

Carole Anne Llewellyn

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

3,994
citations

201674

27
h-index

128289

60
g-index

68
all docs

68
docs citations

68
times ranked

4510
citing authors

#	ARTICLE	IF	CITATIONS
1	The rapid determination of algal chlorophyll and carotenoid pigments and their breakdown products in natural waters by reverse-phase high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 1983, 151, 297-314.	5.4	825
2	Nutrient recycling of aqueous phase for microalgae cultivation from the hydrothermal liquefaction process. <i>Algal Research</i> , 2012, 1, 70-76.	4.6	415
3	Winter presence of prochlorophytes in surface waters of the northwestern Mediterranean Sea. <i>Limnology and Oceanography</i> , 1990, 35, 1156-1164.	3.1	165
4	Using microalgae in the circular economy to valorise anaerobic digestate: challenges and opportunities. <i>Bioresource Technology</i> , 2018, 267, 732-742.	9.6	159
5	Distribution and Abundance of MAAs in 33 Species of Microalgae across 13 Classes. <i>Marine Drugs</i> , 2010, 8, 1273-1291.	4.6	156
6	Methane flux to the atmosphere from the Arabian Sea. <i>Nature</i> , 1991, 354, 293-296.	27.8	127
7	The Relevance of Marine Chemical Ecology to Plankton and Ecosystem Function: An Emerging Field. <i>Marine Drugs</i> , 2011, 9, 1625-1648.	4.6	106
8	Phytoplankton community assemblage in the English Channel: a comparison using chlorophyll a derived from HPLC-CHEMTAX and carbon derived from microscopy cell counts. <i>Journal of Plankton Research</i> , 2004, 27, 103-119.	1.8	102
9	Quantitative interpretation of chemotaxonomic pigment data. , 2011, , 257-313.		101
10	Microalgal classes and their signature pigments. , 2011, , 3-77.		99
11	Algae biostimulants: A critical look at microalgal biostimulants for sustainable agricultural practices. <i>Biotechnology Advances</i> , 2021, 49, 107754.	11.7	96
12	Nitrogen biogeochemical cycling in the northwestern Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1993, 40, 651-671.	1.4	93
13	Chlorophyll <i>f</i> and chlorophyll <i>d</i> are produced in the cyanobacterium <i>Chlorogloeopsis fritschii</i> when cultured under natural light and near-infrared radiation. <i>FEBS Letters</i> , 2014, 588, 3770-3777.	2.8	92
14	Size-fractionated primary production and nitrogen assimilation in the northwestern Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1993, 40, 697-709.	1.4	86
15	The physical and chemical environment and changes in community structure associated with bloom evolution: the Joint Global Flux Study North Atlantic Bloom Experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1993, 40, 347-368.	1.4	64
16	Intra-class variability in the carbon, pigment and biomineral content of prymnesiophytes and diatoms. <i>Marine Ecology - Progress Series</i> , 2000, 193, 33-44.	1.9	61
17	Chlorophyll degradation and absorption throughout the digestive system of the blue mussel <i>Mytilus edulis</i> L.. <i>Journal of Experimental Marine Biology and Ecology</i> , 1986, 96, 213-223.	1.5	58
18	The Use of Pollutant and Biogenic Markers as Source Discriminants of Organic Inputs to Estuarine Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , 1986, 27, 29-54.	3.3	58

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19	PRODUCTS OF CHLOROPHYLL PHOTODEGRADATIONâ€™2. STRUCTURAL IDENTIFICATION. <i>Photochemistry and Photobiology</i> , 1990, 52, 1043-1047.	2.5	55
20	High concentrations of mycosporineâ€™like amino acids and colored dissolved organic matter in the sea surface microlayer off the Iberian Peninsula. <i>Limnology and Oceanography</i> , 2010, 55, 1835-1850.	3.1	55
21	Cyanobacterial metabolites as a source of sunscreens and moisturizers: a comparison with current synthetic compounds. <i>European Journal of Phycology</i> , 2017, 52, 43-56.	2.0	47
22	PRODUCTS OF CHLOROPHYLL PHOTODEGRADATIONâ€™1. DETECTION and SEPARATION. <i>Photochemistry and Photobiology</i> , 1990, 52, 1037-1041.	2.5	44
23	A low energy process for the recovery of bioproducts from cyanobacteria using a ball mill. <i>Biochemical Engineering Journal</i> , 2012, 69, 48-56.	3.6	44
24	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. <i>Earth System Science Data</i> , 2013, 5, 109-123.	9.9	44
25	Valorising nutrient-rich digestate: Dilution, settlement and membrane filtration processing for optimisation as a waste-based media for microalgal cultivation. <i>Waste Management</i> , 2020, 118, 197-208.	7.4	43
26	Phytoplankton taxa, irradiance and nutrient availability determine the seasonal cycle of DMSP in temperate shelf seas. <i>Marine Ecology - Progress Series</i> , 2009, 394, 111-124.	1.9	43
27	Assessment of Chlorogloeopsis as a novel microbial dietary supplement for red tilapia (<i>Oreochromis</i>) Tj ETQq1 1 0.784314 rgBT /Over 3.5 40	3.5	40
28	The distribution of chlorophylls, carotenoids and their breakdown products in Lake Kinneret (Israel) sediments. <i>Freshwater Biology</i> , 1991, 26, 1-10.	2.4	36
29	Seasonal variation in <i>Pseudo-nitzschia</i> spp. and domoic acid in the Western English Channel. <i>Continental Shelf Research</i> , 2013, 53, 40-49.	1.8	31
30	IMPROVED DETECTION AND CHARACTERIZATION OF FUCOXANTHIN-TYPE CAROTENOIDS: NOVEL PIGMENTS IN <i>EMILIANA HUXLEYI</i> (PRYMNESIOPHYCEAE)1. <i>Journal of Phycology</i> , 2006, 42, 391-399.	2.3	30
31	Towards a circular economy: A novel microalgal two-step growth approach to treat excess nutrients from digestate and to produce biomass for animal feed. <i>Bioresource Technology</i> , 2021, 320, 124349.	9.6	30
32	The response of carotenoids and chlorophylls during virus infection of <i>Emiliana huxleyi</i> (Prymnesiophyceae). <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 344, 101-112.	1.5	28
33	Phytoplankton community composition in the south-eastern Black Sea determined with pigments measured by HPLC-CHEMTAX analyses and microscopy cell counts. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2015, 95, 35-52.	0.8	28
34	Pinkâ€™ and orangeâ€™ pigmented Planctomycetes produce saxoroxanthinâ€™ type carotenoids including a rare C₄₅ carotenoid. <i>Environmental Microbiology Reports</i> , 2019, 11, 741-748.	2.4	28
35	Using community metabolomics as a new approach to discriminate marine microbial particulate organic matter in the western English Channel. <i>Progress in Oceanography</i> , 2015, 137, 421-433.	3.2	27
36	Comparing Nutrient Removal from Membrane Filtered and Unfiltered Domestic Wastewater Using <i>Chlorella vulgaris</i> . <i>Biology</i> , 2018, 7, 12.	2.8	26

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37	Intracellular and Extracellular Metabolites from the Cyanobacterium <i>Chlorogloeopsis fritschii</i> , PCC 6912, During 48 Hours of UV-B Exposure. <i>Metabolites</i> , 2019, 9, 74.	2.9	26
38	Synthesis, Regulation and Degradation of Carotenoids Under Low Level UV-B Radiation in the Filamentous Cyanobacterium <i>Chlorogloeopsis fritschii</i> PCC 6912. <i>Frontiers in Microbiology</i> , 2020, 11, 163.	3.5	26
39	Flow cytometry and pigment analyses as tools to investigate the toxicity of herbicides to natural phytoplankton communities. <i>Marine Environmental Research</i> , 2004, 58, 353-358.	2.5	25
40	Combining HPLC pigment markers and ecological similarity indices to assess phytoplankton community structure: An environmental tool for eutrophication?. <i>Science of the Total Environment</i> , 2006, 361, 97-110.	8.0	24
41	Temporal changes in total and size-fractioned chlorophyll-a in surface waters of three provinces in the Atlantic Ocean (September to November) between 2003 and 2010. <i>Journal of Marine Systems</i> , 2015, 150, 56-65.	2.1	23
42	Microbial dynamics during the decline of a spring diatom bloom in the Northeast Atlantic. <i>Journal of Plankton Research</i> , 2007, 30, 261-273.	1.8	22
43	Light Intensity and Nitrogen Concentration Impact on the Biomass and Phycoerythrin Production by <i>Porphyridium purpureum</i> . <i>Marine Drugs</i> , 2019, 17, 460.	4.6	22
44	Characterisation of bacteria from the cultures of a <i>Chlorella</i> strain isolated from textile wastewater and their growth enhancing effects on the axenic cultures of <i>Chlorella vulgaris</i> in low nutrient media. <i>Algal Research</i> , 2019, 44, 101666.	4.6	21
45	Carotenoid metabolism in phytoplankton. , 2011, , 113-162.		19
46	Secondary Metabolites in Cyanobacteria. , 0, , .		18
47	Trace Enrichment of marine algal pigments for use with HPLC-diode array spectroscopy. <i>Journal of High Resolution Chromatography</i> , 1984, 7, 632-635.	1.4	17
48	Modulation of Polar Lipid Profiles in <i>Chlorella</i> sp. in Response to Nutrient Limitation. <i>Metabolites</i> , 2019, 9, 39.	2.9	17
49	Mycosporine-like amino acid and aromatic amino acid transcriptome response to UV and far-red light in the cyanobacterium <i>Chlorogloeopsis fritschii</i> PCC 6912. <i>Scientific Reports</i> , 2020, 10, 20638.	3.3	17
50	Microalgae Cultivation on Nutrient Rich Digestate: The Importance of Strain and Digestate Tailoring under PH Control. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5429.	2.5	17
51	Distribution of Mycosporine-Like Amino Acids Along a Surface Water Meridional Transect of the Atlantic. <i>Microbial Ecology</i> , 2012, 64, 320-333.	2.8	15
52	Pigment biomarkers and particulate carbon in the upper water column compared to the ocean interior of the northeast Atlantic. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1996, 43, 1165-1184.	1.4	14
53	Atmospheric pressure chemical ionisation liquid chromatography/mass spectrometry of type II chlorophyll-a transformation products: Diagnostic fragmentation patterns. <i>Organic Geochemistry</i> , 2010, 41, 473-481.	1.8	14
54	Type I and Type II chlorophyll-a transformation products associated with algal senescence. <i>Organic Geochemistry</i> , 2011, 42, 451-464.	1.8	14

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55	Far-Red Light Acclimation for Improved Mass Cultivation of Cyanobacteria. <i>Metabolites</i> , 2019, 9, 170.	2.9	14
56	Reversible colony formation and the associated costs in <i>Scenedesmus obliquus</i> . <i>Journal of Plankton Research</i> , 2019, 41, 419-429.	1.8	14
57	Modelling xanthophyll photoprotective activity in phytoplankton. <i>Journal of Plankton Research</i> , 2012, 34, 196-207.	1.8	12
58	A UV absorbing compound in HPLC pigment chromatograms obtained from Icelandic Basin phytoplankton. <i>Marine Ecology - Progress Series</i> , 1997, 158, 283-287.	1.9	12
59	New HPLC separation techniques. , 0, , 165-194.		10
60	EFFECTS OF ULTRAVIOLET-A RADIATION AND NUTRIENT AVAILABILITY ON THE CELLULAR COMPOSITION OF PHOTOPROTECTIVE COMPOUNDS IN <i>GLENODINIUM FOLIACEUM</i> (DINOPHYCEAE). <i>Journal of Phycology</i> , 2011, 47, 1078-1088.	2.3	9
61	Chlorophyll-a transformations associated with sinking diatoms during termination of a North Atlantic spring bloom. <i>Marine Chemistry</i> , 2015, 172, 23-33.	2.3	9
62	Transformation of chlorophyll a during viral infection of <i>Emiliania huxleyi</i> . <i>Aquatic Microbial Ecology</i> , 2013, 69, 205-210.	1.8	8
63	Liquid chromatography-mass spectrometry for pigment analysis. , 2011, , 314-342.		7
64	Deriving Economic Value from Metabolites in Cyanobacteria. <i>Grand Challenges in Biology and Biotechnology</i> , 2019, , 535-576.	2.4	3
65	Perspectives on future directions. , 0, , 609-624.		1
66	Turning defence into offence? Intrusion of cladoceran brood chambers by a green alga leads to reproductive failure. <i>Royal Society Open Science</i> , 2020, 7, 200249.	2.4	1
67	Response of Key Metabolites during a UV-A Exposure Time-Series in the Cyanobacterium <i>Chlorogloeopsis fritschii</i> PCC 6912. <i>Microorganisms</i> , 2021, 9, 910.	3.6	1
68	Xanthophylls. , 0, , 728-822.		0