

Carole Anne Llewellyn

List of Publications by Year in descending order

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68
papers

3,994
citations

230014

27
h-index

145109

60
g-index

68
all docs

68
docs citations

68
times ranked

4980
citing authors

#	ARTICLE	IF	CITATIONS
1	Microalgae Cultivation on Nutrient Rich Digestate: The Importance of Strain and Digestate Tailoring under PH Control. Applied Sciences (Switzerland), 2022, 12, 5429.	1.3	17
2	Towards a circular economy: A novel microalgal two-step growth approach to treat excess nutrients from digestate and to produce biomass for animal feed. Bioresource Technology, 2021, 320, 124349.	4.8	30
3	Response of Key Metabolites during a UV-A Exposure Time-Series in the Cyanobacterium Chlorogloeopsis fritschii PCC 6912. Microorganisms, 2021, 9, 910.	1.6	1
4	Algae biostimulants: A critical look at microalgal biostimulants for sustainable agricultural practices. Biotechnology Advances, 2021, 49, 107754.	6.0	96
5	Valorising nutrient-rich digestate: Dilution, settlement and membrane filtration processing for optimisation as a waste-based media for microalgal cultivation. Waste Management, 2020, 118, 197-208.	3.7	43
6	Mycosporine-like amino acid and aromatic amino acid transcriptome response to UV and far-red light in the cyanobacterium Chlorogloeopsis fritschii PCC 6912. Scientific Reports, 2020, 10, 20638.	1.6	17
7	Turning defence into offence? Intrusion of cladoceran brood chambers by a green alga leads to reproductive failure. Royal Society Open Science, 2020, 7, 200249.	1.1	1
8	Synthesis, Regulation and Degradation of Carotenoids Under Low Level UV-B Radiation in the Filamentous Cyanobacterium Chlorogloeopsis fritschii PCC 6912. Frontiers in Microbiology, 2020, 11, 163.	1.5	26
9	Light Intensity and Nitrogen Concentration Impact on the Biomass and Phycoerythrin Production by Porphyridium purpureum. Marine Drugs, 2019, 17, 460.	2.2	22
10	Pink and orange pigmented Planctomycetes produce saxoroxanthin-type carotenoids including a rare C ₄₅ carotenoid. Environmental Microbiology Reports, 2019, 11, 741-748.	1.0	28
11	Far-Red Light Acclimation for Improved Mass Cultivation of Cyanobacteria. Metabolites, 2019, 9, 170.	1.3	14
12	Reversible colony formation and the associated costs in Scenedesmus obliquus. Journal of Plankton Research, 2019, 41, 419-429.	0.8	14
13	Intracellular and Extracellular Metabolites from the Cyanobacterium Chlorogloeopsis fritschii, PCC 6912, During 48 Hours of UV-B Exposure. Metabolites, 2019, 9, 74.	1.3	26
14	Modulation of Polar Lipid Profiles in Chlorella sp. in Response to Nutrient Limitation. Metabolites, 2019, 9, 39.	1.3	17
15	Characterisation of bacteria from the cultures of a Chlorella strain isolated from textile wastewater and their growth enhancing effects on the axenic cultures of Chlorella vulgaris in low nutrient media. Algal Research, 2019, 44, 101666.	2.4	21
16	Deriving Economic Value from Metabolites in Cyanobacteria. Grand Challenges in Biology and Biotechnology, 2019, , 535-576.	2.4	3
17	Using microalgae in the circular economy to valorise anaerobic digestate: challenges and opportunities. Bioresource Technology, 2018, 267, 732-742.	4.8	159
18	Comparing Nutrient Removal from Membrane Filtered and Unfiltered Domestic Wastewater Using Chlorella vulgaris. Biology, 2018, 7, 12.	1.3	26

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19	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.	0.9	47
20	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.	0.4	28
21	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.	1.5	27
22	Temporal changes in total and size-fractionated 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.	0.9	23
23	Chlorophyll-a transformations associated with sinking diatoms during termination of a North Atlantic spring bloom. <i>Marine Chemistry</i> , 2015, 172, 23-33.	0.9	9
24	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.	1.3	92
25	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.	0.9	31
26	Transformation of chlorophyll a during viral infection of <i>Emiliania huxleyi</i> . <i>Aquatic Microbial Ecology</i> , 2013, 69, 205-210.	0.9	8
27	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. <i>Earth System Science Data</i> , 2013, 5, 109-123.	3.7	44
28	Modelling xanthophyll photoprotective activity in phytoplankton. <i>Journal of Plankton Research</i> , 2012, 34, 196-207.	0.8	12
29	Nutrient recycling of aqueous phase for microalgae cultivation from the hydrothermal liquefaction process. <i>Algal Research</i> , 2012, 1, 70-76.	2.4	415
30	A low energy process for the recovery of bioproducts from cyanobacteria using a ball mill. <i>Biochemical Engineering Journal</i> , 2012, 69, 48-56.	1.8	44
31	Distribution of Mycosporine-Like Amino Acids Along a Surface Water Meridional Transect of the Atlantic. <i>Microbial Ecology</i> , 2012, 64, 320-333.	1.4	15
32	Type I and Type II chlorophyll-a transformation products associated with algal senescence. <i>Organic Geochemistry</i> , 2011, 42, 451-464.	0.9	14
33	Liquid chromatography-mass spectrometry for pigment analysis. , 2011, , 314-342.		7
34	Carotenoid metabolism in phytoplankton. , 2011, , 113-162.		19
35	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
36	Quantitative interpretation of chemotaxonomic pigment data. , 2011, , 257-313.		101

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37	Microalgal classes and their signature pigments. , 2011, , 3-77.		99
38	EFFECTS OF ULTRAVIOLET-A RADIATION AND NUTRIENT AVAILABILITY ON THE CELLULAR COMPOSITION OF PHOTOPROTECTIVE COMPOUNDS IN <i>GLENODINIUM FOLIACEUM</i> (DINOPHYCEAE). Journal of Phycology, 2011, 47, 1078-1088.	1.0	9
39	High concentrations of mycosporine-like amino acids and colored dissolved organic matter in the sea surface microlayer off the Iberian Peninsula. Limnology and Oceanography, 2010, 55, 1835-1850.	1.6	55
40	Distribution and Abundance of MAAs in 33 Species of Microalgae across 13 Classes. Marine Drugs, 2010, 8, 1273-1291.	2.2	156
41	Atmospheric pressure chemical ionisation liquid chromatography/mass spectrometry of type II chlorophyll-a transformation products: Diagnostic fragmentation patterns. Organic Geochemistry, 2010, 41, 473-481.	0.9	14
42	Assessment of Chlorogloeopsis as a novel microbial dietary supplement for red tilapia (Oreochromis Tj ETQq0 0 0 r gBT /Overlock 10 Tf	1.7	40
43	Phytoplankton taxa, irradiance and nutrient availability determine the seasonal cycle of DMSP in temperate shelf seas. Marine Ecology - Progress Series, 2009, 394, 111-124.	0.9	43
44	Microbial dynamics during the decline of a spring diatom bloom in the Northeast Atlantic. Journal of Plankton Research, 2007, 30, 261-273.	0.8	22
45	The response of carotenoids and chlorophylls during virus infection of <i>Emiliana huxleyi</i> (Prymnesiophyceae). Journal of Experimental Marine Biology and Ecology, 2007, 344, 101-112.	0.7	28
46	IMPROVED DETECTION AND CHARACTERIZATION OF FUCOXANTHIN-TYPE CAROTENOIDS: NOVEL PIGMENTS IN <i>EMILIANIA HUXLEYI</i> (PRYMNESIOPHYCEAE)1. Journal of Phycology, 2006, 42, 391-399.	1.0	30
47	Combining HPLC pigment markers and ecological similarity indices to assess phytoplankton community structure: An environmental tool for eutrophication?. Science of the Total Environment, 2006, 361, 97-110.	3.9	24
48	Phytoplankton community assemblage in the English Channel: a comparison using chlorophyll a derived from HPLC-CHEMTAX and carbon derived from microscopy cell counts. Journal of Plankton Research, 2004, 27, 103-119.	0.8	102
49	Flow cytometry and pigment analyses as tools to investigate the toxicity of herbicides to natural phytoplankton communities. Marine Environmental Research, 2004, 58, 353-358.	1.1	25
50	Intra-class variability in the carbon, pigment and biomineral content of prymnesiophytes and diatoms. Marine Ecology - Progress Series, 2000, 193, 33-44.	0.9	61
51	A UV absorbing compound in HPLC pigment chromatograms obtained from Icelandic Basin phytoplankton. Marine Ecology - Progress Series, 1997, 158, 283-287.	0.9	12
52	Pigment biomarkers and particulate carbon in the upper water column compared to the ocean interior of the northeast Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1165-1184.	0.6	14
53	Nitrogen biogeochemical cycling in the northwestern Indian Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 1993, 40, 651-671.	0.6	93
54	Size-fractionated primary production and nitrogen assimilation in the northwestern Indian Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 1993, 40, 697-709.	0.6	86

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55	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.	0.6	64
56	Methane flux to the atmosphere from the Arabian Sea. <i>Nature</i> , 1991, 354, 293-296.	13.7	127
57	The distribution of chlorophylls, carotenoids and their breakdown products in Lake Kinneret (Israel) sediments. <i>Freshwater Biology</i> , 1991, 26, 1-10.	1.2	36
58	Winter presence of prochlorophytes in surface waters of the northwestern Mediterranean Sea. <i>Limnology and Oceanography</i> , 1990, 35, 1156-1164.	1.6	165
59	PRODUCTS OF CHLOROPHYLL PHOTODEGRADATIONâ€™1. DETECTION and SEPARATION. <i>Photochemistry and Photobiology</i> , 1990, 52, 1037-1041.	1.3	44
60	PRODUCTS OF CHLOROPHYLL PHOTODEGRADATIONâ€™2. STRUCTURAL IDENTIFICATION. <i>Photochemistry and Photobiology</i> , 1990, 52, 1043-1047.	1.3	55
61	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.	0.7	58
62	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.	1.8	58
63	Trace Enrichment of marine algal pigments for use with HPLC-diode array spectroscopy. <i>Journal of High Resolution Chromatography</i> , 1984, 7, 632-635.	2.0	17
64	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.	2.6	825
65	Perspectives on future directions. , 0, , 609-624.		1
66	Xanthophylls. , 0, , 728-822.		0
67	New HPLC separation techniques. , 0, , 165-194.		10
68	Secondary Metabolites in Cyanobacteria. , 0, , .		18