3.3	79
27	Microwave oven and boiling waterbath extraction of hepatotoxins from cyanobacterial cells. FEMS Microbiology Letters, 2000, 184, 241-246.	1.8	71
28	Inhibition of plant protein synthesis by the cyanobacterial hepatotoxin, cylindrospermopsin. FEMS Microbiology Letters, 2004, 235, 125-129.	1.8	69
29	Linking Î²-methylamino-l-alanine exposure to sporadic amyotrophic lateral sclerosis in Annapolis, MD. Toxicon, 2013, 70, 179-183.	1.6	69
30	Depth profiles of cyanobacterial hepatotoxins (microcystins) in three Turkish freshwater lakes. Hydrobiologia, 2003, 505, 89-95.	2.0	65
31	L-Serine: a Naturally-Occurring Amino Acid with Therapeutic Potential. Neurotoxicity Research, 2018, 33, 213-221.	2.7	65
32	Effects of adsorption to plastics and solvent conditions in the analysis of the cyanobacterial toxin microcystin-LR by high performance liquid chromatography. Water Research, 2001, 35, 3508-3511.	11.3	64
33	Losses of the cyanobacterial toxin microcystin-LR from aqueous solution by adsorption during laboratory manipulations. Toxicon, 2001, 39, 589-594.	1.6	63
34	Analysis of dissolved microcystins in surface water samples from Kovada Lake, Turkey. Science of the Total Environment, 2009, 407, 4038-4046.	8.0	63
35	Distinguishing the cyanobacterial neurotoxin Î²-N-methylamino-l-alanine (BMAA) from its structural isomer 2,4-diaminobutyric acid (2,4-DAB). Toxicon, 2010, 56, 868-879.	1.6	63
36	Cyanobacteria Produce N-(2-Aminoethyl)Glycine, a Backbone for Peptide Nucleic Acids Which May Have Been the First Genetic Molecules for Life on Earth. PLoS ONE, 2012, 7, e49043.	2.5	61

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37	Laboratory studies of dissolved radiolabelled microcystin-LR in lake water. Water Research, 2003, 37, 3299-3306.	11.3	60
38	Desert crust microorganisms, their environment, and human health. Journal of Arid Environments, 2015, 112, 127-133.	2.4	60
39	Distinguishing the cyanobacterial neurotoxin Î²-N-methylamino-l-alanine (BMAA) from other diamino acids. Toxicon, 2011, 57, 730-738.	1.6	59
40	Detection of cyanobacterial neurotoxin Î²-N-methylamino-l-alanine within shellfish in the diet of an ALS patient in Florida. Toxicon, 2014, 90, 167-173.	1.6	59
41	Occurrence of microcystins in water, bloom, sediment and fish from a public water supply. Science of the Total Environment, 2016, 562, 860-868.	8.0	59
42	Co-Occurrence of Cyanobacteria and Cyanotoxins with Other Environmental Health Hazards: Impacts and Implications. Toxins, 2020, 12, 629.	3.4	59
43	Effects of organic solvents on the high performance liquid chromatographic analysis of the cyanobacterial toxin cylindrospermopsin and its recovery from environmental eutrophic waters by solid phase extraction. FEMS Microbiology Letters, 2002, 216, 159-164.	1.8	57
44	Phase I clinical trial of safety of L-serine for ALS patients. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2017, 18, 107-111.	1.7	57
45	Interlaboratory comparison trial on cylindrospermopsin measurement. Analytical Biochemistry, 2004, 332, 280-284.	2.4	53
46	Effects of physicochemical variables and cyanobacterial extracts on the immunoassay of microcystin-LR by two ELISA kits. Journal of Applied Microbiology, 2000, 89, 532-538.	3.1	52
47	Cyanotoxins. , 2012, , 651-675.		51
48	Protection against the toxicity of microcystin-LR and cylindrospermopsin in Artemia salina and Daphnia spp. by pre-treatment with cyanobacterial lipopolysaccharide (LPS). Toxicon, 2006, 48, 995-1001.	1.6	49
49	The persistence of cyanobacterial toxins in desert soils. Journal of Arid Environments, 2015, 112, 134-139.	2.4	49
50	Microcystin analysis in single filaments of Planktothrix spp. in laboratory cultures and environmental blooms. Water Research, 2006, 40, 1583-1590.	11.3	48
51	Neurotoxic amino acids and their isomers in desert environments. Journal of Arid Environments, 2015, 112, 140-144.	2.4	46
52	Toxin Analysis of Freshwater Cyanobacterial and Marine Harmful Algal Blooms on the West Coast of Florida and Implications for Estuarine Environments. Neurotoxicity Research, 2021, 39, 27-35.	2.7	45
53	l-Serine Reduces Spinal Cord Pathology in a Vervet Model of Preclinical ALS/MND. Journal of Neuropathology and Experimental Neurology, 2020, 79, 393-406.	1.7	42
54	Cyanobacteria and cyanotoxins are present in drinking water impoundments and groundwater wells in desert environments. Toxicon, 2016, 114, 75-84.	1.6	41

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55	Toxicity of the cyanobacterial neurotoxin Î²-N-methylamino-L-alanine to three aquatic animal species. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 67-70.	2.1	40
56	Presence of the neurotoxic amino acids Î²-N-methylamino-L-alanine (BMAA) and 2,4-diamino-butyric acid (DAB) in shallow springs from the Gobi Desert. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 96-100.	2.1	39
57	Cyanobacteria, neurotoxins and water resources: Are there implications for human neurodegenerative disease?. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 74-78.	2.1	39
58	Analysis of the cyanotoxins anatoxin-a and microcystins in Lesser Flamingo feathersâ€. Toxicological and Environmental Chemistry, 2006, 88, 159-167.	1.2	38
59	Analysis of Cyanobacterial Toxins by Physicochemical and Biochemical Methods. Journal of AOAC INTERNATIONAL, 2001, 84, 1626-1635.	1.5	36
60	ANALYSIS OF NODULARIN-R IN EIDER (SOMATERIA MOLLISSIMA), ROACH (RUTILUS RUTILUS L.), AND FLOUNDER (PLATICHTHYS FLESUS L.) LIVER AND MUSCLE SAMPLES FROM THE WESTERN GULF OF FINLAND, NORTHERN BALTIC SEA. Environmental Toxicology and Chemistry, 2006, 25, 2834.	4.3	35
61	Production of antibodies against microcystin-RR for the assessment of purified microcystins and cyanobacterial environmental samples. Toxicon, 2006, 48, 295-306.	1.6	33
62	Amino acid neurotoxins in feathers of the Lesser Flamingo, Phoeniconaias minor. Chemosphere, 2013, 90, 835-839.	8.2	31
63	Analysis of BMAA enantiomers in cycads, cyanobacteria, and mammals: in vivo formation and toxicity of d-BMAA. Amino Acids, 2017, 49, 1427-1439.	2.7	29
64	Cross-reactivity and performance assessment of four microcystin immunoassays with detoxication products of the cyanobacterial toxin, microcystin-LR. Journal of Water Supply: Research and Technology - AQUA, 2002, 51, 145-151.	1.4	29
65	Public health responses to toxic cyanobacterial blooms: perspectives from the 2016 Florida event. Water Policy, 2018, 20, 919-932.	1.5	27
66	Susceptibility of flamingos to cyanobacterial toxins via feeding. Veterinary Record, 2003, 152, 722-3.	0.3	27
67	Cyanotoxins as a potential cause of dog poisonings in desert environments. Veterinary Record, 2014, 174, 484-485.	0.3	26
68	l-Serine-Mediated Neuroprotection Includes the Upregulation of the ER Stress Chaperone Protein Disulfide Isomerase (PDI). Neurotoxicity Research, 2018, 33, 113-122.	2.7	26
69	Leucine aminopeptidase M inhibitors, cyanostatin A and B, isolated from cyanobacterial water blooms in Scotland. Phytochemistry, 2005, 66, 543-548.	2.9	25
70	Grazing livestock are exposed to terrestrial cyanobacteria. Veterinary Research, 2015, 46, 16.	3.0	25
71	Variation in the coverage of biological soil crusts in the State of Qatar. Journal of Arid Environments, 2012, 78, 187-190.	2.4	23
72	Nodularin in feathers and liver of eiders (Somateria mollissima) caught from the western Gulf of Finland in Juneâ€“September 2005. Harmful Algae, 2008, 7, 99-105.	4.8	22

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73	Traditional Food Items in Ogimi, Okinawa: l-Serine Content and the Potential for Neuroprotection. Current Nutrition Reports, 2017, 6, 24-31.	4.3	22
74	Analysis of Neurotoxic Amino Acids from Marine Waters, Microbial Mats, and Seafood Destined for Human Consumption in the Arabian Gulf. Neurotoxicity Research, 2018, 33, 143-152.	2.7	21
75	Analysis of cyanobacterial toxins by physicochemical and biochemical methods. Journal of AOAC INTERNATIONAL, 2001, 84, 1626-35.	1.5	20
76	Cyanotoxins and the Nervous System. Toxins, 2021, 13, 660.	3.4	19
77	Evaluation of Enzyme-Linked Immunosorbent Assays (ELISAs) for the Determination of Microcystins in Cyanobacteria. Environmental Forensics, 2012, 13, 105-109.	2.6	17
78	LOCALIZATION OF MICROCYSTIN SYNTHETASE GENES IN COLONIES OF THE CYANOBACTERIUM MICROCYSTIS USING FLUORESCENCE IN SITU HYBRIDIZATION¹. Journal of Phycology, 2009, 45, 1400-1404.	2.3	15
79	Do vervets and macaques respond differently to BMAA?. NeuroToxicology, 2016, 57, 310-311.	3.0	15
80	A Novel Biosurfactant, 2-Acyloxyethylphosphonate, Isolated from Waterblooms of Aphanizomenon flos-aquae. Molecules, 2006, 11, 539-548.	3.8	14
81	Inhibition of plant protein synthesis by the cyanobacterial hepatotoxin, cylindrospermopsin. FEMS Microbiology Letters, 2004, 235, 125-129.	1.8	14
82	Plant-cyanobacteria interactions: Beneficial and harmful effects of cyanobacterial bioactive compounds on soil-plant systems and subsequent risk to animal and human health. Phytochemistry, 2021, 192, 112959.	2.9	13
83	Legal and security requirements for the air transportation of cyanotoxins and toxigenic cyanobacterial cells for legitimate research and analytical purposes. Toxicology Letters, 2006, 163, 85-90.	0.8	12
84	Title is missing!. ScienceAsia, 2006, 32, 365.	0.5	10
85	Cyanobacterial toxins, exposure routes and human health. European Journal of Phycology, 1999, 34, 405-415.	2.0	9
86	Cyanotoxin Analysis and Amino Acid Profiles of Cyanobacterial Food Items from Chad. Neurotoxicity Research, 2021, 39, 72-80.	2.7	7
87	Î²-N-methylamino- <scp>l</scp> -alanine analysis in the brains of patients with Kii ALS/PDC. Neurology, 2017, 89, 1091-1092.	1.1	5
88	Performance assessment of a cylindrospermopsin ELISA with purified compounds and cyanobacterial extracts. Environmental Forensics, 2017, 18, 147-152.	2.6	4
89	Early-earth nonprotein amino acid metabolites in modern cyanobacterial microbialites. Environmental Chemistry Letters, 2020, 18, 467-473.	16.2	4
90	Immuno-crossreactivity and toxicity assessment of conjugation products of the cyanobacterial toxin, microcystin-LR. FEMS Microbiology Letters, 2000, 189, 155-158.	1.8	4

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91	Necrotic enteritis in mute swans associated with cyanobacterial toxins. Veterinary Record, 2004, 154, 575-6.	0.3	4
92	Harmful Algal and Cyanobacterial Harmful Algal Blooms in the Arabian Seas: Current Status, Implications, and Future Directions. , 2021, , 1083-1101.		2
93	Microwave oven and boiling waterbath extraction of hepatotoxins from cyanobacterial cells. FEMS Microbiology Letters, 2000, 184, 241-246.	1.8	2
94	In Vivo and In Vitro Toxicity Testing of Cyanobacterial Toxins: A Mini-Review. Reviews of Environmental Contamination and Toxicology, 2021, 258, 109-150.	1.3	2
95	Desert Dust as a Vector for Cyanobacterial Toxins. , 2021, , 161-178.		1
96	BMAA Neurotoxicity. , 2021, , 1-16.		1