

James Metcalf

List of Publications by Year in descending order

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96
papers

7,617
citations

47006

47
h-index

53230

85
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110
all docs

110
docs citations

110
times ranked

5054
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyanotoxin Analysis and Amino Acid Profiles of Cyanobacterial Food Items from Chad. Neurotoxicity Research, 2021, 39, 72-80.	2.7	7
2	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
3	Harmful Algal and Cyanobacterial Harmful Algal Blooms in the Arabian Seas: Current Status, Implications, and Future Directions. , 2021, , 1083-1101.		2
4	Desert Dust as a Vector for Cyanobacterial Toxins. , 2021, , 161-178.		1
5	BMAA Neurotoxicity. , 2021, , 1-16.		1
6	Cyanotoxins and the Nervous System. Toxins, 2021, 13, 660.	3.4	19
7	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
8	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
9	Early-earth nonprotein amino acid metabolites in modern cyanobacterial microbialites. Environmental Chemistry Letters, 2020, 18, 467-473.	16.2	4
10	Co-Occurrence of Cyanobacteria and Cyanotoxins with Other Environmental Health Hazards: Impacts and Implications. Toxins, 2020, 12, 629.	3.4	59
11	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
12	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
13	L-Serine: a Naturally-Occurring Amino Acid with Therapeutic Potential. Neurotoxicity Research, 2018, 33, 213-221.	2.7	65
14	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
15	Public health responses to toxic cyanobacterial blooms: perspectives from the 2016 Florida event. Water Policy, 2018, 20, 919-932.	1.5	27
16	Performance assessment of a cylindrospermopsin ELISA with purified compounds and cyanobacterial extracts. Environmental Forensics, 2017, 18, 147-152.	2.6	4
17	Traditional Food Items in Ogimi, Okinawa: L-Serine Content and the Potential for Neuroprotection. Current Nutrition Reports, 2017, 6, 24-31.	4.3	22
18	β-N-methylamino- L-alanine analysis in the brains of patients with Kii ALS/PDC. Neurology, 2017, 89, 1091-1092.	1.1	5

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19	Analysis of BMAA enantiomers in cycads, cyanobacteria, and mammals: in vivo formation and toxicity of d-BMAA. <i>Amino Acids</i> , 2017, 49, 1427-1439.	2.7	29
20	Phase I clinical trial of safety of L-serine for ALS patients. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2017, 18, 107-111.	1.7	57
21	Do vervets and macaques respond differently to BMAA?. <i>NeuroToxicology</i> , 2016, 57, 310-311.	3.0	15
22	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> , 2016, 283, 20152397.	2.6	176
23	Occurrence of microcystins in water, bloom, sediment and fish from a public water supply. <i>Science of the Total Environment</i> , 2016, 562, 860-868.	8.0	59
24	Cyanobacteria and cyanotoxins are present in drinking water impoundments and groundwater wells in desert environments. <i>Toxicon</i> , 2016, 114, 75-84.	1.6	41
25	Detection of Cyanotoxins, \hat{I}^2 -N-methylamino-L-alanine and Microcystins, from a Lake Surrounded by Cases of Amyotrophic Lateral Sclerosis. <i>Toxins</i> , 2015, 7, 322-336.	3.4	84
26	Grazing livestock are exposed to terrestrial cyanobacteria. <i>Veterinary Research</i> , 2015, 46, 16.	3.0	25
27	Desert crust microorganisms, their environment, and human health. <i>Journal of Arid Environments</i> , 2015, 112, 127-133.	2.4	60
28	The persistence of cyanobacterial toxins in desert soils. <i>Journal of Arid Environments</i> , 2015, 112, 134-139.	2.4	49
29	Neurotoxic amino acids and their isomers in desert environments. <i>Journal of Arid Environments</i> , 2015, 112, 140-144.	2.4	46
30	Cyanotoxins as a potential cause of dog poisonings in desert environments. <i>Veterinary Record</i> , 2014, 174, 484-485.	0.3	26
31	Detection of cyanobacterial neurotoxin \hat{I}^2 -N-methylamino-l-alanine within shellfish in the diet of an ALS patient in Florida. <i>Toxicon</i> , 2014, 90, 167-173.	1.6	59
32	Amino acid neurotoxins in feathers of the Lesser Flamingo, <i>Phoeniconaias minor</i> . <i>Chemosphere</i> , 2013, 90, 835-839.	8.2	31
33	Linking \hat{I}^2 -methylamino-l-alanine exposure to sporadic amyotrophic lateral sclerosis in Annapolis, MD. <i>Toxicon</i> , 2013, 70, 179-183.	1.6	69
34	Dietary BMAA Exposure in an Amyotrophic Lateral Sclerosis Cluster from Southern France. <i>PLoS ONE</i> , 2013, 8, e83406.	2.5	116
35	Evaluation of Enzyme-Linked Immunosorbent Assays (ELISAs) for the Determination of Microcystins in Cyanobacteria. <i>Environmental Forensics</i> , 2012, 13, 105-109.	2.6	17
36	Cyanotoxins. , 2012, , 651-675.		51

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37	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
38	Variation in the coverage of biological soil crusts in the State of Qatar. Journal of Arid Environments, 2012, 78, 187-190.	2.4	23
39	Cyanotoxins in desert environments may present a risk to human health. Science of the Total Environment, 2012, 421-422, 118-123.	8.0	109
40	Distinguishing the cyanobacterial neurotoxin β -N-methylamino-L-alanine (BMAA) from other diamino acids. Toxicon, 2011, 57, 730-738.	1.6	59
41	Nitrogen starvation of cyanobacteria results in the production of β -N-methylamino-L-alanine. Toxicon, 2011, 58, 187-194.	1.6	101
42	Distinguishing the cyanobacterial neurotoxin β -N-methylamino-L-alanine (BMAA) from its structural isomer 2,4-diaminobutyric acid (2,4-DAB). Toxicon, 2010, 56, 868-879.	1.6	63
43	Presence of the neurotoxic amino acids β -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
44	Analysis of dissolved microcystins in surface water samples from Kovada Lake, Turkey. Science of the Total Environment, 2009, 407, 4038-4046.	8.0	63
45	LOCALIZATION OF MICROCYSTIN SYNTHETASE GENES IN COLONIES OF THE CYANOBACTERIUM <i>MICROCYSTIS</i> USING FLUORESCENCE IN SITU HYBRIDIZATION. Journal of Phycology, 2009, 45, 1400-1404.	2.3	15
46	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
47	Toxicity of the cyanobacterial neurotoxin β -N-methylamino-L-alanine to three aquatic animal species. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 67-70.	2.1	40
48	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
49	Co-occurrence of β -N-methylamino-L-alanine, a neurotoxic amino acid with other cyanobacterial toxins in British waterbodies, 1990-2004. Environmental Microbiology, 2008, 10, 702-708.	3.8	229
50	Nodularin in feathers and liver of eiders (<i>Somateria mollissima</i>) caught from the western Gulf of Finland in June-September 2005. Harmful Algae, 2008, 7, 99-105.	4.8	22
51	Kinetics of the oxidation of cylindrospermopsin and anatoxin-a with chlorine, monochloramine and permanganate. Water Research, 2007, 41, 2048-2056.	11.3	95
52	Oxidative elimination of cyanotoxins: Comparison of ozone, chlorine, chlorine dioxide and permanganate. Water Research, 2007, 41, 3381-3393.	11.3	222
53	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
54	Microcystin analysis in single filaments of <i>Planktothrix</i> spp. in laboratory cultures and environmental blooms. Water Research, 2006, 40, 1583-1590.	11.3	48

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55	Production of antibodies against microcystin-RR for the assessment of purified microcystins and cyanobacterial environmental samples. <i>Toxicon</i> , 2006, 48, 295-306.	1.6	33
56	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> , 2006, 48, 995-1001.	1.6	49
57	A Novel Biosurfactant, 2-Acyloxyethylphosphonate, Isolated from Waterblooms of <i>Aphanizomenon flos-aquae</i> . <i>Molecules</i> , 2006, 11, 539-548.	3.8	14
58	First observation of cylindrospermopsin in <i>Anabaena lapponica</i> isolated from the boreal environment (Finland). <i>Environmental Toxicology</i> , 2006, 21, 552-560.	4.0	153
59	ANALYSIS OF NODULARIN-R IN EIDER (<i>SOMATERIA MOLLISSIMA</i>), ROACH (<i>RUTILUS RUTILUS L.</i>), AND FLOUNDER (<i>PLATICHTHYS FLESUS L.</i>) LIVER AND MUSCLE SAMPLES FROM THE WESTERN GULF OF FINLAND, NORTHERN BALTIC SEA. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 2834.	4.3	35
60	Analysis of the cyanotoxins anatoxin-a and microcystins in Lesser Flamingo feathers. <i>Toxicological and Environmental Chemistry</i> , 2006, 88, 159-167.	1.2	38
61	Title is missing!. <i>ScienceAsia</i> , 2006, 32, 365.	0.5	10
62	Leucine aminopeptidase M inhibitors, cyanostatin A and B, isolated from cyanobacterial water blooms in Scotland. <i>Phytochemistry</i> , 2005, 66, 543-548.	2.9	25
63	Cyanobacterial toxins: risk management for health protection. <i>Toxicology and Applied Pharmacology</i> , 2005, 203, 264-272.	2.8	964
64	Diverse taxa of cyanobacteria produce \hat{A} -N-methylamino-L-alanine, a neurotoxic amino acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5074-5078.	7.1	610
65	Immunogold localisation of microcystins in cryosectioned cells of <i>Microcystis</i> . <i>Journal of Structural Biology</i> , 2005, 151, 208-214.	2.8	91
66	Harmful Cyanobacteria. , 2005, , 1-23.		98
67	Cyanobacteria and cyanobacterial toxins in three alkaline Rift Valley lakes of Kenya–Lakes Bogoria, Nakuru and Elmenteita. <i>Journal of Plankton Research</i> , 2004, 26, 925-935.	1.8	152
68	Inhibition of plant protein synthesis by the cyanobacterial hepatotoxin, cylindrospermopsin. <i>FEMS Microbiology Letters</i> , 2004, 235, 125-129.	1.8	69
69	Interlaboratory comparison trial on cylindrospermopsin measurement. <i>Analytical Biochemistry</i> , 2004, 332, 280-284.	2.4	53
70	Accumulation and depuration of the cyanobacterial toxin cylindrospermopsin in the freshwater mussel <i>Anodonta cygnea</i> . <i>Toxicon</i> , 2004, 43, 185-194.	1.6	112
71	Necrotic enteritis in mute swans associated with cyanobacterial toxins. <i>Veterinary Record</i> , 2004, 154, 575-6.	0.3	4
72	Inhibition of plant protein synthesis by the cyanobacterial hepatotoxin, cylindrospermopsin. <i>FEMS Microbiology Letters</i> , 2004, 235, 125-129.	1.8	14

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73	Depth profiles of cyanobacterial hepatotoxins (microcystins) in three Turkish freshwater lakes. <i>Hydrobiologia</i> , 2003, 505, 89-95.	2.0	65
74	Contribution of hot spring cyanobacteria to the mysterious deaths of Lesser Flamingos at Lake Bogoria, Kenya. <i>FEMS Microbiology Ecology</i> , 2003, 43, 141-148.	2.7	248
75	Laboratory studies of dissolved radiolabelled microcystin-LR in lake water. <i>Water Research</i> , 2003, 37, 3299-3306.	11.3	60
76	Analysis of Cyanobacterial Toxins by Immunological Methods. <i>Chemical Research in Toxicology</i> , 2003, 16, 103-112.	3.3	79
77	Effects of Light on the Microcystin Content of <i>Microcystis</i> Strain PCC 7806. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1475-1481.	3.1	259
78	Susceptibility of flamingos to cyanobacterial toxins via feeding. <i>Veterinary Record</i> , 2003, 152, 722-3.	0.3	27
79	Toxicity of cylindrospermopsin to the brine shrimp <i>Artemia salina</i> : comparisons with protein synthesis inhibitors and microcystins. <i>Toxicon</i> , 2002, 40, 1115-1120.	1.6	90
80	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> , 2002, 60, 223-231.	4.0	154
81	An international intercomparison exercise for the determination of purified microcystin-LR and microcystins in cyanobacterial field material. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 437-444.	3.7	116
82	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> , 2002, 216, 159-164.	1.8	57
83	Cross-reactivity and performance assessment of four microcystin immunoassays with detoxication products of the cyanobacterial toxin, microcystin-LR. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2002, 51, 145-151.	1.4	29
84	Colorimetric Immuno-Protein Phosphatase Inhibition Assay for Specific Detection of Microcystins and Nodularins of Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 2001, 67, 904-909.	3.1	85
85	Losses of the cyanobacterial toxin microcystin-LR from aqueous solution by adsorption during laboratory manipulations. <i>Toxicon</i> , 2001, 39, 589-594.	1.6	63
86	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> , 2001, 35, 3508-3511.	11.3	64
87	Analysis of Cyanobacterial Toxins by Physicochemical and Biochemical Methods. <i>Journal of AOAC INTERNATIONAL</i> , 2001, 84, 1626-1635.	1.5	36
88	Analysis of cyanobacterial toxins by physicochemical and biochemical methods. <i>Journal of AOAC INTERNATIONAL</i> , 2001, 84, 1626-35.	1.5	20
89	Effects of physicochemical variables and cyanobacterial extracts on the immunoassay of microcystin-LR by two ELISA kits. <i>Journal of Applied Microbiology</i> , 2000, 89, 532-538.	3.1	52
90	Microwave oven and boiling waterbath extraction of hepatotoxins from cyanobacterial cells. <i>FEMS Microbiology Letters</i> , 2000, 184, 241-246.	1.8	71

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91	Immuno-crossreactivity and toxicity assessment of conjugation products of the cyanobacterial toxin, microcystin-LR. FEMS Microbiology Letters, 2000, 189, 155-158.	1.8	104
92	Microwave oven and boiling waterbath extraction of hepatotoxins from cyanobacterial cells. FEMS Microbiology Letters, 2000, 184, 241-246.	1.8	2
93	Immuno-crossreactivity and toxicity assessment of conjugation products of the cyanobacterial toxin, microcystin-LR. FEMS Microbiology Letters, 2000, 189, 155-158.	1.8	4
94	Cyanobacterial toxins, exposure routes and human health. European Journal of Phycology, 1999, 34, 405-415.	2.0	444
95	Retention of <i>Microcystis aeruginosa</i> and microcystin by salad lettuce (<i>Lactuca sativa</i>) after spray irrigation with water containing cyanobacteria. Toxicon, 1999, 37, 1181-1185.	1.6	153
96	Cyanobacterial toxins, exposure routes and human health. European Journal of Phycology, 1999, 34, 405-415.	2.0	9