

Gary S Caldwell

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,244
citations

185998

28
h-index

233125

45
g-index

69
all docs

69
docs citations

69
times ranked

2766
citing authors

#	ARTICLE	IF	CITATIONS
1	Eutrophication and warming-driven green tides (<i>Ulva rigida</i>) are predicted to increase under future climate change scenarios. <i>Marine Pollution Bulletin</i> , 2017, 114, 439-447.	2.3	138
2	The Relevance of Marine Chemical Ecology to Plankton and Ecosystem Function: An Emerging Field. <i>Marine Drugs</i> , 2011, 9, 1625-1648.	2.2	106
3	Ocean acidification induces multi-generational decline in copepod naupliar production with possible conflict for reproductive resource allocation. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 418-419, 30-36.	0.7	105
4	The Influence of Bioactive Oxylipins from Marine Diatoms on Invertebrate Reproduction and Development. <i>Marine Drugs</i> , 2009, 7, 367-400.	2.2	104
5	Development of a foam flotation system for harvesting microalgae biomass. <i>Algal Research</i> , 2013, 2, 135-144.	2.4	93
6	Harvesting microalgae by CTAB-aided foam flotation increases lipid recovery and improves fatty acid methyl ester characteristics. <i>Biomass and Bioenergy</i> , 2014, 67, 354-362.	2.9	90
7	Inhibition of embryonic development and fertilization in broadcast spawning marine invertebrates by water soluble diatom extracts and the diatom toxin 2-trans,4-trans decadienal. <i>Aquatic Toxicology</i> , 2002, 60, 123-137.	1.9	78
8	The use of a brine shrimp (<i>Artemia salina</i>) bioassay to assess the toxicity of diatom extracts and short chain aldehydes. <i>Toxicol</i> , 2003, 42, 301-306.	0.8	73
9	Colloquium on diatom-copepod interactions. <i>Marine Ecology - Progress Series</i> , 2005, 286, 293-305.	0.9	68
10	<i>Ulva rigida</i> in the future ocean: potential for carbon capture, bioremediation and biomethane production. <i>GCB Bioenergy</i> , 2018, 10, 39-51.	2.5	64
11	Effects of ocean warming and acidification, combined with nutrient enrichment, on chemical composition and functional properties of <i>Ulva rigida</i> . <i>Food Chemistry</i> , 2018, 258, 71-78.	4.2	60
12	Continuous harvesting of microalgae biomass using foam flotation. <i>Algal Research</i> , 2018, 36, 125-138.	2.4	52
13	Ocean acidification takes sperm back in time. <i>Invertebrate Reproduction and Development</i> , 2011, 55, 217-221.	0.3	50
14	Treatment with Algae Extracts Promotes Flocculation, and Enhances Growth and Neutral Lipid Content in <i>Nannochloropsis oculata</i> —a Candidate for Biofuel Production. <i>Marine Biotechnology</i> , 2012, 14, 774-781.	1.1	49
15	The steady state anaerobic digestion of <i>Laminaria hyperborea</i> — Effect of hydraulic residence on biogas production and bacterial community composition. <i>Bioresource Technology</i> , 2013, 143, 221-230.	4.8	49
16	The effect of bubble size on the efficiency and economics of harvesting microalgae by foam flotation. <i>Journal of Applied Phycology</i> , 2015, 27, 733-742.	1.5	44
17	Assessing the impact of diclofenac, ibuprofen and sildenafil citrate (Viagra®) on the fertilisation biology of broadcast spawning marine invertebrates. <i>Marine Environmental Research</i> , 2017, 127, 126-136.	1.1	42
18	First evidence of sperm motility inhibition by the diatom aldehyde 2E,4E-decadienal. <i>Marine Ecology - Progress Series</i> , 2004, 273, 97-108.	0.9	41

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19	Algae to Energy: Engine Performance Using Raw Algal Oil. <i>Energy Procedia</i> , 2014, 61, 656-659.	1.8	38
20	Profiling bacterial communities associated with sediment-based aquaculture bioremediation systems under contrasting redox regimes. <i>Scientific Reports</i> , 2016, 6, 38850.	1.6	38
21	Reproductive sterility increases the capacity to exploit the green seaweed <i>Ulva rigida</i> for commercial applications. <i>Algal Research</i> , 2017, 24, 64-71.	2.4	37
22	Integrative assessment of low-dose gamma radiation effects on <i>Daphnia magna</i> reproduction: Toxicity pathway assembly and AOP development. <i>Science of the Total Environment</i> , 2020, 705, 135912.	3.9	36
23	Response of Copepods to Elevated pCO ₂ and Environmental Copper as Co-Stressors – A Multigenerational Study. <i>PLoS ONE</i> , 2013, 8, e71257.	1.1	35
24	Short-term impacts of polyunsaturated aldehyde-producing diatoms on the harpacticoid copepod, <i>Tisbe holothuriae</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 341, 60-69.	0.7	34
25	Anthropogenic noise compromises the anti-predator behaviour of the European seabass, <i>Dicentrarchus labrax</i> (L.). <i>Marine Pollution Bulletin</i> , 2017, 122, 297-305.	2.3	34
26	Anaerobic co-digestion of microalgae <i>Chlorella vulgaris</i> and potato processing waste: Effect of mixing ratio, waste type and substrate to inoculum ratio. <i>Biochemical Engineering Journal</i> , 2019, 143, 91-100.	1.8	32
27	A value chain analysis of Malaysia's seaweed industry. <i>Journal of Applied Phycology</i> , 2020, 32, 2161-2171.	1.5	32
28	Intrinsic and extrinsic control of reproduction in the green tide-forming alga, <i>Ulva rigida</i> . <i>Environmental and Experimental Botany</i> , 2017, 139, 14-22.	2.0	31
29	Exposure to copper and a cytotoxic polyunsaturated aldehyde induces reproductive failure in the marine polychaete <i>Nereis virens</i> (Sars). <i>Aquatic Toxicology</i> , 2011, 104, 126-134.	1.9	30
30	2,4-Decadienal: Exploring a novel approach for the control of polychaete pests on cultured abalone. <i>Aquaculture</i> , 2010, 310, 52-60.	1.7	29
31	The effect of resource quality on the growth of <i>Holothuria scabra</i> during aquaculture waste bioremediation. <i>Aquaculture</i> , 2019, 499, 101-108.	1.7	29
32	Immobilising Microalgae and Cyanobacteria as Biocomposites: New Opportunities to Intensify Algae Biotechnology and Bioprocessing. <i>Energies</i> , 2021, 14, 2566.	1.6	29
33	Loofah-based microalgae and cyanobacteria biocomposites for intensifying carbon dioxide capture. <i>Journal of CO₂ Utilization</i> , 2020, 42, 101348.	3.3	28
34	Structural characterisation of the N-glycan moiety of the barnacle settlement-inducing protein complex (SIPC). <i>Journal of Experimental Biology</i> , 2012, 215, 1192-1198.	0.8	27
35	Is a cooperative approach to seaweed farming effectual? An analysis of the seaweed cluster project (SCP), Malaysia. <i>Journal of Applied Phycology</i> , 2017, 29, 2323-2337.	1.5	26
36	Redox stratification drives enhanced growth in a deposit-feeding invertebrate: implications for aquaculture bioremediation. <i>Aquaculture Environment Interactions</i> , 2015, 8, 1-13.	0.7	26

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37	Exposure to 2,4-decadienal negatively impacts upon marine invertebrate larval fitness. <i>Marine Environmental Research</i> , 2005, 59, 405-417.	1.1	23
38	Proteomic-based biotyping reveals hidden diversity within a microalgae culture collection: An example using <i>Dunaliella</i> . <i>Scientific Reports</i> , 2015, 5, 10036.	1.6	23
39	MALDI-TOF Mass Spectrometry Discriminates Known Species and Marine Environmental Isolates of <i>Pseudoalteromonas</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 104.	1.5	23
40	Effects of a bioactive diatom-derived aldehyde on developmental stability in <i>Nereis virens</i> (Sars) larvae: an analysis using fluctuating asymmetry. <i>Journal of Experimental Marine Biology and Ecology</i> , 2004, 304, 1-16.	0.7	19
41	Toxicity of algal-derived aldehydes to two invertebrate species: Do heavy metal pollutants have a synergistic effect?. <i>Aquatic Toxicology</i> , 2005, 74, 20-31.	1.9	19
42	Semi-continuous anaerobic co-digestion of marine microalgae with potato processing waste for methane production. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102917.	3.3	19
43	How to assess toxin ingestion and post-ingestion partitioning in zooplankton?. <i>Journal of Plankton Research</i> , 2004, 26, 1369-1377.	0.8	18
44	Influence of Pile Driving on the Clearance Rate of the Blue Mussel, <i>Mytilus edulis</i> (L.). <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	18
45	Sperm motility and fertilisation success in an acidified and hypoxic environment. <i>ICES Journal of Marine Science</i> , 2016, 73, 783-790.	1.2	17
46	Marine Glycobiology: Current Status and Future Perspectives. <i>Marine Biotechnology</i> , 2010, 12, 241-252.	1.1	15
47	A Microalgae Biocomposite-Integrated Spinning Disk Bioreactor (SDBR): Toward a Scalable Engineering Approach for Bioprocess Intensification in Light-Driven CO ₂ Absorption Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5936-5949.	1.8	15
48	Foam flotation can remove and eradicate ciliates contaminating algae culture systems. <i>Algal Research</i> , 2018, 29, 337-342.	2.4	14
49	Laboratory culture and evaluation of the tubeworm <i>Ficopomatus enigmaticus</i> for biofouling studies. <i>Biofouling</i> , 2013, 29, 869-878.	0.8	13
50	Textile-based cyanobacteria biocomposites for potential environmental remediation applications. <i>Journal of Applied Phycology</i> , 2021, 33, 1525-1540.	1.5	13
51	Fatty acids and oxylipins as semiochemicals. , 2009, , 65-92.		11
52	Carbon amendment stimulates benthic nitrogen cycling during the bioremediation of particulate aquaculture waste. <i>Biogeosciences</i> , 2018, 15, 1863-1878.	1.3	11
53	The venoms of the lesser (<i>Echiichthys vipera</i>) and greater (<i>Trachinus draco</i>) weever fish – A review. <i>Toxicon</i> : X, 2020, 6, 100025.	1.2	11
54	Visualisation of the copepod female reproductive system using confocal laser scanning microscopy and two-photon microscopy. <i>Journal of Crustacean Biology</i> , 2012, 32, 685-692.	0.3	10

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55	Non-cryogenic preservation of thalli, germlings, and gametes of the green seaweed <i>Ulva rigida</i> . <i>Aquaculture</i> , 2017, 473, 246-250.	1.7	9
56	Equistatin and equinatoxin gene expression is influenced by environmental temperature in the sea anemone <i>Actinia equina</i> . <i>Toxicon</i> , 2018, 153, 12-16.	0.8	9
57	The harpacticoid copepod <i>Tisbe holothuriae</i> is resistant to the insidious effects of polyunsaturated aldehyde-producing diatoms. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 413, 30-37.	0.7	8
58	Renewable energy: evaluation of low energy demand pre-treatments to optimise methane production from microalgae. <i>IET Renewable Power Generation</i> , 2019, 13, 1701-1710.	1.7	8
59	Trophic upgrading of long-chain polyunsaturated fatty acids by polychaetes: a stable isotope approach using <i>Alitta virens</i> . <i>Marine Biology</i> , 2021, 168, 1.	0.7	8
60	Living textile biocomposites deliver enhanced carbon dioxide capture. <i>Journal of Industrial Textiles</i> , 2022, 51, 5683S-5707S.	1.1	6
61	Techno-economic analysis of living biocomposites for carbon capture from breweries. <i>Algal Research</i> , 2022, 66, 102781.	2.4	6
62	Computational Assessment of the Fluid Flow around Coasting Mature Male Blue Sharks, <i>Prionace glauca</i> (L.). <i>Journal of Marine Biology</i> , 2009, 2009, 1-11.	1.0	5
63	Co-digestion of microalgae with potato processing waste and glycerol: effect of glycerol addition on methane production and the microbial community. <i>RSC Advances</i> , 2020, 10, 37391-37408.	1.7	4
64	Tissue and spine regeneration in the temperate sea urchin <i>Psammechinus miliaris</i> . <i>Invertebrate Reproduction and Development</i> , 2017, 61, 90-96.	0.3	3
65	Diatom-Derived Polyunsaturated Aldehydes Are Unlikely to Influence the Microbiota Composition of Laboratory-Cultured Diatoms. <i>Life</i> , 2020, 10, 29.	1.1	3
66	Clay 3D printing as a bio-design research tool: development of photosynthetic living building components. <i>Architectural Science Review</i> , 2022, 65, 185-195.	1.1	3
67	Continuous foam flotation harvesting with enhanced drainage: Overcoming the recovery-enrichment paradox. <i>Algal Research</i> , 2021, 54, 102203.	2.4	2
68	Lesser weever fish (<i>Echiichthys vipera</i> Cuvier, 1829) venom is cardiotoxic but not haemorrhagic. <i>Toxicon</i> , 2021, 194, 63-69.	0.8	1
69	Sperm activation in acorn barnacles by elevation of seawater pH. <i>Invertebrate Reproduction and Development</i> , 2012, 56, 79-85.	0.3	0