Murray T Brown

List of Publications by Year
in descending order

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Version: 2024-02-01

93 papers	3,444 citations	136885 32 h-index	161767 54 g-index
94 all docs	94 docs citations	94 times ranked	3412 citing authors

#	Article	IF	Citations
1	ZINC TOLERANCE OF MYCORRHIZAL BETULA. New Phytologist, 1985, 99, 101-106.	3.5	175
2	Spatiotemporal Patterning of Reactive Oxygen Production and Ca2+ Wave Propagation in Fucus Rhizoid Cells. Plant Cell, 2002, 14, 2369-2381.	3.1	154
3	Ultraviolet radiation and cyanobacteria. Journal of Photochemistry and Photobiology B: Biology, 2014, 141, 154-169.	1.7	152
4	THE TOXICITY OF COPPER (II) SPECIES TO MARINE ALGAE, WITH PARTICULAR REFERENCE TO MACROALGAE. Journal of Phycology, 1997, 33, 2-11.	1.0	145
5	The interactive effects of the antifouling herbicides Irgarol 1051 and Diuron on the seagrass Zostera marina (L.). Aquatic Toxicology, 2004, 66, 293-305.	1.9	138
6	Impacts of anthropogenic stresses on the early development stages of seaweeds. Hydrobiologia, 2000, 7, 317-333.	1.0	106
7	Physiological responses of Ulva pertusa and U. armoricana to copper exposure. Aquatic Toxicology, 2008, 86, 176-184.	1.9	98
8	Solar PAR and UV radiation affects the physiology and morphology of the cyanobacterium Anabaena sp. PCC 7120. Journal of Photochemistry and Photobiology B: Biology, 2007, 89, 117-124.	1.7	94
9	Interâ€population differences in inherited copper tolerance involve photosynthetic adaptation and exclusion mechanisms in Fucus serratus. New Phytologist, 2003, 160, 157-165.	3.5	91
10	Trace metal concentrations in marine macroalgae from different biotopes in the Aegean Sea. Environment International, 2001, 27, 43-47.	4.8	88
11	Concentrations of phytochelatins and glutathione found in natural assemblages of seaweeds depend on species and metal concentrations of the habitat. Aquatic Toxicology, 2007, 83, 190-199.	1.9	80
12	Phenol toxicity to the aquatic macrophyte Lemna paucicostata. Aquatic Toxicology, 2012, 106-107, 182-188.	1.9	71
13	THE RELEASE OF COPPER-COMPLEXING LIGANDS BY THE BROWN ALGA FUCUS VESICULOSUS (PHAEOPHYCEAE) IN RESPONSE TO INCREASING TOTAL COPPER LEVELS. Journal of Phycology, 1999, 35, 501-509.	1.0	69
14	UV-B affects photosynthesis, ROS production and motility of the freshwater flagellate, Euglena agilis Carter. Aquatic Toxicology, 2012, 122-123, 206-213.	1.9	65
15	Copper, copper mine tailings and their effect on marine algae in Northern Chile. Journal of Applied Phycology, 1999, 11, 57-67.	1.5	64
16	Preliminary assessment of the seaweed Porphyra purpurea in artificial diets for thick-lipped grey mullet (Chelon labrosus). Aquaculture, 1997, 152, 249-258.	1.7	62
17	Interactions of silver nanoparticles with the marine macroalga, Ulva lactuca. Ecotoxicology, 2012, 21, 148-154.	1.1	61
18	Evaluating environmental contamination in Ria Formosa (Portugal) using stress indexes of Spartina maritima. Marine Environmental Research, 2000, 49, 67-78.	1.1	58

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19	Copper-induced intra-specific oxidative damage and antioxidant responses in strains of the brown alga Ectocarpus siliculosus with different pollution histories. Aquatic Toxicology, 2015, 159, 81-89.	1.9	57
20	Uptake of platinum group elements by the marine macroalga, Ulva lactuca. Marine Chemistry, 2007, 105, 271-280.	0.9	49
21	Spatial and temporal variations in the copper and zinc concentrations of two green seaweeds from Otago Harbour, New Zealand.. Marine Environmental Research, 1999, 47, 175-184.	1.1	48
22	A Simple and Effective Method for High Quality Co-Extraction of Genomic DNA and Total RNA from Low Biomass Ectocarpus siliculosus, the Model Brown Alga. PLoS ONE, 2014, 9, e96470.	1.1	48
23	Determinants of trace metal concentrations in marine organisms. , 1998, , 185-217.		48
24	Alginate content and composition ofMacrocystis pyrifera from New Zealand. Journal of Applied Phycology, 1992, 4, 357-369.	1.5	47
25	Accumulation of Cu and Zn from antifouling paint particles by the marine macroalga, Ulva lactuca. Environmental Pollution, 2009, 157, 2314-2319.	3.7	47
26	Copper excess detoxification is mediated by a coordinated and complementary induction of glutathione, phytochelatins and metallothioneins in the green seaweed Ulva compressa. Plant Physiology and Biochemistry, 2019, 135, 423-431.	2.8	47
27	Influence of salinity and humic substances on the uptake of trace metals by the marine macroalga, Ulva lactuca: Experimental observations and modelling using WHAM. Marine Chemistry, 2008, 110, 176-184.	0.9	41
28	Cadmium and/or copper excess induce interdependent metal accumulation, DNA methylation, induction of metal chelators and antioxidant defences in the seagrass Zostera marina. Chemosphere, 2019, 224, 111-119.	4.2	40
29	Physiological responses of Gracilariopsis longissima (S.G. Gmelin) Steentoft, L.M. Irvine and Farnham (Rhodophyceae) to sub-lethal copper concentrations. Aquatic Toxicology, 2003, 64, 201-213.	1.9	38
30	Toxicity of Synthetic Surfactants to the Marine Macroalga, Ulva lactuca. Water, Air, and Soil Pollution, 2011, 218, 283-291.	1.1	38
31	Novel use of field-portable-XRF for the direct analysis of trace elements in marine macroalgae. Environmental Pollution, 2017, 220, 228-233.	3.7	38
32	A modified toxicity testing method using tropical marine microalgae. Environmental Monitoring and Assessment, 2002, 75, 145-154.	1.3	33
33	Comparing the acute sensitivity of growth and photosynthetic endpoints in three Lemna species exposed to four herbicides. Environmental Pollution, 2017, 220, 818-827.	3.7	33
34	Variation in Patterns of Metal Accumulation in Thallus Parts of Lessonia trabeculata (Laminariales;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	33
35	Cellular responses of developingFucus serratusembryos exposed to elevated concentrations of Cu2+. Plant, Cell and Environment, 2003, 26, 1737-1747.	2.8	32
36	Intra-specific responses of Cymodocea nodosa to macro-nutrient, irradiance and copper exposure. Journal of Experimental Marine Biology and Ecology, 2015, 469, 113-122.	0.7	32

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37	In situ determination of trace elements in Fucus spp. by field-portable-XRF. Science of the Total Environment, 2017, 593-594, 227-235.	3.9	32
38	ZINC TOLERANCE IN BETULA. New Phytologist, 1985, 99, 91-100.	3.5	31
39	Response differences between Ectocarpus siliculosus populations to copper stress involve cellular exclusion and induction of the phytochelatin biosynthetic pathway. Aquatic Toxicology, 2015, 159, 167-175.	1.9	31
40	The sensitivity of an hydroponic lettuce root elongation bioassay to metals, phenol and wastewaters. Ecotoxicology and Environmental Safety, 2016, 126, 147-153.	2.9	30
41	The effects of a PSII inhibitor on phytoplankton community structure as assessed by HPLC pigment analyses, microscopy and flow cytometry. Aquatic Toxicology, 2005, 71, 25-38.	1.9	29
42	Arrested development in Fucus spiralis (Phaeophyceae) germlings exposed to copper. European Journal of Phycology, 1999, 34, 513-521.	0.9	27
43	Genotoxicity of organic pollutants in source of drinking water on microalga Euglena gracilis. Ecotoxicology, 2009, 18, 669-676.	1.1	26
44	Evaluating Aquatic Toxicity by Visual Inspection of Thallus Color in the Green MacroalgaUlva:Â Testing a Novel Bioassay. Environmental Science & Technology, 2007, 41, 3667-3671.	4.6	25
45	Influence of synthetic surfactants on the uptake of Pd, Cd and Pb by the marine macroalga, Ulva lactuca. Environmental Pollution, 2008, 156, 897-904.	3.7	25
46	Ecophysiological and metabolic responses to interactive exposure to nutrients and copper excess in the brown macroalga Cystoseira tamariscifolia. Marine Pollution Bulletin, 2018, 128, 214-222.	2.3	25
47	Accumulation of Cu and Zn in discarded antifouling paint particles by the marine gastropod, Littorina littorea. Estuarine, Coastal and Shelf Science, 2009, 84, 447-452.	0.9	24
48	Bioaccumulation of metals by Fucus ceranoides in estuaries of South West England. Marine Pollution Bulletin, 2011, 62, 2557-2562.	2.3	24
49	Phaeoviruses discovered in kelp (Laminariales). ISME Journal, 2017, 11, 2869-2873.	4.4	24
50	Processing of antifouling paint particles by Mytilus edulis. Environmental Pollution, 2009, 157, 215-220.	3.7	23
51	Application of field-portable-XRF for the determination of trace elements in deciduous leaves from a mine-impacted region. Chemosphere, 2018, 209, 928-934.	4.2	23
52	Comparison of techniques for the removal of particulate material from seaweed tissue. Marine Environmental Research, 1998, 45, 295-307.	1.1	22
53	A novel bioassay using root re-growth in Lemna. Aquatic Toxicology, 2013, 140-141, 415-424.	1.9	22
54	The involvement of epiphytic bacteria in zinc concentration by the red alga Gracilaria sordida. Marine Environmental Research, 1991, 31, 55-67.	1.1	21

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55	A novel field transplantation technique reveals intra-specific metal-induced oxidative responses in strains of Ectocarpus siliculosus with different pollution histories. Environmental Pollution, 2015, 199, 130-138.	3.7	21
56	Accumulation of Aqueous and Nanoparticulate Silver by the Marine Gastropod Littorina littorea. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	20
57	Spore release by the green alga Ulva: A quantitative assay to evaluate aquatic toxicants. Environmental Pollution, 2008, 153, 699-705.	3.7	19
58	Implications of rising temperatures for gametophyte performance of two kelp species from Arctic waters. Botanica Marina, 2017, 60, 39-48.	0.6	19
59	Cymodocea nodosa metrics as bioindicators of anthropogenic stress in N. Aegean, Greek coastal waters. Ecological Indicators, 2016, 63, 61-70.	2.6	18
60	Influence of salinity on metal toxicity to Ulva pertusa. Toxicology and Environmental Health Sciences, 2012, 4, 9-13.	1.1	16
61	MAPK Pathway under Chronic Copper Excess in Green Macroalgae (Chlorophyta): Involvement in the Regulation of Detoxification Mechanisms. International Journal of Molecular Sciences, 2019, 20, 4546.	1.8	16
62	Growth and reproduction ofPorphyra columbina Mont. (Bangiales, Rhodophyceae) from southern New Zealand. Journal of Applied Phycology, 1990, 2, 35-44.	1.5	15
63	Cellular responses to elevated light levels inFucus spiralisembryos during the first days after fertilization. Plant, Cell and Environment, 2001, 24, 801-810.	2.8	15
64	Toxicity of the amphoteric surfactant, cocamidopropyl betaine, to the marine macroalga, Ulva lactuca. Ecotoxicology, 2011, 20, 202-207.	1.1	15
65	Extra- and intra-cellular accumulation of platinum group elements by the marine microalga, Chlorella stigmatophora. Water Research, 2014, 50, 432-440.	5.3	15
66	Macrocystis pyrifera in New Zealand: testing two mathematical models for whole plant growth. Journal of Applied Phycology, 1990, 2, 249-257.	1.5	14
67	A Novel Evolutionary Strategy Revealed in the Phaeoviruses. PLoS ONE, 2014, 9, e86040.	1.1	14
68	MAPK Pathway under Chronic Copper Excess in Green Macroalgae (Chlorophyta): Influence on Metal Exclusion/Extrusion Mechanisms and Photosynthesis. International Journal of Molecular Sciences, 2019, 20, 4547.	1.8	14
69	Reappraisal of the toxicity test method using the green alga Ulva pertusa Kjellman (Chlorophyta). Journal of Hazardous Materials, 2019, 369, 763-769.	6.5	14
70	Photosynthetic Responses of Turfâ€forming Red Macroalgae to High <scp>CO</scp>₂ Conditions. Journal of Phycology, 2020, 56, 85-96.	1.0	14
71	Comparison of three techniques for identifying isomorphic phases of Chondrus crispus (Gigartinaceae). Journal of Applied Phycology, 2004, 16, 447-450.	1.5	13
72	Prior exposure to Cu contamination influences the outcome of toxicological testing of Fucus serratus embryos. Marine Pollution Bulletin, 2005, 50, 1675-1680.	2.3	13

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73	Comparative assessment of single and joint effects of diuron and Irgarol 1051 on Arctic and temperate microalgae using chlorophyll a fluorescence imaging. Ecological Indicators, 2017, 76, 304-316.	2.6	13
74	Interlaboratory Validation of Toxicity Testing Using the Duckweed Lemna minor Root-Regrowth Test. Biology, 2022, 11, 37.	1.3	13
75	Inter-population comparisons of copper resistance and accumulation in the red seaweed, Gracilariopsis longissima. Ecotoxicology, 2012, 21, 591-600.	1.1	12
76	Enzymatic antioxidant defences are transcriptionally regulated in Es524, a copper-tolerant strain of Ectocarpus siliculosus (Ectocarpales, Phaeophyceae). Phycologia, 2015, 54, 425-429.	0.6	12
77	Phaeoviral Infections Are Present in Macrocystis, Ecklonia and Undaria (Laminariales) and Are Influenced by Wave Exposure in Ectocarpales. Viruses, 2018, 10, 410.	1.5	12
78	Cesium-137 concentrations in marine macroalgae from different biotopes in the Aegean Sea (Greece). Ecotoxicology and Environmental Safety, 2003, 54, 249-254.	2.9	11
79	Aquatic toxicity tests ofUlva pertusaKjellman (Ulvales, Chlorophyta) using spore germination and gametophyte growth. European Journal of Phycology, 2009, 44, 357-363.	0.9	11
80	Sensitivity of spore germination and germ tube elongation of Saccharina japonica to metal exposure. Ecotoxicology, 2011, 20, 2056-2068.	1.1	11
81	Toxicity tests using the kelp Undaria pinnatifida for heavy metal risk assessment. Toxicology and Environmental Health Sciences, 2016, 8, 86-95.	1.1	11
82	Application of the Ulva pertusa bioassay for a toxicity identification evaluation and reduction of effluent from a wastewater treatment plant. Frontiers in Environmental Science, 2015, 3, .	1.5	10
83	Commercial Potential of the Cyanobacterium Arthrospira maxima: Physiological and Biochemical Traits and the Purification of Phycocyanin. Biology, 2022, 11, 628.	1.3	10
84	Metal accumulation kinetics by the estuarine macroalga, FucusÂceranoides. Estuarine, Coastal and Shelf Science, 2013, 128, 33-40.	0.9	9
85	Antarctic intertidal macroalgae under predicted increased temperatures mediated by global climate change: Would they cope?. Science of the Total Environment, 2020, 740, 140379.	3.9	9
86	Tolerance of Impatiens balsamina L., and Crotalaria retusa L. to grow on soil contaminated by used lubricating oil: A comparative study. Ecotoxicology and Environmental Safety, 2020, 188, 109911.	2.9	6
87	Mass distribution in the fronds of macrocystis pyrifera from New Zealand and California. Hydrobiologia, 1993, 260-261, 57-65.	1.0	5
88	Comparative phytoremediation potentials of Impatiens balsamina L. and Crotalaria retusa L. for soil contaminated with used lubricating oil. Environmental Advances, 2021, 5, 100095.	2.2	4
89	Mass distribution in the fronds of macrocystis pyrifera from New Zealand and California. , 1993, , 57-65.		4
90	Copper, copper mine tailings and their effect on marine algae in Northern Chile. , 1999, , 571-581.		3

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91	Accumulation of silver by Fucus spp. (Phaeophyceae) and its toxicity to Fucus ceranoides under different salinity regimes. Ecotoxicology, 2015, 24, 1250-1258.	1.1	3
92	Toxicity testing using the marine macroalga Ulva pertusa. , 2018, , 119-142.		3
93	Toxicity testing of cosmetic ingredients using gametophyte beads of the brown alga Undaria pinnatifida (Laminariales, Phaeophyta). Journal of Applied Phycology, 2019, 31, 2011-2023.	1.5	3