

# James Metcalf

## List of Publications by Citations

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105  
papers

6,360  
citations

44  
h-index

79  
g-index

108  
ext. papers

6,935  
ext. citations

4.2  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
105	Cyanobacterial toxins: risk management for health protection. <i>Toxicology and Applied Pharmacology</i> , <b>2005</b> , 203, 264-72	4.6	819
104	Diverse taxa of cyanobacteria produce beta-N-methylamino-L-alanine, a neurotoxic amino acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 5074-8	11.5	516
103	Cyanobacterial toxins, exposure routes and human health. <i>European Journal of Phycology</i> , <b>1999</b> , 34, 405-415	4.15	377
102	Effects of light on the microcystin content of <i>Microcystis</i> strain PCC 7806. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 1475-81	4.8	221
101	Co-occurrence of beta-N-methylamino-L-alanine, a neurotoxic amino acid with other cyanobacterial toxins in British waterbodies, 1990-2004. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 702-8	5.2	203
100	Contribution of hot spring cyanobacteria to the mysterious deaths of Lesser Flamingos at Lake Bogoria, Kenya. <i>FEMS Microbiology Ecology</i> , <b>2003</b> , 43, 141-8	4.3	199
99	Oxidative elimination of cyanotoxins: comparison of ozone, chlorine, chlorine dioxide and permanganate. <i>Water Research</i> , <b>2007</b> , 41, 3381-93	12.5	184
98	Effects of enteric bacterial and cyanobacterial lipopolysaccharides, and of microcystin-LR, on glutathione S-transferase activities in zebra fish ( <i>Danio rerio</i> ). <i>Aquatic Toxicology</i> , <b>2002</b> , 60, 223-31	5.1	144
97	Dietary exposure to an environmental toxin triggers neurofibrillary tangles and amyloid deposits in the brain. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	143
96	First observation of cylindrospermopsin in <i>Anabaena lapponica</i> isolated from the boreal environment (Finland). <i>Environmental Toxicology</i> , <b>2006</b> , 21, 552-60	4.2	135
95	Retention of <i>Microcystis aeruginosa</i> and microcystin by salad lettuce ( <i>Lactuca sativa</i> ) after spray irrigation with water containing cyanobacteria. <i>Toxicon</i> , <b>1999</b> , 37, 1181-5	2.8	133
94	Cyanobacteria and BMAA exposure from desert dust: a possible link to sporadic ALS among Gulf War veterans. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2009</b> , 10 Suppl 2, 109-17		131
93	Cyanobacteria and cyanobacterial toxins in three alkaline Rift Valley lakes of Kenya Lakes Bogoria, Nakuru and Elmenteita. <i>Journal of Plankton Research</i> , <b>2004</b> , 26, 925-935	2.2	122
92	An international intercomparison exercise for the determination of purified microcystin-LR and microcystins in cyanobacterial field material. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 374, 437-44	4.4	100
91	Accumulation and depuration of the cyanobacterial toxin cylindrospermopsin in the freshwater mussel <i>Anodonta cygnea</i> . <i>Toxicon</i> , <b>2004</b> , 43, 185-94	2.8	99
90	Dietary BMAA exposure in an amyotrophic lateral sclerosis cluster from southern France. <i>PLoS ONE</i> , <b>2013</b> , 8, e83406	3.7	97
89	Immuno-crossreactivity and toxicity assessment of conjugation products of the cyanobacterial toxin, microcystin-LR. <i>FEMS Microbiology Letters</i> , <b>2000</b> , 189, 155-8	2.9	95

88	Cyanotoxins in desert environments may present a risk to human health. <i>Science of the Total Environment</i> , <b>2012</b> , 421-422, 118-23	10.2	90
87	Nitrogen starvation of cyanobacteria results in the production of β-N-methylamino-L-alanine. <i>Toxicon</i> , <b>2011</b> , 58, 187-94	2.8	88
86	Harmful Cyanobacteria <b>2005</b> , 1-23		84
85	Toxicity of cylindrospermopsin to the brine shrimp <i>Artemia salina</i> : comparisons with protein synthesis inhibitors and microcystins. <i>Toxicon</i> , <b>2002</b> , 40, 1115-120	2.8	83
84	Kinetics of the oxidation of cylindrospermopsin and anatoxin-a with chlorine, monochloramine and permanganate. <i>Water Research</i> , <b>2007</b> , 41, 2048-56	12.5	76
83	Detection of cyanotoxins, β-N-methylamino-L-alanine and microcystins, from a lake surrounded by cases of amyotrophic lateral sclerosis. <i>Toxins</i> , <b>2015</b> , 7, 322-36	4.9	73
82	Immunogold localisation of microcystins in cryosectioned cells of <i>Microcystis</i> . <i>Journal of Structural Biology</i> , <b>2005</b> , 151, 208-14	3.4	72
81	Analysis of cyanobacterial toxins by immunological methods. <i>Chemical Research in Toxicology</i> , <b>2003</b> , 16, 103-12	4	70
80	Colorimetric immuno-protein phosphatase inhibition assay for specific detection of microcystins and nodularins of cyanobacteria. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 904-9	4.8	70
79	Microwave oven and boiling waterbath extraction of hepatotoxins from cyanobacterial cells. <i>FEMS Microbiology Letters</i> , <b>2000</b> , 184, 241-6	2.9	61
78	Linking β-N-methylamino-L-alanine exposure to sporadic amyotrophic lateral sclerosis in Annapolis, MD. <i>Toxicon</i> , <b>2013</b> , 70, 179-83	2.8	60
77	Inhibition of plant protein synthesis by the cyanobacterial hepatotoxin, cylindrospermopsin. <i>FEMS Microbiology Letters</i> , <b>2004</b> , 235, 125-129	2.9	60
76	Distinguishing the cyanobacterial neurotoxin beta-N-methylamino-L-alanine (BMAA) from its structural isomer 2,4-diaminobutyric acid (2,4-DAB). <i>Toxicon</i> , <b>2010</b> , 56, 868-79	2.8	56
75	Analysis of dissolved microcystins in surface water samples from Kovada Lake, Turkey. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 4038-46	10.2	55
74	Laboratory studies of dissolved radiolabelled microcystin-LR in lake water. <i>Water Research</i> , <b>2003</b> , 37, 3299-306	12.5	55
73	Effects of adsorption to plastics and solvent conditions in the analysis of the cyanobacterial toxin microcystin-LR by high performance liquid chromatography. <i>Water Research</i> , <b>2001</b> , 35, 3508-11	12.5	55
72	Cyanobacteria produce N-(2-aminoethyl)glycine, a backbone for peptide nucleic acids which may have been the first genetic molecules for life on Earth. <i>PLoS ONE</i> , <b>2012</b> , 7, e49043	3.7	54
71	Distinguishing the cyanobacterial neurotoxin β-N-methylamino-L-alanine (BMAA) from other diamino acids. <i>Toxicon</i> , <b>2011</b> , 57, 730-8	2.8	54

70	Losses of the cyanobacterial toxin microcystin-LR from aqueous solution by adsorption during laboratory manipulations. <i>Toxicon</i> , <b>2001</b> , 39, 589-94	2.8	54
69	Detection of cyanobacterial neurotoxin $\beta$ -N-methylamino-L-alanine within shellfish in the diet of an ALS patient in Florida. <i>Toxicon</i> , <b>2014</b> , 90, 167-73	2.8	52
68	Depth profiles of cyanobacterial hepatotoxins (microcystins) in three Turkish freshwater lakes. <i>Hydrobiologia</i> , <b>2003</b> , 505, 89-95	2.4	49
67	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. <i>FEMS Microbiology Letters</i> , <b>2002</b> , 216, 159-64	2.9	48
66	Interlaboratory comparison trial on cylindrospermopsin measurement. <i>Analytical Biochemistry</i> , <b>2004</b> , 332, 280-4	3.1	47
65	Occurrence of microcystins in water, bloom, sediment and fish from a public water supply. <i>Science of the Total Environment</i> , <b>2016</b> , 562, 860-868	10.2	46
64	Desert crust microorganisms, their environment, and human health. <i>Journal of Arid Environments</i> , <b>2015</b> , 112, 127-133	2.5	45
63	Effects of physicochemical variables and cyanobacterial extracts on the immunoassay of microcystin-LR by two ELISA kits. <i>Journal of Applied Microbiology</i> , <b>2000</b> , 89, 532-8	4.7	45
62	Phase I clinical trial of safety of L-serine for ALS patients. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , <b>2017</b> , 18, 107-111	3.6	44
61	Microcystin analysis in single filaments of <i>Planktothrix</i> spp. in laboratory cultures and environmental blooms. <i>Water Research</i> , <b>2006</b> , 40, 1583-90	12.5	44
60	The persistence of cyanobacterial toxins in desert soils. <i>Journal of Arid Environments</i> , <b>2015</b> , 112, 134-139	2.5	42
59	Cyanotoxins <b>2012</b> , 651-675		41
58	Protection against the toxicity of microcystin-LR and cylindrospermopsin in <i>Artemia salina</i> and <i>Daphnia</i> spp. by pre-treatment with cyanobacterial lipopolysaccharide (LPS). <i>Toxicon</i> , <b>2006</b> , 48, 995-1001	2.8	41
57	Neurotoxic amino acids and their isomers in desert environments. <i>Journal of Arid Environments</i> , <b>2015</b> , 112, 140-144	2.5	37
56	L-Serine: a Naturally-Occurring Amino Acid with Therapeutic Potential. <i>Neurotoxicity Research</i> , <b>2018</b> , 33, 213-221	4.3	36
55	Presence of the neurotoxic amino acids beta-N-methylamino-L-alanine (BMAA) and 2,4-diamino-butyric acid (DAB) in shallow springs from the Gobi Desert. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2009</b> , 10 Suppl 2, 96-100		34
54	Cyanobacteria and cyanotoxins are present in drinking water impoundments and groundwater wells in desert environments. <i>Toxicon</i> , <b>2016</b> , 114, 75-84	2.8	33
53	Analysis of the cyanotoxins anatoxin-a and microcystins in Lesser Flamingo feathers <a href="#">View all notes.</a> <i>Toxicological and Environmental Chemistry</i> , <b>2006</b> , 88, 159-167	1.4	32

52	Production of antibodies against microcystin-RR for the assessment of purified microcystins and cyanobacterial environmental samples. <i>Toxicon</i> , <b>2006</b> , 48, 295-306	2.8	32
51	Analysis of nodularin-R in eider ( <i>Somateria mollissima</i> ), roach ( <i>Rutilus rutilus</i> L.), and flounder ( <i>Platichthys flesus</i> L.) liver and muscle samples from the western Gulf of Finland, northern Baltic Sea. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 2834-9	3.8	32
50	Analysis of Cyanobacterial Toxins by Physicochemical and Biochemical Methods. <i>Journal of AOAC INTERNATIONAL</i> , <b>2001</b> , 84, 1626-1635	1.7	31
49	Amino acid neurotoxins in feathers of the Lesser Flamingo, <i>Phoeniconaias minor</i> . <i>Chemosphere</i> , <b>2013</b> , 90, 835-9	8.4	30
48	Toxicity of the cyanobacterial neurotoxin beta-N-methylamino-L-alanine to three aquatic animal species. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2009</b> , 10 Suppl 2, 67-70		30
47	Cyanobacteria, neurotoxins and water resources: are there implications for human neurodegenerative disease?. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2009</b> , 10 Suppl 2, 74-8		29
46	l-Serine Reduces Spinal Cord Pathology in a Vervet Model of Preclinical ALS/MND. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2020</b> , 79, 393-406	3.1	26
45	Susceptibility of flamingos to cyanobacterial toxins via feeding. <i>Veterinary Record</i> , <b>2003</b> , 152, 722-3	0.9	26
44	Cross-reactivity and performance assessment of four microcystin immunoassays with detoxication products of the cyanobacterial toxin, microcystin-LR <b>2002</b> , 51, 145-151		24
43	Co-Occurrence of Cyanobacteria and Cyanotoxins with Other Environmental Health Hazards: Impacts and Implications. <i>Toxins</i> , <b>2020</b> , 12,	4.9	24
42	Cyanotoxins as a potential cause of dog poisonings in desert environments. <i>Veterinary Record</i> , <b>2014</b> , 174, 484-5	0.9	23
41	Analysis of BMAA enantiomers in cycads, cyanobacteria, and mammals: in vivo formation and toxicity of D-BMAA. <i>Amino Acids</i> , <b>2017</b> , 49, 1427-1439	3.5	20
40	Nodularin in feathers and liver of eiders ( <i>Somateria mollissima</i> ) caught from the western Gulf of Finland in JuneSeptember 2005. <i>Harmful Algae</i> , <b>2008</b> , 7, 99-105	5.3	20
39	Leucine aminopeptidase M inhibitors, cyanostatin A and B, isolated from cyanobacterial water blooms in Scotland. <i>Phytochemistry</i> , <b>2005</b> , 66, 543-8	4	20
38	Public health responses to toxic cyanobacterial blooms: perspectives from the 2016 Florida event. <i>Water Policy</i> , <b>2018</b> , 20, 919-932	1.6	20
37	Grazing livestock are exposed to terrestrial cyanobacteria. <i>Veterinary Research</i> , <b>2015</b> , 46, 16	3.8	19
36	L-Serine-Mediated Neuroprotection Includes the Upregulation of the ER Stress Chaperone Protein Disulfide Isomerase (PDI). <i>Neurotoxicity Research</i> , <b>2018</b> , 33, 113-122	4.3	19
35	Analysis of cyanobacterial toxins by physicochemical and biochemical methods. <i>Journal of AOAC INTERNATIONAL</i> , <b>2001</b> , 84, 1626-35	1.7	19

34	Variation in the coverage of biological soil crusts in the State of Qatar. <i>Journal of Arid Environments</i> , <b>2012</b> , 78, 187-190	2.5	18
33	Toxin Analysis of Freshwater Cyanobacterial and Marine Harmful Algal Blooms on the West Coast of Florida and Implications for Estuarine Environments. <i>Neurotoxicity Research</i> , <b>2021</b> , 39, 27-35	4.3	17
32	Analysis of Neurotoxic Amino Acids from Marine Waters, Microbial Mats, and Seafood Destined for Human Consumption in the Arabian Gulf. <i>Neurotoxicity Research</i> , <b>2018</b> , 33, 143-152	4.3	17
31	Evaluation of Enzyme-Linked Immunosorbent Assays (ELISAs) for the Determination of Microcystins in Cyanobacteria. <i>Environmental Forensics</i> , <b>2012</b> , 13, 105-109	1.6	16
30	Traditional Food Items in Ogimi, Okinawa: l-Serine Content and the Potential for Neuroprotection. <i>Current Nutrition Reports</i> , <b>2017</b> , 6, 24-31	6	15
29	Inhibition of plant protein synthesis by the cyanobacterial hepatotoxin, cylindrospermopsin. <i>FEMS Microbiology Letters</i> , <b>2004</b> , 235, 125-9	2.9	14
28	LOCALIZATION OF MICROCYSTIN SYNTHETASE GENES IN COLONIES OF THE CYANOBACTERIUM MICROCYSTIS USING FLUORESCENCE IN SITU HYBRIDIZATION(1). <i>Journal of Phycology</i> , <b>2009</b> , 45, 1400-4 <sup>3</sup>		13
27	Do vervets and macaques respond differently to BMAA?. <i>NeuroToxicology</i> , <b>2016</b> , 57, 310-311	4.4	13
26	A novel biosurfactant, 2-acyloxyethylphosphonate, isolated from waterblooms of <i>Aphanizomenon flos-aquae</i> . <i>Molecules</i> , <b>2006</b> , 11, 539-48	4.8	12
25	Legal and security requirements for the air transportation of cyanotoxins and toxigenic cyanobacterial cells for legitimate research and analytical purposes. <i>Toxicology Letters</i> , <b>2006</b> , 163, 85-90	4.4	10
24	Cyanobacterial toxins, exposure routes and human health		9
23	. <i>ScienceAsia</i> , <b>2006</b> , 32, 365	1.4	8
22	Cylindrospermopsin and Congeners <b>2017</b> , 127-137		6
21	Cyanotoxins and the Nervous System. <i>Toxins</i> , <b>2021</b> , 13,	4.9	5
20	Performance assessment of a cylindrospermopsin ELISA with purified compounds and cyanobacterial extracts. <i>Environmental Forensics</i> , <b>2017</b> , 18, 147-152	1.6	4
19	Plant-cyanobacteria interactions: Beneficial and harmful effects of cyanobacterial bioactive compounds on soil-plant systems and subsequent risk to animal and human health. <i>Phytochemistry</i> , <b>2021</b> , 192, 112959	4	4
18	Cyanotoxin Analysis and Amino Acid Profiles of Cyanobacterial Food Items from Chad. <i>Neurotoxicity Research</i> , <b>2021</b> , 39, 72-80	4.3	4
17	Necrotic enteritis in mute swans associated with cyanobacterial toxins. <i>Veterinary Record</i> , <b>2004</b> , 154, 575-6	0.9	4

16	Anatoxin-a, Homoanatoxin-a, and Natural Analogues <b>2017</b> , 138-147		3
15	$\beta$ -N-methylamino-l-alanine analysis in the brains of patients with Kii ALS/PDC. <i>Neurology</i> , <b>2017</b> , 89, 1091-1092		3
14	Early-earth nonprotein amino acid metabolites in modern cyanobacterial microbialites. <i>Environmental Chemistry Letters</i> , <b>2020</b> , 18, 467-473	13-3	3
13	Anatoxin-a(S) <b>2017</b> , 155-159		1
12	$\beta$ -N-Methylamino-l-Alanine and (S)-2,4-Diaminobutyric Acid <b>2017</b> , 160-164		1
11	Protein Phosphatase Inhibition Assays <b>2017</b> , 267-271		1
10	Bioassay Use in the Field of Toxic Cyanobacteria <b>2017</b> , 272-279		1
9	In Vivo and In Vitro Toxicity Testing of Cyanobacterial Toxins: A Mini-Review. <i>Reviews of Environmental Contamination and Toxicology</i> , <b>2021</b> , 258, 109-150	3-5	1
8	BMAA Neurotoxicity <b>2021</b> , 1-16		1
7	Harmful Algal and Cyanobacterial Harmful Algal Blooms in the Arabian Seas: Current Status, Implications, and Future Directions <b>2021</b> , 1083-1101		0
6	Determination of Cyanotoxins by High-Performance Liquid Chromatography with Fluorescence Derivatization <b>2017</b> , 212-217		
5	Immunoassays and Other Antibody Applications <b>2017</b> , 263-266		
4	Health and Safety During Sampling and in the Laboratory <b>2017</b> , 41-45		
3	Extraction of BMAA from Cyanobacteria <b>2017</b> , 432-434		
2	Analysis of $\beta$ -N-Methylamino-l-Alanine by UHPLC-MS/MS <b>2017</b> , 435-438		
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