# John Beardall

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 288 papers | 16,756 citations | 15504 65 h-index | 20961 115 g-index |
| 316 all docs | 316 docs citations | 316 times ranked | 14084 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | CO2CONCENTRATING MECHANISMS IN ALGAE: Mechanisms, Environmental Modulation, and Evolution. Annual Review of Plant Biology, 2005, 56, 99-131. | 18.7 | 1,238 |
| 2 | Phytoplankton in a changing world: cell size and elemental stoichiometry. Journal of Plankton Research, 2010, 32, 119-137. | 1.8 | 909 |
| 3 | ADAPTATION OF UNICELLULAR ALGAE TO IRRADIANCE: AN ANALYSIS OF STRATEGIES. New Phytologist, 1983, 93, 157-191. | 7.3 | 640 |
| 4 | What is conservation physiology? Perspectives on an increasingly integrated and essential science. , 2013, 1, cot001-cot001. | | 350 |
| 5 | Atmospheric trace gases support primary production in Antarctic desert surface soil. Nature, 2017, 552, 400-403. | 27.8 | 290 |
| 6 | The potential effects of global climate change on microalgal photosynthesis, growth and ecology. Phycologia, 2004, 43, 26-40. | 1.4 | 285 |
| 7 | Mechanistic interpretation of carbon isotope discrimination by marine macroalgae and seagrasses. Functional Plant Biology, 2002, 29, 355. | 2.1 | 284 |
| 8 | Means and extremes: building variability into communityâ€level climate change experiments. Ecology Letters, 2013, 16, 799-806. | 6.4 | 278 |
| 9 | FOURIER TRANSFORM INFRARED SPECTROSCOPY AS A NOVEL TOOL TO INVESTIGATE CHANGES IN INTRACELLULAR MACROMOLECULAR POOLS IN THE MARINE MICROALGA CHAETOCEROS MUELLERII (BACILLARIOPHYCEAE). Journal of Phycology, 2001, 37, 271-279. | 2.3 | 258 |
| 10 | Using marine macroalgae for carbon sequestration: a critical appraisal. Journal of Applied Phycology, 2011, 23, 877-886. | 2.8 | 246 |
| 11 | Approaches for determining phytoplankton nutrient limitation. Aquatic Sciences, 2001, 63, 44-69. | 1.5 | 244 |
| 12 | Diversity of carbon use strategies in a kelp forest community: implications for a high CO2 ocean. Global Change Biology, 2011, 17, 2488-2497. | 9.5 | 233 |
| 13 | Algal evolution in relation to atmospheric CO <sub>2</sub> : carboxylases, carbon-concentrating mechanisms and carbon oxidation cycles. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 493-507. | 4.0 | 231 |
| 14 | Extremophilic micro-algae and their potential contribution in biotechnology. Bioresource Technology, 2015, 184, 363-372. | 9.6 | 224 |
| 15 | Algal and aquatic plant carbon concentrating mechanisms in relation to environmental change. Photosynthesis Research, 2011, 109, 281-296. | 2.9 | 218 |
| 16 | The concept of light intensity adaptation in marine phytoplankton: Some experiments with Phaeodactylum tricornutum. Marine Biology, 1976, 37, 377-387. | 1.5 | 212 |
| 17 | Fourier Transform Infrared microspectroscopy and chemometrics as a tool for the discrimination of cyanobacterial strains. Phytochemistry, 1999, 52, 407-417. | 2.9 | 201 |
| 18 | Energy costs of carbon dioxide concentrating mechanisms in aquatic organisms. Photosynthesis Research, 2014, 121, 111-124. | 2.9 | 199 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Living in a high CO<sub>2</sub>world: impacts of global climate change on marine phytoplankton. Plant Ecology and Diversity, 2009, 2, 191-205. | 2.4 | 177 |
| 20 | Put out the light, and then put out the light. Journal of the Marine Biological Association of the United Kingdom, 2000, 80, 1-25. | 0.8 | 174 |
| 21 | Ecological implications of microalgal and cyanobacterial CO2 concentrating mechanisms, and their regulation. Functional Plant Biology, 2002, 29, 335. | 2.1 | 171 |
| 22 | Utilization of inorganic carbon by marine microalgae. Journal of Experimental Marine Biology and Ecology, 1987, 107, 75-86. | 1.5 | 164 |
| 23 | Comparison of marine macrophytes for their contributions to blue carbon sequestration. Ecology, 2015, 96, 3043-3057. | 3.2 | 162 |
| 24 | Changes in pH at the exterior surface of plankton with ocean acidification. Nature Climate Change, 2012, 2, 510-513. | 18.8 | 158 |
| 25 | Can macroalgae contribute to blue carbon? An <scp>A</scp>ustralian perspective. Limnology and Oceanography, 2015, 60, 1689-1706. | 3.1 | 153 |
| 26 | Understanding the winning strategies used by the bloom-forming cyanobacterium Cylindrospermopsis raciborskii. Harmful Algae, 2016, 54, 44-53. | 4.8 | 152 |
| 27 | Effects of pre-processing of Raman spectra onin vivo classification of nutrient status of microalgal cells. Journal of Chemometrics, 2006, 20, 193-197. | 1.3 | 146 |
| 28 | Algae lacking carbon-concentrating mechanisms. Canadian Journal of Botany, 2005, 83, 879-890. | 1.1 | 145 |
| 29 | Effect of salinity on fatty acid composition of a green microalga from an antarctic hypersaline lake. Phytochemistry, 1997, 45, 655-658. | 2.9 | 139 |
| 30 | Allometry and stoichiometry of unicellular, colonial and multicellular phytoplankton. New Phytologist, 2009, 181, 295-309. | 7.3 | 138 |
| 31 | Effects of Ocean Acidification on Marine Photosynthetic Organisms Under the Concurrent Influences of Warming, UV Radiation, and Deoxygenation. Frontiers in Marine Science, 2019, 6, . | 2.5 | 136 |
| 32 | PHOTOSYNTHETIC FUNCTION IN <i>DUNALIELLA TERTIOLECTA</i> (CHLOROPHYTA) DURING A NITROGEN STARVATION AND RECOVERY CYCLE. Journal of Phycology, 2003, 39, 897-905. | 2.3 | 118 |
| 33 | A Portable Raman Acoustic Levitation Spectroscopic System for the Identification and Environmental Monitoring of Algal Cells. Analytical Chemistry, 2005, 77, 4955-4961. | 6.5 | 118 |
| 34 | Inorganic C-sources for Lemanea, Cladophora and Ranunculus in a fast-flowing stream: Measurements of gas exchange and of carbon isotope ratio and their ecological implications. Oecologia, 1982, 53, 68-78. | 2.0 | 117 |
| 35 | Changes in chlorophyll fluorescence during exposure of Dunaliella tertiolecta to UV radiation indicate a dynamic interaction between damage and repair processes. , 2000, 63, 123-134. | | 117 |
| 36 | Mapping of nutrient-induced biochemical changes in living algal cells using synchrotron infrared microspectroscopy. FEMS Microbiology Letters, 2005, 249, 219-225. | 1.8 | 112 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The possible evolution and future of CO2-concentrating mechanisms. Journal of Experimental Botany, 2017, 68, 3701-3716. | 4.8 | 111 |
| 38 | Phagotrophy in the origins of photosynthesis in eukaryotes and as a complementary mode of nutrition in phototrophs: relation to Darwin's insectivorous plants. Journal of Experimental Botany, 2009, 60, 3975-3987. | 4.8 | 108 |
| 39 | Biodiversity of Marine Plants in an Era of Climate Change: Some Predictions Based on Physiological Performance. Botanica Marina, 1998, 41, . | 1.2 | 106 |
| 40 | TRANSPORT OF INORGANIC CARBON AND THE â€˜CO<sub>2</sub> CONCENTRATING MECHANISMâ€™ IN <i>CHLORELLA EMERSONII</i> (CHLOROPHYCEAE)<sup>1</sup>. Journal of Phycology, 1981, 17, 134-141. | 2.3 | 105 |
| 41 | IS THE GROWTH RATE HYPOTHESIS APPLICABLE TO MICROALGAE?1. Journal of Phycology, 2010, 46, 1-12. | 2.3 | 105 |
| 42 | Inorganic carbon acquisition by Xiphophora chondrophylla (Phaeophyta, Fucales). Phycologia, 1996, 35, 83-89. | 1.4 | 104 |
| 43 | The ins and outs of CO<sub>2</sub>. Journal of Experimental Botany, 2016, 67, 1-13. | 4.8 | 102 |
| 44 | Interactions between the impacts of ultraviolet radiation, elevated CO2, and nutrient limitation on marine primary producers. Photochemical and Photobiological Sciences, 2009, 8, 1257-1265. | 2.9 | 101 |
| 45 | Addressing calcium carbonate cycling in blue carbon accounting. Limnology and Oceanography Letters, 2017, 2, 195-201. | 3.9 | 100 |
| 46 | Carbon Isotope Discrimination and the CO2 Accumulating Mechanism in Chlorella emersonii. Journal of Experimental Botany, 1982, 33, 729-737. | 4.8 | 96 |
| 47 | <i>In vivo</i>prediction of the nutrient status of individual microalgal cells using Raman microspectroscopy. FEMS Microbiology Letters, 2007, 275, 24-30. | 1.8 | 93 |
| 48 | CO 2 concentrating mechanisms and environmental change. Aquatic Botany, 2014, 118, 24-37. | 1.6 | 92 |
| 49 | Ocean acidification increases the accumulation of toxic phenolic compounds across trophic levels. Nature Communications, 2015, 6, 8714. | 12.8 | 91 |
| 50 | Seaweeds in Cold Seas: Evolution and Carbon Acquisition. Annals of Botany, 2002, 90, 525-536. | 2.9 | 90 |
| 51 | A comparison of methods for detection of phosphate limitation in microalgae. Aquatic Sciences, 2001, 63, 107-121. | 1.5 | 86 |
| 52 | Protein turnover in relation to maintenance metabolism at low photon flux in two marine microalgae. Plant, Cell and Environment, 2003, 26, 693-703. | 5.7 | 86 |
| 53 | Interactive Effects of Ocean Acidification and Nitrogen-Limitation on the Diatom Phaeodactylum tricornutum. PLoS ONE, 2012, 7, e51590. | 2.5 | 86 |
| 54 | Impacts of nitrogen and phosphorus starvation on the physiology of Chlamydomonas reinhardtii. Journal of Applied Phycology, 2016, 28, 1509-1520. | 2.8 | 84 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Carbon dioxide mitigation potential of seaweed aquaculture beds (SABs). Journal of Applied Phycology, 2017, 29, 2363-2373. | 2.8 | 84 |
| 56 | Effects of nitrogen source and UV radiation on the growth, chlorophyll fluorescence and fatty acid composition of Phaeodactylum tricornutum and Chaetoceros muelleri (Bacillariophyceae). Journal of Photochemistry and Photobiology B: Biology, 2006, 82, 161-172. | 3.8 | 83 |
| 57 | THE PATH OF CARBON IN PHOTOSYNTHESIS BY MARINE PHYTOPLANKTON12. Journal of Phycology, 1976, 12, 409-417. | 2.3 | 80 |
| 58 | Effects of lead on growth, photosynthetic characteristics and production of reactive oxygen species of two freshwater green algae. Chemosphere, 2016, 147, 420-429. | 8.2 | 79 |
| 59 | Photosynthesis in a marine diatom. Nature, 2001, 412, 40-41. | 27.8 | 77 |
| 60 | EVOLUTIONARY RESPONSES OF A COCCOLITHOPHORID<i>GEPHYROCAPSA OCEANICA</i>TO OCEAN ACIDIFICATION. Evolution; International Journal of Organic Evolution, 2013, 67, 1869-1878. | 2.3 | 77 |
| 61 | Bacterial fermentation and respiration processes are uncoupled in anoxic permeable sediments. Nature Microbiology, 2019, 4, 1014-1023. | 13.3 | 76 |
| 62 | The future of seaweed aquaculture in a rapidly changing world. European Journal of Phycology, 2017, 52, 495-505. | 2.0 | 75 |
| 63 | Photosynthetic performance of outdoor Nannochloropsis mass cultures under a wide range of environmental conditions. Aquatic Microbial Ecology, 2009, 56, 297-308. | 1.8 | 74 |
| 64 | Photosynthesis and photorespiration in marine phytoplankton. Aquatic Botany, 1989, 34, 105-130. | 1.6 | 73 |
| 65 | Regulation of inorganic carbon acquisition by phosphorus limitation in the green alga Chlorella emersonii. Canadian Journal of Botany, 2005, 83, 859-864. | 1.1 | 73 |
| 66 | Decreased photosynthesis and growth with reduced respiration in the model diatom <i>Phaeodactylum tricornutum</i> grown under elevated <scp>CO</scp><sub>2</sub> over 1800 generations. Global Change Biology, 2017, 23, 127-137. | 9.5 | 73 |
| 67 | Neither elevated nor reduced CO2 affects the photophysiological performance of the marine Antarctic diatom Chaetoceros brevis. Journal of Experimental Marine Biology and Ecology, 2011, 406, 38-45. | 1.5 | 71 |
| 68 | Isolation and biochemical characterisation of two thermophilic green algal species- Asterarcys quadricellulare and Chlorella sorokiniana, which are tolerant to high levels of carbon dioxide and nitric oxide. Algal Research, 2018, 30, 28-37. | 4.6 | 71 |
| 69 | Environmental regulation of CO<sub>2</sub>-concentrating mechanisms in microalgae. Canadian Journal of Botany, 1998, 76, 1010-1017. | 1.1 | 69 |
| 70 | Studies on enhanced post-illumination respiration in microalgae. Journal of Plankton Research, 1994, 16, 1401-1410. | 1.8 | 65 |
| 71 | Effects of salinity on inorganic carbon utilization and carbonic anhydrase activity in the halotolerant alga Dunaliella salina (Chlorophyta). Phycologia, 1991, 30, 220-225. | 1.4 | 64 |
| 72 | BENTHIC MICROALGAL COLONIZATION IN STREAMS OF DIFFERING RIPARIAN COVER AND LIGHT AVAILABILITY. Journal of Phycology, 2004, 40, 1004-1012. | 2.3 | 64 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Phenotypic Plasticity of Southern Ocean Diatoms: Key to Success in the Sea Ice Habitat?. PLoS ONE, 2013, 8, e81185. | 2.5 | 63 |
| 74 | Ocean acidification as a multiple driver: how interactions between changing seawater carbonate parameters affect marine life. Marine and Freshwater Research, 2020, 71, 263. | 1.3 | 62 |
| 75 | Current understanding and challenges for aquatic primary producers in a world with rising micro- and nano-plastic levels. Journal of Hazardous Materials, 2021, 406, 124685. | 12.4 | 62 |
| 76 | Interactive effects of nutrient supply and other environmental factors on the sensitivity of marine primary producers to ultraviolet radiation: implications for the impacts of global change. Aquatic Biology, 2014, 22, 5-23. | 1.4 | 62 |
| 77 | NITROGEN LIMITATION IN DUNALIELLA TERTIOLECTA (CHLOROPHYCEAE) LEADS TO INCREASED SUSCEPTIBILITY TO DAMAGE BY ULTRAVIOLETâ€B RADIATION BUT ALSO INCREASED REPAIR CAPACITY 1. Journal of Phycology, 2002, 38, 713-720. | 2.3 | 60 |
| 78 | Ocean urea fertilization for carbon credits poses high ecological risks. Marine Pollution Bulletin, 2008, 56, 1049-1056. | 5.0 | 58 |
| 79 | RAPID AMMONIUMâ€•AND NITRATEâ€INDUCED PERTURBATIONS TO CHL <i>a</i> FLUORESCENCE IN NITROGENâ€STRESSED <i>DUNALIELLA TERTIOLECTA</i> (CHLOROPHYTA)<sup>1</sup>. Journal of Phycology, 2003, 39, 332-342. | 2.3 | 57 |
| 80 | Modulation of photosynthesis and inorganic carbon acquisition in a marine microalga by nitrogen, iron, and light availability. Canadian Journal of Botany, 2005, 83, 917-928. | 1.1 | 54 |
| 81 | Carbon Acquisition Mechanisms of Algae: Carbon Dioxide Diffusion and Carbon Dioxide Concentrating Mechanisms. Advances in Photosynthesis and Respiration, 2003, , 225-244. | 1.0 | 53 |
| 82 | INTERACTIONS BETWEEN UV-B EXPOSURE AND PHOSPHORUS NUTRITION. I. EFFECTS ON GROWTH, PHOSPHATE UPTAKE, AND CHLOROPHYLL FLUORESCENCE1. Journal of Phycology, 2005, 41, 1204-1211. | 2.3 | 53 |
| 83 | Differential responses of growth and photosynthesis in the marine diatom<i>Chaetoceros muelleri</i>to CO<sub>2</sub>and light availability. Phycologia, 2011, 50, 182-193. | 1.4 | 52 |
| 84 | Short-term variations in photosynthetic parameters of Nannochloropsis cultures grown in two types of outdoor mass cultivation systems. Aquatic Microbial Ecology, 2009, 56, 309-322. | 1.8 | 52 |
| 85 | Effects of nitrogen limitation on uptake of inorganic carbon and specific activity of ribulose-1,5-bisphosphate carboxylase/oxygenase in green microalgae. Canadian Journal of Botany, 1991, 69, 1146-1150. | 1.1 | 51 |
| 86 | Exposure times in rapid light curves affect photosynthetic parameters in algae. Aquatic Botany, 2010, 93, 185-194. | 1.6 | 51 |
| 87 | CO2 ACCUMULATION BY CHLORELLA SACCHAROPHILA (CHLOROPHYCEAE) AT LOW EXTERNAL pH: EVIDENCE FOR ACTIVE TRANSPORT OF INORGANIC CARBON AT THE CHLOROPLAST ENVELOPE1. Journal of Phycology, 1981, 17, 371-373. | 2.3 | 51 |
| 88 | Green algal molecular responses to temperature stress. Acta Physiologiae Plantarum, 2019, 41, 1. | 2.1 | 49 |
| 89 | Interactions of photosynthesis with genome size and function. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120264. | 4.0 | 48 |
| 90 | Influence of different degrees of N limitation on photosystem II performance and heterogeneity of Chlorella vulgaris. Algal Research, 2017, 26, 84-92. | 4.6 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Cell size, photosynthesis and the package effect: an artificial selection approach. New Phytologist, 2018, 219, 449-461. | 7.3 | 48 |
| 92 | Effects of lead on two green microalgae Chlorella and Scenedesmus: photosystem II activity and heterogeneity. Algal Research, 2016, 16, 150-159. | 4.6 | 47 |
| 93 | Carbon dioxide as the exogenous inorganic carbon source forBatrachospermumandLemanea. British Phycological Journal, 1981, 16, 165-175. | 1.2 | 46 |
| 94 | Inorganic carbon uptake by an Antarctic sea-ice diatom,Nitzschia frigida. Polar Biology, 1996, 16, 95-99. | 1.2 | 46 |
| 95 | Insights into the evolution of CCMs from comparisons with other resource acquisition and assimilation processes. Physiologia Plantarum, 2008, 133, 4-14. | 5.2 | 46 |
| 96 | Photosynthetic characteristics of two <i><scp>C</scp>ylindrospermopsis raciborskii</i> strains differing in their toxicity. Journal of Phycology, 2014, 50, 292-302. | 2.3 | 46 |
| 97 | Effect of elevated temperature on the physiological responses of marine Chlorella strains from different latitudes. Journal of Applied Phycology, 2018, 30, 1-13. | 2.8 | 45 |
| 98 | Interactive Effects of Temperature and UV Radiation on Photosynthesis of Chlorella Strains from Polar, Temperate and Tropical Environments: Differential Impacts on Damage and Repair. PLoS ONE, 2015, 10, e0139469. | 2.5 | 44 |
| 99 | Effect of UV radiation on growth, chlorophyll fluorescence and fatty acid composition ofPhaeodactylum tricornutumandChaetoceros muelleri(Bacillariophyceae). Phycologia, 2006, 45, 605-615. | 1.4 | 43 |
| 100 | Changes in growth, chlorophyll fluorescence and fatty acid composition with culture age in batch cultures of Phaeodactylum tricornutum and Chaetoceros muelleri (Bacillariophyceae). Botanica Marina, 2006, 49, . | 1.2 | 43 |
| 101 | Effects of UV -B radiation on inorganic carbon acquisition by the marine microalga Dunaliella tertiolecta (Chlorophyceae). Phycologia, 2002, 41, 268-272. | 1.4 | 40 |
| 102 | INTERACTIVE EFFECTS OF PAR AND UV-B RADIATION ON PSII ELECTRON TRANSPORT IN THE MARINE ALGA DUNALIELLA TERTIOLECTA (CHLOROPHYCEAE)1. Journal of Phycology, 2003, 39, 509-512. | 2.3 | 40 |
| 103 | Oxygen Consumption: Photorespiration and Chlororespiration. Advances in Photosynthesis and Respiration, 2003, , 157-181. | 1.0 | 40 |
| 104 | INTERACTIONS BETWEEN UV-B EXPOSURE AND PHOSPHORUS NUTRITION. II. EFFECTS ON RATES OF DAMAGE AND REPAIR1. Journal of Phycology, 2005, 41, 1212-1218. | 2.3 | 40 |
| 105 | CO<sub>2</sub> ACCUMULATION BY <i>CHLORELLA SACCHAROPHILA</i> (CHLOROPHYCEAE) AT LOW EXTERNAL pH: EVIDENCE FOR ACTIVE TRANSPORT OF INORGANIC CARBON AT THE CHLOROPLAST ENVELOPE<sup>1</sup>. Journal of Phycology, 1981, 17, 371-373. | 2.3 | 39 |
| 106 | Ocean acidification and nutrient limitation synergistically reduce growth and photosynthetic performances of a green tide alga <i>Ulva linza</i>. Biogeosciences, 2018, 15, 3409-3420. | 3.3 | 39 |
| 107 | Distribution and spatial variation of benthic microalgal biomass in a temperate, shallow-water marine system. Aquatic Botany, 1998, 61, 39-54. | 1.6 | 38 |
| 108 | Constitutive Cylindrospermopsin Pool Size in Cylindrospermopsis raciborskii under Different Light and CO <sub>2</sub> Partial Pressure Conditions. Applied and Environmental Microbiology, 2015, 81, 3069-3076. | 3.1 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Inorganic carbon acquisition byDunaliella tertiolecta(Chlorophyta) involves external carbonic anhydrase and direct HCO3âˆ’utilization insensitive to the anion exchange inhibitor DIDS. European Journal of Phycology, 2001, 36, 81-88. | 2.0 | 37 |
| 110 | Environmental regulation of CO2-concentrating mechanisms in microalgae. Canadian Journal of Botany, 1998, 76, 1010-1017. | 1.1 | 36 |
| 111 | Limitations on microalgal growth at very low photon fluence rates: the role of energy slippage. Photosynthesis Research, 2006, 88, 299-310. | 2.9 | 35 |
| 112 | Elevated CO2 causes changes in the photosynthetic apparatus of a toxic cyanobacterium, Cylindrospermopsis raciborskii. Journal of Plant Physiology, 2014, 171, 1091-1098. | 3.5 | 35 |
| 113 | PHOTOSYNTHETIC CHARACTERIZATION OF DEVELOPING AND MATURE AKINETES OF <i>APHANIZOMENON OVALISPORUM</i> (CYANOPROKARYOTA)<sup>1</sup>. Journal of Phycology, 2007, 43, 780-788. | 2.3 | 34 |
| 114 | Catchment urbanization increases benthic microalgal biomass in streams under controlled light conditions. Aquatic Sciences, 2007, 69, 511-522. | 1.5 | 34 |
| 115 | Title is missing!. ScienceAsia, 2006, 32(s1), 001. | 0.5 | 33 |
| 116 | Effect of high CO2 concentrations on the growth and macromolecular composition of a heat- and high-light-tolerant microalga. Journal of Applied Phycology, 2016, 28, 2631-2640. | 2.8 | 33 |
| 117 | Diatom performance in a future ocean: interactions between nitrogen limitation, temperature, and CO2-induced seawater acidification. ICES Journal of Marine Science, 2018, 75, 1451-1464. | 2.5 | 33 |
| 118 | A comparison of photoautotrophic, heterotrophic, and mixotrophic growth for biomass production by the green alga<i>Scenedesmus</i>sp. (Chlorophyceae). Phycologia, 2018, 57, 309-317. | 1.4 | 33 |
| 119 | Microalgae as Potential Anti-Inflammatory Natural Product Against Human Inflammatory Skin Diseases. Frontiers in Pharmacology, 2020, 11, 1086. | 3.5 | 33 |
| 120 | TRANSPORT OF INORGANIC CARBON AND THE 'CO2 CONCENTRATING MECHANISM' IN CHLORELLA EMERSONII (CHLOROPHYCEAE)1. Journal of Phycology, 1981, 17, 134-141. | 2.3 | 33 |
| 121 | EFFECTS OF ENVIRONMENTAL FACTORS ON PHOTOSYNTHESIS PATTERNS IN<i>PHAEODACTYLUM TRICORNUTUM</i>(BACILLARIOPHYCEAE). I. EFFECT OF NITROGEN DEFICIENCY AND LIGHT INTENSITY<sup>1</sup>. Journal of Phycology, 1975, 11, 424-429. | 2.3 | 32 |
| 122 | THE PATH OF CARBON IN PHOTOSYNTHESIS BY MARINE PHYTOPLANKTON<sup>1</sup><sup>2</sup>. Journal of Phycology, 1976, 12, 409-417. | 2.3 | 32 |
| 123 | Inorganic carbon acquisition by eight species ofCaulerpa (Caulerpaceae, Chlorophyta). Phycologia, 2006, 45, 442-449. | 1.4 | 32 |
| 124 | <scp>CO<sub>2</sub></scp>â€concentrating mechanisms in three southern hemisphere strains of <i><scp>E</scp>miliania huxleyi</i>. Journal of Phycology, 2013, 49, 670-679. | 2.3 | 31 |
| 125 | Impacts of phosphorus availability on lipid production by Chlamydomonas reinhardtii. Algal Research, 2015, 12, 191-196. | 4.6 | 31 |
| 126 | Metabolism in anoxic permeable sediments is dominated by eukaryotic dark fermentation. Nature Geoscience, 2017, 10, 30-35. | 12.9 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | The intrinsic permeability of biological membranes to $H^+$: Significance for the efficiency of low rates of energy transformation. FEMS Microbiology Letters, 1981, 10, 1-5. | 1.8 | 30 |
| 128 | Internal pH of the obligate acidophile Cyanidium caldarium Geitler (Rhodophyta?). Phycologia, 1984, 23, 397-399. | 1.4 | 30 |
| 129 | STATE TRANSITIONS AND NONPHOTOCHEMICAL QUENCHING DURING A NUTRIENTâ€INDUCED FLUORESCENCE TRANSIENT IN PHOSPHORUSâ€STARVED <i>DUNALIELLA TERTIOLECTA</i><sup>1</sup>. Journal of Phycology, 2008, 44, 1204-1211. | 2.3 | 30 |
| 130 | Carbohydrate Metabolism and Respiration in Algae. Advances in Photosynthesis and Respiration, 2003, , 205-224. | 1.0 | 29 |
| 131 | INTERCOLONIAL VARIABILITY IN MACROMOLECULAR COMPOSITION IN Pâ€STARVED AND Pâ€REPLETE <i>SCENEDESMUS</i> POPULATIONS REVEALED BY INFRARED MICROSPECTROSCOPY<sup>1</sup>. Journal of Phycology, 2008, 44, 1335-1339. | 2.3 | 29 |
| 132 | The impacts of a high $CO_2$ environment on a bicarbonate user: The cyanobacterium Cylindrospermopsis raciborskii. Water Research, 2012, 46, 1430-1437. | 11.3 | 29 |
| 133 | Carbon Acquisition by Microalgae. , 2016, , 89-99. | | 29 |
| 134 | Characterisation of Pb-induced changes and prediction of Pb exposure in microalgae using infrared spectroscopy. Aquatic Toxicology, 2017, 188, 33-42. | 4.0 | 29 |
| 135 | One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice. , 2021, 9, coab009. | | 29 |
| 136 | Carbon assimilation and losses during an ocean acidification mesocosm experiment, with special reference to algal blooms. Marine Environmental Research, 2017, 129, 229-235. | 2.5 | 28 |
| 137 | Effective electrochemical inactivation of Microcystis aeruginosa and degradation of microcystins via a novel solid polymer electrolyte sandwich. Chemical Engineering Journal, 2018, 350, 616-626. | 12.7 | 28 |
| 138 | Photosynthetic characteristics of sub-tidal benthic microalgal populations from a temperate, shallow water marine ecosystem. Aquatic Botany, 2001, 70, 9-27. | 1.6 | 27 |
| 139 | Limits to Phototrophic Growth in Dense Culture: $CO_2$ Supply and Light. , 2013, , 91-97. | | 27 |
| 140 | Assessment of the nutrient status of phytoplankton: a comparison between conventional bioassays and nutrient-induced fluorescence transients (NIFTs). Ecological Indicators, 2004, 4, 149-159. | 6.3 | 26 |
| 141 | Survival in low light: photosynthesis and growth of a red alga in relation to measured in situ irradiance. Journal of Phycology, 2013, 49, 867-879. | 2.3 | 26 |
| 142 | The effects of ultraviolet radiation on respiration and photosynthesis in two species of microalgae. Canadian Journal of Fisheries and Aquatic Sciences, 1997, 54, 687-696. | 1.4 | 25 |
| 143 | Photoacclimation involves modulation of the photosynthetic oxygen-evolving reactions in Dunaliella tertiolecta and Phaeodactylum tricornutum. Functional Plant Biology, 2003, 30, 301. | 2.1 | 25 |
| 144 | Reframing conservation physiology to be more inclusive, integrative, relevant and forward-looking: reflections and a horizon scan. , 2020, 8, coaa016. | | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | EFFECTS OF ENVIRONMENTAL FACTORS ON PHOTOSYNTHESIS PATTERNS IN PHAEODACTYLUM TRICORNUTUM (BACILLARIOPHYCEAE). I. EFFECT OF NITROGEN DEFICIENCY AND LIGHT INTENSITY1. Journal of Phycology, 1975, 11, 424-429. | 2.3 | 25 |
| 146 | Fatty acids of six Codium species from southeast Australia. Phytochemistry, 1998, 48, 1335-1339. | 2.9 | 24 |
| 147 | Inorganic carbon acquisition by two Antarctic macroalgae, Porphyra endiviifolium (Rhodophyta:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 1.2 | 24 |
| 148 | Taxon-specific responses of Southern Ocean diatoms to Fe enrichment revealed by synchrotron radiation FTIR microspectroscopy. Biogeosciences, 2014, 11, 5795-5808. | 3.3 | 24 |
| 149 | Restricted use of nitrate and a strong preference for ammonium reflects the nitrogen ecophysiology of a lightâ€limited red alga. Journal of Phycology, 2015, 51, 277-287. | 2.3 | 24 |
| 150 | Snapshot prediction of carbon productivity, carbon and protein content in a Southern Ocean diatom using FTIR spectroscopy. ISME Journal, 2016, 10, 416-426. | 9.8 | 24 |
| 151 | Growth and Photosynthetic Characteristics of Toxic and Non-Toxic Strains of the Cyanobacteria Microcystis aeruginosa and Anabaena circinalis in Relation to Light. Microorganisms, 2017, 5, 45. | 3.6 | 24 |
| 152 | EFFECTS OF ENVIRONMENTAL FACTORS ON PHOTOSYNTHESIS PATTERNS IN <i>PHAEODACTYLUM TRICORNUTUM</i> (BACILLARIOPHYCEAE). II. EFFECT OF OXYGEN<sup>1</sup>. Journal of Phycology, 1975, 11, 430-434. | 2.3 | 23 |
| 153 | Inorganic carbon acquisition by Hormosira banksii (Phaeophyta: Fucales) and its epiphyte Notheia anomala (Phaeophyta: Fucales). Phycologia, 1995, 34, 267-277. | 1.4 | 23 |
| 154 | Nitrate limitation and ocean acidification interact with UV-B to reduce photosynthetic performance in the diatom <i>Phaeodactylum tricornutum</i>. Biogeosciences, 2015, 12, 2383-2393. | 3.3 | 23 |
| 155 | Gross and net primary production: closing the gap between concepts and measurements. Aquatic Microbial Ecology, 2009, 56, 113-122. | 1.8 | 22 |
| 156 | Respiration in aquatic photolithotrophs. , 2005, , 36-46. |  | 22 |
| 157 | Viral attack exacerbates the susceptibility of a bloomâ€forming alga to ocean acidification. Global Change Biology, 2015, 21, 629-636. | 9.5 | 21 |
| 158 | Ocean acidification modulates expression of genes and physiological performance of a marine diatom. PLoS ONE, 2017, 12, e0170970. | 2.5 | 21 |
| 159 | Environmental Control of Vanadium Haloperoxidases and Halocarbon Emissions in Macroalgae. Marine Biotechnology, 2018, 20, 282-303. | 2.4 | 21 |
| 160 | Algal biophotovoltaic (BPV) device for generation of bioelectricity using Synechococcus elongatus (Cyanophyta). Journal of Applied Phycology, 2018, 30, 2981-2988. | 2.8 | 21 |
| 161 | Assessing Nutrient Status of Microalgae Using Chlorophyll a Fluorescence. , 2010, , 223-235. |  | 20 |
| 162 | Electrochemical inactivation of Cylindrospermopsis raciborskii and removal of the cyanotoxin cylindrospermopsin. Journal of Hazardous Materials, 2018, 344, 241-248. | 12.4 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Subtropical freshwater phytoplankton show a greater response to increased temperature than to increased pCO2. Harmful Algae, 2019, 90, 101705. | 4.8 | 20 |
| 164 | Decreased motility of flagellated microalgae long-term acclimated to CO2-induced acidified waters. Nature Climate Change, 2020, 10, 561-567. | 18.8 | 20 |
| 165 | Elevated CO2 and associated seawater chemistry do not benefit a model diatom grown with increased availability of light. Aquatic Microbial Ecology, 2017, 79, 137-147. | 1.8 | 20 |
| 166 | Tonle Sap Lake, the Heart of the Lower Mekong. , 2009, , 251-272. | | 19 |
| 167 | Assimilation of Diazotrophic Nitrogen into Pelagic Food Webs. PLoS ONE, 2013, 8, e67588. | 2.5 | 19 |
| 168 | The role of external carbonic anhydrase in photosynthesis during growth of the marine diatom <i>Chaetoceros muelleri</i>. Journal of Phycology, 2017, 53, 1159-1170. | 2.3 | 19 |
| 169 | Combination of ocean acidification and warming enhances the competitive advantage of Skeletonema costatum over a green tide alga, Ulva linza. Harmful Algae, 2019, 85, 101698. | 4.8 | 19 |
| 170 | EFFECTS OF ENVIRONMENTAL FACTORS ON PHOTOSYNTHESIS PATTERNS IN PHAEODACTYLUM TRICORNUTUM (BACILLARIOPHYCEAE). II. EFFECT OF OXYGEN1. Journal of Phycology, 1975, 11, 430-434. | 2.3 | 19 |
| 171 | Observations on the surface water characteristics in the western Irish Sea: July 1977. Estuarine, Coastal and Shelf Science, 1982, 14, 589-598. | 2.1 | 18 |
| 172 | Effect of elevated carbon dioxide and nitric oxide on the physiological responses of two green algae, Asterarcys quadricellulare and Chlorella sorokiniana. Journal of Applied Phycology, 2020, 32, 189-204. | 2.8 | 18 |
| 173 | Influence of global environmental Change on plankton. Journal of Plankton Research, 2021, 43, 779-800. | 1.8 | 18 |
| 174 | A seasonal study of the distributions of surface state variables in Liverpool Bay. III. An offshore front. Journal of Experimental Marine Biology and Ecology, 1982, 58, 19-31. | 1.5 | 17 |
| 175 | Photoacclimation in Dunaliella tertiolecta reveals a unique NPQ pattern upon exposure to irradiance. Photosynthesis Research, 2011, 110, 123-137. | 2.9 | 17 |
| 176 | Calcification and ocean acidification: new insights from the coccolithophore <i>Emiliania huxleyi</i>. New Phytologist, 2013, 199, 1-3. | 7.3 | 17 |
| 177 | Contrasting ecotoxicity effects of zinc on growth and photosynthesis in a neutrophilic alga (Chlamydomonas reinhardtii) and an extremophilic alga (Cyanidium caldarium). Chemosphere, 2014, 112, 402-411. | 8.2 | 17 |
| 178 | Growth and photosynthesis of Chlorella strains from polar, temperate and tropical freshwater environments under temperature stress. Journal of Oceanology and Limnology, 2018, 36, 1266-1279. | 1.3 | 17 |
| 179 | Ultraviolet radiation has no effect on respiratory oxygen consumption or enhanced post-illumination respiration in three species of microalgae. Journal of Photochemistry and Photobiology B: Biology, 2002, 68, 109-116. | 3.8 | 16 |
| 180 | INTERACTIONS AMONG PHOSPHATE UPTAKE, PHOTOSYNTHESIS, AND CHLOROPHYLL FLUORESCENCE IN NUTRIENTâ€LIMITED CULTURES OF THE CHLOROPHYTE MICROALGA <i>DUNALIELLA TERTIOLECTA</i><sup>1</sup>. Journal of Phycology, 2008, 44, 662-669. | 2.3 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | A red tide alga grown under ocean acidification upregulates its tolerance to lower pH by increasing its photophysiological functions. Biogeosciences, 2014, 11, 4829-4837. | 3.3 | 16 |
| 182 | Response of Growth and Photosynthesis of <i>Emiliania huxleyi</i> to Visible and <scp>UV</scp> Irradiances under Different Light Regimes. Photochemistry and Photobiology, 2015, 91, 343-349. | 2.5 | 16 |
| 183 | Cyanobacteria vs green algae: which group has the edge?. Journal of Experimental Botany, 2017, 68, 3697-3699. | 4.8 | 16 |
| 184 | Time for Multiple Extraction Methods in Proteomics? A Comparison of Three Protein Extraction Methods in the Eustigmatophyte Alga<i>Microchloropsis gaditana</i>CCMP526. OMICS A Journal of Integrative Biology, 2017, 21, 678-683. | 2.0 | 16 |
| 185 | Light acclimation and pH perturbations affect photosynthetic performance in Chlorella mass culture. Aquatic Biology, 2014, 22, 95-110. | 1.4 | 16 |
| 186 | Enhancement of diatom growth and phytoplankton productivity with reduced O2 availability is moderated by rising CO2. Communications Biology, 2022, 5, 54. | 4.4 | 16 |
| 187 | A seasonal study of the distribution of surface state variables in Liverpool Bay. v. summer. Journal of Experimental Marine Biology and Ecology, 1983, 73, 151-165. | 1.5 | 15 |
| 188 | Photo-acclimation to low lightâ€"Changes from growth to antenna size in the cyanobacterium Cylindrospermopsis raciborskii. Harmful Algae, 2015, 46, 11-17. | 4.8 | 15 |
| 189 | A perspective on the current status of approaches for early detection of microalgal grazing. Journal of Applied Phycology, 2020, 32, 3723-3733. | 2.8 | 15 |
| 190 | A seasonal study of the distribution of surface state variables in Liverpool Bay. IV. The spring bloom. Journal of Experimental Marine Biology and Ecology, 1982, 62, 93-115. | 1.5 | 14 |
| 191 | The ecophysiology of inorganic carbon assimilation by Durvillaea potatorum (Durvillaeales,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 | 1.4 | 14 |
| 192 | Characterising nutrient-induced fluorescence transients (NIFTs) in nitrogen-stressed Chlorella emersonii (Chlorophyta). Phycologia, 2007, 46, 503-512. | 1.4 | 14 |
| 193 | Fluorescence microscopy reveals variations in cellular composition during formation of akinetes in the cyanobacterium<i>Aphanizomenon ovalisporum</i>. European Journal of Phycology, 2009, 44, 309-317. | 2.0 | 14 |
| 194 | Environmental influences on akinete germination and development in Nodularia spumigena (Cyanobacteriaceae), isolated from the Gippsland Lakes, Victoria, Australia. Hydrobiologia, 2010, 649, 239-247. | 2.0 | 14 |
| 195 | Impacts of nitrogen limitation on the sinking rate of the coccolithophorid<i>Emiliania huxleyi</i>(Prymnesiophyceae). Phycologia, 2013, 52, 288-294. | 1.4 | 14 |
| 196 | Capacity of a temperate intertidal seagrass species to tolerate changing environmental conditions: Significance of light and tidal exposure. Ecological Indicators, 2017, 81, 578-586. | 6.3 | 14 |
| 197 | Consequences of the genotypic loss of mitochondrial Complex I in dinoflagellates and of phenotypic regulation of Complex I content in other photosynthetic organisms. Journal of Experimental Botany, 2017, 68, 2683-2692. | 4.8 | 14 |
| 198 | Effect of UV radiation on the expulsion of Symbiodinium from the coral Pocillopora damicornis. Journal of Photochemistry and Photobiology B: Biology, 2017, 166, 12-17. | 3.8 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Differential photosynthetic responses of marine planktonic and benthic diatoms to ultraviolet radiation under various temperature regimes. Biogeosciences, 2017, 14, 5029-5037. | 3.3 | 14 |
| 200 | Cell size influences inorganic carbon acquisition in artificially selected phytoplankton. New Phytologist, 2021, 229, 2647-2659. | 7.3 | 14 |
| 201 | Iron, nitrogen, phosphorus and zinc cycling and consequences for primary productivity in the oceans. , 0, , 247-272. | | 13 |
| 202 | Spatio-temporal variability in the photosynthetic characteristics of Zostera tasmanica measured by PAM. Aquatic Botany, 2006, 85, 21-28. | 1.6 | 13 |
| 203 | Probing the Influence of the Environment on Microalgae Using Infrared and Raman Spectroscopy. ACS Symposium Series, 2007, , 85-106. | 0.5 | 13 |
| 204 | Dark Respiration and Organic Carbon Loss. , 2016, , 129-140. | | 13 |
| 205 | Consequences of altered temperature regimes for emerging freshwater invertebrates. Aquatic Sciences, 2017, 79, 265-276. | 1.5 | 13 |
| 206 | Carbon acquisition characteristics of six microalgal species isolated from a subtropical reservoir: potential implications for species succession. Journal of Phycology, 2018, 54, 599-607. | 2.3 | 13 |
| 207 | Energizing the plasmalemma of marine photosynthetic organisms: the role of primary active transport. Journal of the Marine Biological Association of the United Kingdom, 2020, 100, 333-346. | 0.8 | 13 |
| 208 | A reduction in metabolism explains the tradeoffs associated with the longâ€term adaptation of phytoplankton to high CO<sub>2</sub> concentrations. New Phytologist, 2022, 233, 2155-2167. | 7.3 | 13 |
| 209 | Modification of fatty acid composition in halophilic antarctic microalgae. Phytochemistry, 1998, 49, 1249-1252. | 2.9 | 12 |
| 210 | Discrimination of cyanobacterial strains isolated from saline soils in Nakhon Ratchasima, Thailand using attenuated total reflectance FTIR spectroscopy. Journal of Biophotonics, 2010, 3, 534-541. | 2.3 | 12 |
| 211 | Incident Ultraviolet Irradiances Influence Physiology, Development and Settlement of Larva in the Coral <i>Pocillopora damicornis</i>. Photochemistry and Photobiology, 2016, 92, 293-300. | 2.5 | 12 |
| 212 | Photosynthetic physiology of <i>Scenedesmus</i> sp. (Chlorophyceae) under photoautotrophic and molasses-based heterotrophic and mixotrophic conditions. Phycologia, 2017, 56, 666-674. | 1.4 | 12 |
| 213 | Variation in cell size of the diatom Coscinodiscus granii influences photosynthetic performance and growth. Photosynthesis Research, 2018, 137, 41-52. | 2.9 | 12 |
| 214 | A metabolomic approach to investigate effects of ocean acidification on a polar microalga Chlorella sp.. Aquatic Toxicology, 2019, 217, 105349. | 4.0 | 12 |
| 215 | The lower limit of photon fluence rate for phototrophic growth: the significance of 'slippage' reactions. Plant, Cell and Environment, 1982, 5, 117-124. | 5.7 | 12 |
| 216 | A Novel Method for Extracting Protoplasts from Large Brown Algae. Journal of Experimental Botany, 1993, 44, 1587-1593. | 4.8 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Potential triggers of akinete differentiation in Nodularia spumigena (Cyanobacteriaceae) isolated from Australia. Hydrobiologia, 2011, 671, 165-180. | 2.0 | 11 |
| 218 | CO2 acquisition in Chlamydomonas acidophila is influenced mainly by CO2, not phosphorus, availability. Photosynthesis Research, 2014, 121, 213-221. | 2.9 | 11 |
| 219 | Nitrogen Limitation Decreases the Repair Capacity and Enhances Photoinhibition of Photosystem II in a Diatom. Photochemistry and Photobiology, 2021, 97, 745-752. | 2.5 | 11 |
| 220 | Environmental controls on the nitrogen-fixing cyanobacterium Nodularia spumigena in a temperate lagoon system in SE Australia. Marine Ecology - Progress Series, 2012, 461, 47-57. | 1.9 | 11 |
| 221 | State-transitions facilitate robust quantum yields and cause an over-estimation of electron transport in Dunaliella tertiolecta cells held at the CO2 compensation point and re-supplied with DIC. Photosynthesis Research, 2014, 119, 257-272. | 2.9 | 10 |
| 222 | Electron transport kinetics in the diazotrophic cyanobacterium Trichodesmium spp. grown across a range of light levels. Photosynthesis Research, 2015, 124, 45-56. | 2.9 | 10 |
| 223 | Altritol synthesis by Notheia anomala. Phytochemistry, 2001, 58, 389-394. | 2.9 | 9 |
| 224 | Photosynthetic characterization of two Nannochloropsis species and its relevance to outdoor cultivation. Journal of Applied Phycology, 2020, 32, 909-922. | 2.8 | 9 |
| 225 | Inorganic carbon uptake by an Antarctic sea-ice diatom, Nitzschia frigida. Polar Biology, 1996, 16, 95-99. | 1.2 | 9 |
| 226 | Non-photochemical quenching, a non-invasive probe for monitoring microalgal grazing: an early indicator of predation by <i>Oxyrrhis marina</i> and <i>Euplotes</i> sp.. Applied Phycology, 2020, 1, 20-31. | 1.3 | 9 |
| 227 | Physiological Responses of a Model Marine Diatom to Fast pH Changes: Special Implications of Coastal Water Acidification. PLoS ONE, 2015, 10, e0141163. | 2.5 | 9 |
| 228 | Evidence for a CO2 concentrating mechanism in Botrydiopsis (Tribophyceae). Phycologia, 1984, 23, 511-513. | 1.4 | 8 |
| 229 | The effects of copper and zinc on biomass and taxonomic composition of algal periphyton communities from the River Gharasou, Western Iran. Oceanological and Hydrobiological Studies, 2009, 38, 3-14. | 0.7 | 8 |
| 230 | Blooms of cyanobacteria in a temperate Australian lagoon system post and prior to European settlement. Biogeosciences, 2016, 13, 3677-3686. | 3.3 | 8 |
| 231 | The role of bioirrigation in sediment phosphorus dynamics and blooms of toxic cyanobacteria in a temperate lagoon. Environmental Modelling and Software, 2016, 86, 277-304. | 4.5 | 8 |
| 232 | Nutrient induced fluorescence transients (NIFTs) provide a rapid measure of P and C (co-)limitation in a green alga. European Journal of Phycology, 2016, 51, 47-58. | 2.0 | 8 |
| 233 | Temporal acclimation of Microchloropsis gaditana CCMP526 in response to hypersalinity. Bioresource Technology, 2018, 254, 23-30. | 9.6 | 8 |
| 234 | Photosynthetic and growth responses of <i>Nannochloropsis oculata</i> (Eustigmatophyceae) during batch cultures in relation to light intensity. Phycologia, 2018, 57, 492-502. | 1.4 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | High copper and UVR synergistically reduce the photochemical activity in the marine diatom Skeletonema costatum. Journal of Photochemistry and Photobiology B: Biology, 2019, 192, 97-102. | 3.8 | 8 |
| 236 | Physiological and biochemical responses of Thalassiosira weissflogii (diatom) to seawater acidification and alkalization. ICES Journal of Marine Science, 2019, 76, 1850-1859. | 2.5 | 8 |
| 237 | Non-photochemical quenching, a non-invasive probe for monitoring microalgal grazing: influence of grazing-mediated total ammonia-nitrogen. Applied Phycology, 2020, 1, 32-43. | 1.3 | 8 |
| 238 | Acquisition of Inorganic Carbon byÂMicroalgae and Cyanobacteria. , 2020, , 151-168. | | 8 |
| 239 | Impact of inhibitors of amino acid, protein, and RNA synthesis on C allocation in the diatom Chaetoceros muellerii: a FTIR approach. Algae, 2017, 32, 161-170. | 2.3 | 8 |
| 240 | Lower Salinity Leads to Improved Physiological Performance in the Coccolithophorid Emiliania huxleyi, Which Partly Ameliorates the Effects of Ocean Acidification. Frontiers in Marine Science, 2020, 7, . | 2.5 | 7 |
| 241 | Structural and Biochemical Features of Carbon Acquisition in Algae. Advances in Photosynthesis and Respiration, 2020, , 141-160. | 1.0 | 7 |
| 242 | Light-Driven Oxygen Consumption in the Water-Water Cycles and Photorespiration, and Light Stimulated Mitochondrial Respiration. Advances in Photosynthesis and Respiration, 2020, , 161-178. | 1.0 | 7 |
| 243 | Moving beyond methods: the need for a diverse programme in climate change research. Ecology Letters, 2014, 17, 125. | 6.4 | 6 |
| 244 | Elevated CO2 concentration alleviates UVR-induced inhibition of photosynthetic light reactions and growth in an intertidal red macroalga. Journal of Photochemistry and Photobiology B: Biology, 2020, 213, 112074. | 3.8 | 6 |
| 245 | Differential Responses of Growth and Photochemical Performance of Marine Diatoms to Ocean Warming and High Light Irradiance. Photochemistry and Photobiology, 2020, 96, 1074-1082. | 2.5 | 6 |
| 246 | FTIR combined with chemometric tools â€" a potential approach for early screening of grazers in microalgal cultures. Journal of Applied Phycology, 2021, 33, 2709-2722. | 2.8 | 6 |
| 247 | Elevated pCO 2 enhances under light but reduces in darkness the growth rate of a diatom, with implications for the fate of phytoplankton below the photic zone. Limnology and Oceanography, 2021, 66, 3630. | 3.1 | 6 |
| 248 | Evolution of Phytoplankton in Relation to Their Physiological Traits. Journal of Marine Science and Engineering, 2022, 10, 194. | 2.6 | 6 |
| 249 | The lower limit of photon fluence rate for phototrophic growth: the significance of â€˜slippageâ€™ reactions. Plant, Cell and Environment, 1982, 5, 117-124. | 5.7 | 5 |
| 250 | Intraâ€strain Variability in the Effects of Temperature on UVâ€B Sensitivity of Cyanobacteria. Photochemistry and Photobiology, 2019, 95, 306-314. | 2.5 | 5 |
| 251 | Elevated co<sub>2</sub> has Differential Effects on Five Species of Microalgae from a Subtropical Freshwater Lake: Possible Implications for Phytoplankton Species Composition. Journal of Phycology, 2021, 57, 324-334. | 2.3 | 5 |
| 252 | Diurnally fluctuating<i>p</i>CO2 enhances growth of a coastal strain of<i>Emiliania huxleyi</i>under future-projected ocean acidification conditions. ICES Journal of Marine Science, 2021, 78, 1301-1310. | 2.5 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | The effects of wind, phytoplankton and density discontinuities upon ammonia distributions in Liverpool Bay. Estuarine, Coastal and Shelf Science, 1985, 20, 463-475. | 2.1 | 4 |
| 254 | Inorganic carbon acquisition by Dunaliella tertiolecta (Chlorophyta) involves external carbonic anhydrase and direct HCO3 - utilization insensitive to the anion exchange inhibitor DIDS. European Journal of Phycology, 2001, 36, 81-88. | 2.0 | 4 |
| 255 | Chlorophyll fluorescence and ecophysiology: seeing red?. New Phytologist, 2006, 169, 449-451. | 7.3 | 4 |
| 256 | UV-A induced delayed development in the larvae of coral Seriatopora caliendrum. Journal of Photochemistry and Photobiology B: Biology, 2017, 167, 249-255. | 3.8 | 4 |
| 257 | Calcification Moderates the Increased Susceptibility to <scp>UV</scp> Radiation of the Coccolithophorid <i>Gephryocapsa oceanica</i> Grown under Elevated <scp>CO</scp><sub>2</sub> Concentration: Evidence Based on Calcified and Nonâ€calcified Cells. Photochemistry and Photobiology, 2018, 94, 994-1002. | 2.5 | 4 |
| 258 | Potential control of cyanobacterial blooms by using a floatingâ€mobile electrochemical system. Journal of Chemical Technology and Biotechnology, 2019, 94, 582-589. | 3.2 | 4 |
| 259 | What is the efficiency of electro-generation of chlorine with a solid polymer electrolyte assembly?. Chemical Engineering Journal, 2019, 364, 370-375. | 12.7 | 4 |
| 260 | Photosynthetic response and DNA mutation of tropical, temperate and polar Chlorella under short-term UVR stress. Polar Science, 2019, 20, 35-44. | 1.2 | 4 |
| 261 | The effect of CO2 concentration on DMSP production in Gephyrocapsa oceanica (Isochrysidales,) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.4 | 4 |
| 262 | Cell size has gene expression and biophysical consequences for cellular function. Perspectives in Phycology, 2019, 6, 81-94. | 1.9 | 4 |
| 263 | The effects of ultraviolet radiation on respiration and photosynthesis in two species of microalgae. Canadian Journal of Fisheries and Aquatic Sciences, 1997, 54, 687-696. | 1.4 | 4 |
| 264 | Using macroalgae to address UN Sustainable Development goals through CO<sub>2</sub> remediation and improvement of the aquaculture environment. Applied Phycology, 2022, 3, 360-367. | 1.3 | 4 |
| 265 | Relative effects of local and landscape factors on wetland algal biomass over a salinity gradient. Aquatic Sciences, 2010, 72, 191-202. | 1.5 | 3 |
| 266 | Algal Photosynthesis and Physiology. , 2016, , 1-19. | | 3 |
| 267 | Use of a chemical inhibitor as an alternative approach to enhance lipid production in<i>Chlamydomonas reinhardtii</i>(Chlorophyceae). Phycologia, 2017, 56, 159-166. | 1.4 | 3 |
| 268 | Effects of Temperature on The UVâ€B Sensitivity of Toxic Cyanobacteria <i>Microcystis aeruginosa</i> CS558 and <i>Anabaena circinalis</i> CS537. Photochemistry and Photobiology, 2020, 96, 936-940. | 2.5 | 3 |
| 269 | Increased CO2 Relevant to Future Ocean Acidification Alleviates the Sensitivity of a Red Macroalgae to Solar Ultraviolet Irradiance by Modulating the Synergy Between Photosystems II and I. Frontiers in Plant Science, 2021, 12, 726538. | 3.6 | 3 |
| 270 | Acquisition and Metabolism of Inorganic Nutrients by Dunaliella. , 2009, , 173-187. | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Commentary: Evaluating the Role of Seagrass in Cenozoic CO2 Variations. Frontiers in Environmental Science, 2017, 5, . | 3.3 | 2 |
| 272 | Ok Tedi copper mine, Papua New Guinea, stimulates algal growth in the Fly River. Sustainable Water Resources Management, 2019, 5, 425-437. | 2.1 | 2 |
| 273 | Data-Independent-Acquisition-Based Proteomic Approach towards Understanding the Acclimation Strategy of Oleaginous Microalga <i>Microchloropsis gaditana</i> CCMP526 in Hypersaline Conditions. ACS Omega, 2021, 6, 22151-22164. | 3.5 | 2 |
| 274 | Infrared Spectroscopy and Multivariate Statistics applied to Medical and Biological Problems. , 1999, , 475-478. | | 2 |
| 275 | Metal Pollution in Water: Toxicity, Tolerance and Use of Algae as a Potential Remediation Solution. Grand Challenges in Biology and Biotechnology, 2019, , 471-500. | 2.4 | 2 |
| 276 | Carbon Dioxide vs. Bicarbonate Utilisation. , 2021, , 153-164. | | 2 |
| 277 | The inhibitory effects of the antifouling compound Irgarol 1051 on the marine diatom Skeletonema sp. across a broad range of photosynthetically active radiation. Environmental Science and Pollution Research, 2021, 28, 48535-48542. | 5.3 | 1 |
| 278 | Physiological change in microalgae monitored using FT-IR spectroscopy. , 1999, , 449-450. | | 1 |
| 279 | Opportunities for, and limitations on, the functioning of very small cells, illustrated by the Chlorophyta and charophycean Streptophyta. Perspectives in Phycology, 2018, 5, 1-12. | 1.9 | 1 |
| 280 | Oxidative and anti-oxidative responses to metal toxicity in an extremophilic alga (<i>Cyanidium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 513-523. | 1.4 | 1 |
| 281 | Cyanobacteria-Dominated Phytoplankton in the Oligotrophic South China Sea Maintain Photosynthetic Potential Despite Diurnal Photoinactivation of PSII. Frontiers in Marine Science, 2021, 8, . | 2.5 | 1 |
| 282 | The stability of pH and dissolved inorganic carbon (DIC) in microalgal culture media. Phycologia, 2022, 61, 97-103. | 1.4 | 1 |
| 283 | Profiling of grazed cultures of the chlorophyte alga <i>Dunaliella tertiolecta</i> using an untargeted LCâ€"MS approach. Journal of Phycology, 2022, 58, 568-581. | 2.3 | 1 |
| 284 | A seasonal study of the distribution of surface state variables in Liverpool Bay. VI. Autumn. Journal of Experimental Marine Biology and Ecology, 1984, 77, 69-79. | 1.5 | 0 |
| 285 | AFestschriftin honour of Professor John A. Raven. Plant Ecology and Diversity, 2009, 2, 107-110. | 2.4 | 0 |
| 286 | Physiological and biochemical responses of Thalassiosira punctigera to nitrate limitation. Diatom Research, 2018, 33, 135-143. | 1.2 | 0 |
| 287 | Fluorescence Measurement Techniques. , 2021, , 231-238. | | 0 |
| 288 | Basic Concepts and Key Parameters of Chlorophyll Fluorescence. , 2021, , 221-229. | | 0 |