

# Gary S Caldwell

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/328999/gary-s-caldwell-publications-by-citations.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 papers	1,712 citations	24 h-index	39 g-index
69 ext. papers	1,973 ext. citations	3.9 avg, IF	5.18 L-index

#	Paper	IF	Citations
68	The influence of bioactive oxylipins from marine diatoms on invertebrate reproduction and development. <i>Marine Drugs</i> , <b>2009</b> , 7, 367-400	6	99
67	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> , <b>2012</b> , 418-419, 30-36	2.1	93
66	The relevance of marine chemical ecology to plankton and ecosystem function: an emerging field. <i>Marine Drugs</i> , <b>2011</b> , 9, 1625-48	6	88
65	Eutrophication and warming-driven green tides ( <i>Ulva rigida</i> ) are predicted to increase under future climate change scenarios. <i>Marine Pollution Bulletin</i> , <b>2017</b> , 114, 439-447	6.7	86
64	Development of a foam flotation system for harvesting microalgae biomass. <i>Algal Research</i> , <b>2013</b> , 2, 135-144	5	82
63	Harvesting microalgae by CTAB-aided foam flotation increases lipid recovery and improves fatty acid methyl ester characteristics. <i>Biomass and Bioenergy</i> , <b>2014</b> , 67, 354-362	5.3	75
62	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> , <b>2002</b> , 60, 123-37	5.1	75
61	The use of a brine shrimp ( <i>Artemia salina</i> ) bioassay to assess the toxicity of diatom extracts and short chain aldehydes. <i>Toxicon</i> , <b>2003</b> , 42, 301-6	2.8	65
60	Colloquium on diatom-copepod interactions. <i>Marine Ecology - Progress Series</i> , <b>2005</b> , 286, 293-305	2.6	53
59	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> , <b>2012</b> , 14, 774-81	3.4	45
58	Ocean acidification takes sperm back in time. <i>Invertebrate Reproduction and Development</i> , <b>2011</b> , 55, 217-221	2.7	45
57	<i>Ulva rigida</i> in the future ocean: potential for carbon capture, bioremediation and biomethane production. <i>GCB Bioenergy</i> , <b>2018</b> , 10, 39-51	5.6	44
56	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> , <b>2013</b> , 143, 221-30	11	39
55	Continuous harvesting of microalgae biomass using foam flotation. <i>Algal Research</i> , <b>2018</b> , 36, 125-138	5	39
54	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> , <b>2018</b> , 258, 71-78	8.5	37
53	First evidence of sperm motility inhibition by the diatom aldehyde 2E,4E-decadienal. <i>Marine Ecology - Progress Series</i> , <b>2004</b> , 273, 97-108	2.6	37
52	The effect of bubble size on the efficiency and economics of harvesting microalgae by foam flotation. <i>Journal of Applied Phycology</i> , <b>2015</b> , 27, 733-742	3.2	36

51	Algae to Energy: Engine Performance Using Raw Algal Oil. <i>Energy Procedia</i> , <b>2014</b> , 61, 656-659	2.3	36
50	Assessing the impact of diclofenac, ibuprofen and sildenafil citrate (Viagra) on the fertilisation biology of broadcast spawning marine invertebrates. <i>Marine Environmental Research</i> , <b>2017</b> , 127, 126-136	3.3	31
49	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> , <b>2007</b> , 341, 60-69	2.1	30
48	Response of copepods to elevated pCO <sub>2</sub> and environmental copper as co-stressors--a multigenerational study. <i>PLoS ONE</i> , <b>2013</b> , 8, e71257	3.7	29
47	Exposure to copper and a cytotoxic polyunsaturated aldehyde induces reproductive failure in the marine polychaete <i>Nereis virens</i> (Sars). <i>Aquatic Toxicology</i> , <b>2011</b> , 104, 126-34	5.1	27
46	Profiling bacterial communities associated with sediment-based aquaculture bioremediation systems under contrasting redox regimes. <i>Scientific Reports</i> , <b>2016</b> , 6, 38850	4.9	26
45	Reproductive sterility increases the capacity to exploit the green seaweed <i>Ulva rigida</i> for commercial applications. <i>Algal Research</i> , <b>2017</b> , 24, 64-71	5	24
44	2,4-Decadienal: Exploring a novel approach for the control of polychaete pests on cultured abalone. <i>Aquaculture</i> , <b>2010</b> , 310, 52-60	4.4	24
43	Structural characterisation of the N-glycan moiety of the barnacle settlement-inducing protein complex (SIPC). <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 1192-8	3	24
42	Intrinsic and extrinsic control of reproduction in the green tide-forming alga, <i>Ulva rigida</i> . <i>Environmental and Experimental Botany</i> , <b>2017</b> , 139, 14-22	5.9	22
41	Anthropogenic noise compromises the anti-predator behaviour of the European seabass, <i>Dicentrarchus labrax</i> (L.). <i>Marine Pollution Bulletin</i> , <b>2017</b> , 122, 297-305	6.7	22
40	Is a cooperative approach to seaweed farming effectual? An analysis of the seaweed cluster project (SCP), Malaysia. <i>Journal of Applied Phycology</i> , <b>2017</b> , 29, 2323-2337	3.2	21
39	Exposure to 2,4-decadienal negatively impacts upon marine invertebrate larval fitness. <i>Marine Environmental Research</i> , <b>2005</b> , 59, 405-17	3.3	21
38	Redox stratification drives enhanced growth in a deposit-feeding invertebrate: implications for aquaculture bioremediation. <i>Aquaculture Environment Interactions</i> , <b>2015</b> , 8, 1-13	2.9	20
37	Toxicity of algal-derived aldehydes to two invertebrate species: do heavy metal pollutants have a synergistic effect?. <i>Aquatic Toxicology</i> , <b>2005</b> , 74, 20-31	5.1	18
36	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> , <b>2004</b> , 304, 1-16	2.1	18
35	The effect of resource quality on the growth of <i>Holothuria scabra</i> during aquaculture waste bioremediation. <i>Aquaculture</i> , <b>2019</b> , 499, 101-108	4.4	18
34	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> , <b>2019</b> , 143, 91-100	4.2	18

33	Proteomic-based biotyping reveals hidden diversity within a microalgae culture collection: An example using <i>Dunaliella</i> . <i>Scientific Reports</i> , <b>2015</b> , 5, 10036	4.9	16
32	How to assess toxin ingestion and post-ingestion partitioning in zooplankton?. <i>Journal of Plankton Research</i> , <b>2004</b> , 26, 1369-1377	2.2	16
31	MALDI-TOF Mass Spectrometry Discriminates Known Species and Marine Environmental Isolates of <i>Pseudoalteromonas</i> . <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 104	5.7	16
30	A value chain analysis of Malaysia's seaweed industry. <i>Journal of Applied Phycology</i> , <b>2020</b> , 32, 2161-2171	3.2	15
29	Sperm motility and fertilisation success in an acidified and hypoxic environment. <i>ICES Journal of Marine Science</i> , <b>2016</b> , 73, 783-790	2.7	14
28	Foam flotation can remove and eradicate ciliates contaminating algae culture systems. <i>Algal Research</i> , <b>2018</b> , 29, 337-342	5	14
27	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> , <b>2020</b> , 705, 135912	10.2	14
26	Semi-continuous anaerobic co-digestion of marine microalgae with potato processing waste for methane production. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 102917	6.8	13
25	Marine glycobiology: current status and future perspectives. <i>Marine Biotechnology</i> , <b>2010</b> , 12, 241-52	3.4	13
24	Laboratory culture and evaluation of the tubeworm <i>Ficopomatus enigmaticus</i> for biofouling studies. <i>Biofouling</i> , <b>2013</b> , 29, 869-78	3.3	10
23	Loofah-based microalgae and cyanobacteria biocomposites for intensifying carbon dioxide capture. <i>Journal of CO2 Utilization</i> , <b>2020</b> , 42, 101348	7.6	9
22	Equistatin and equinatoxin gene expression is influenced by environmental temperature in the sea anemone <i>Actinia equina</i> . <i>Toxicon</i> , <b>2018</b> , 153, 12-16	2.8	9
21	A Microalgae Biocomposite-Integrated Spinning Disk Bioreactor (SDBR): Toward a Scalable Engineering Approach for Bioprocess Intensification in Light-Driven CO2 Absorption Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 5936-5949	3.9	8
20	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> , <b>2012</b> , 413, 30-37	2.1	8
19	Carbon amendment stimulates benthic nitrogen cycling during the bioremediation of particulate aquaculture waste. <i>Biogeosciences</i> , <b>2018</b> , 15, 1863-1878	4.6	8
18	Non-cryogenic preservation of thalli, germlings, and gametes of the green seaweed <i>Ulva rigida</i> . <i>Aquaculture</i> , <b>2017</b> , 473, 246-250	4.4	7
17	Visualisation of the copepod female reproductive system using confocal laser scanning microscopy and two-photon microscopy. <i>Journal of Crustacean Biology</i> , <b>2012</b> , 32, 685-692	0.8	7
16	Fatty acids and oxylipins as semiochemicals <b>2009</b> , 65-92		7

15	Immobilising Microalgae and Cyanobacteria as Biocomposites: New Opportunities to Intensify Algae Biotechnology and Bioprocessing. <i>Energies</i> , <b>2021</b> , 14, 2566	3.1	6
14	Influence of Pile Driving on the Clearance Rate of the Blue Mussel, <i>Mytilus edulis</i> (L.) <b>2016</b> ,		6
13	Textile-based cyanobacteria biocomposites for potential environmental remediation applications. <i>Journal of Applied Phycology</i> , <b>2021</b> , 33, 1525-1540	3.2	5
12	The venoms of the lesser () and greater () weever fish- A review. <i>Toxicon: X</i> , <b>2020</b> , 6, 100025	2.6	4
11	Renewable energy: evaluation of low energy demand pre-treatments to optimise methane production from microalgae. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 1701-1710	2.9	4
10	Computational Assessment of the Fluid Flow around Coasting Mature Male Blue Sharks, <i>Prionace glauca</i> (L.). <i>Journal of Marine Biology</i> , <b>2009</b> , 2009, 1-11	1	4
9	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> , <b>2020</b> , 10, 37391-37408	3.7	2
8	Diatom-Derived Polyunsaturated Aldehydes Are Unlikely to Influence the Microbiota Composition of Laboratory-Cultured Diatoms. <i>Life</i> , <b>2020</b> , 10,	3	2
7	Trophic upgrading of long-chain polyunsaturated fatty acids by polychaetes: a stable isotope approach using <i>Alitta virens</i> . <i>Marine Biology</i> , <b>2021</b> , 168, 1	2.5	2
6	Tissue and spine regeneration in the temperate sea urchin <i>Psammechinus miliaris</i> . <i>Invertebrate Reproduction and Development</i> , <b>2017</b> , 61, 90-96	0.7	1
5	Continuous foam flotation harvesting with enhanced drainage: Overcoming the recovery-enrichment paradox. <i>Algal Research</i> , <b>2021</b> , 54, 102203	5	1
4	Living textile biocomposites deliver enhanced carbon dioxide capture. <i>Journal of Industrial Textiles</i> , <b>2021</b> , 52, 10257	152808372110257	
3	Clay 3D printing as a bio-design research tool: development of photosynthetic living building components. <i>Architectural Science Review</i> , <b>2021</b> , 1-11	2.6	1
2	Sperm activation in acorn barnacles by elevation of seawater pH. <i>Invertebrate Reproduction and Development</i> , <b>2012</b> , 56, 79-85	0.7	
1	Lesser weever fish ( <i>Echiichthys vipera</i> Cuvier, 1829) venom is cardiotoxic but not haemorrhagic. <i>Toxicon</i> , <b>2021</b> , 194, 63-69	2.8	