# Susana Agusti

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7437669/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 234 papers | 11,098 citations | 34105 52 h-index | 46799 89 g-index |
| 259 all docs | 259 docs citations | 259 times ranked | 11285 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Footprints of climate change in the Arctic marine ecosystem. Global Change Biology, 2011, 17, 1235-1249. | 9.5 | 612 |
| 2 | Nutrient and temperature control of the contribution of picoplankton to phytoplankton biomass and production. Limnology and Oceanography, 2000, 45, 591-600. | 3.1 | 577 |
| 3 | Large mesopelagic fishes biomass and trophic efficiency in the open ocean. Nature Communications, 2014, 5, 3271. | 12.8 | 561 |
| 4 | Rebuilding marine life. Nature, 2020, 580, 39-51. | 27.8 | 560 |
| 5 | Bacterioplankton community structure: Protists control net production and the proportion of active bacteria in a coastal marine community. Limnology and Oceanography, 1996, 41, 1169-1179. | 3.1 | 213 |
| 6 | Ubiquitous healthy diatoms in the deep sea confirm deep carbon injection by the biological pump. Nature Communications, 2015, 6, 7608. | 12.8 | 177 |
| 7 | Dissolved esterase activity as a tracer of phytoplankton lysis: Evidence of high phytoplankton lysis rates in the northwestern Mediterranean. Limnology and Oceanography, 1998, 43, 1836-1849. | 3.1 | 152 |
| 8 | Decadal trends in Red Sea maximum surface temperature. Scientific Reports, 2017, 7, 8144. | 3.3 | 151 |
| 9 | Footprints of climate change on Mediterranean Sea biota. Frontiers in Marine Science, 2015, 2, . | 2.5 | 145 |
| 10 | Growth and abundance of Synechococcus sp. in a Mediterranean Bay:seasonality and relationship with temperature. Marine Ecology - Progress Series, 1998, 170, 45-53. | 1.9 | 145 |
| 11 | Allometric scaling of plant life history. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15777-15780. | 7.1 | 136 |
| 12 | Nutrient removal from Chinese coastal waters by large-scale seaweed aquaculture. Scientific Reports, 2017, 7, 46613. | 3.3 | 131 |
| 13 | The Oligotrophic Ocean Is Heterotrophic. Annual Review of Marine Science, 2013, 5, 551-569. | 11.6 | 129 |
| 14 | Dissolved Organic Carbon Support of Respiration in the Dark Ocean. Science, 2002, 298, 1967-1967. | 12.6 | 120 |
| 15 | Picophytoplankton cell death induced by UV radiation: Evidence for oceanic Atlantic communities. Limnology and Oceanography, 2006, 51, 21-29. | 3.1 | 117 |
| 16 | Cell size dependent toxicity thresholds of polycyclic aromatic hydrocarbons to natural and cultured phytoplankton populations. Environmental Pollution, 2010, 158, 299-307. | 7.5 | 114 |
| 17 | Unveiling the role and life strategies of viruses from the surface to the dark ocean. Science Advances, 2017, 3, e1602565. | 10.3 | 113 |
| 18 | Cell viability in natural phytoplankton communities quantified by a membrane permeability probe. Limnology and Oceanography, 2002, 47, 818-828. | 3.1 | 110 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Deep ocean metagenomes provide insight into the metabolic architecture of bathypelagic microbial communities. Communications Biology, 2021, 4, 604. | 4.4 | 107 |
| 20 | Losses of salt marsh in China: Trends, threats and management. Estuarine, Coastal and Shelf Science, 2018, 214, 98-109. | 2.1 | 103 |
| 21 | Largeâ€scale variability in surface bacterial carbon demand and growth efficiency in the subtropical northeast Atlantic Ocean. Limnology and Oceanography, 2007, 52, 533-546. | 3.1 | 102 |
| 22 | Large-scale ocean connectivity and planktonic body size. Nature Communications, 2018, 9, 142. | 12.8 | 102 |
| 23 | Dissolved organic nitrogen and phosphorus pools and fluxes in the central Atlantic Ocean. Limnology and Oceanography, 1999, 44, 106-115. | 3.1 | 96 |
| 24 | Evidence for a heterotrophic subtropical northeast Atlantic. Limnology and Oceanography, 2001, 46, 425-428. | 3.1 | 94 |
| 25 | Tipping Elements in the Arctic Marine Ecosystem. Ambio, 2012, 41, 44-55. | 5.5 | 91 |
| 26 | Light Harvesting Among Photosynthetic Organisms. Functional Ecology, 1994, 8, 273. | 3.6 | 86 |
| 27 | Experimental test of bacteria-phytoplankton coupling in the Southern Ocean. Limnology and Oceanography, 2005, 50, 1844-1854. | 3.1 | 85 |
| 28 | Impact of elevated <scp>UVB</scp> radiation on marine biota: a metaâ€analysis. Global Ecology and Biogeography, 2013, 22, 131-144. | 5.8 | 85 |
| 29 | Alkaline phosphatase activities in the central Atlantic Ocean indicate large areas with phosphorus deficiency. Marine Ecology - Progress Series, 2003, 262, 43-53. | 1.9 | 84 |
| 30 | Warming Amplifies the Frequency of Harmful Algal Blooms with Eutrophication in Chinese Coastal Waters. Environmental Science & Technology, 2019, 53, 13031-13041. | 10.0 | 82 |
| 31 | Aerosol inputs enhance new production in the subtropical northeast Atlantic. Journal of Geophysical Research, 2006, 111, . | 3.3 | 81 |
| 32 | Allometric Scaling of Light Absorption and Scattering by Phytoplankton Cells. Canadian Journal of Fisheries and Aquatic Sciences, 1991, 48, 763-767. | 1.4 | 78 |
| 33 | Light absorption by marine macrophytes. Oecologia, 1994, 98, 121-129. | 2.0 | 76 |
| 34 | Effect of nutrient supply on the biomass structure of planktonic communities: an experimental test on a Mediterranean coastal community. Marine Ecology - Progress Series, 2000, 206, 87-95. | 1.9 | 76 |
| 35 | Decrease in the abundance and viability of oceanic phytoplankton due to trace levels of complex mixtures of organic pollutants. Chemosphere, 2010, 81, 161-168. | 8.2 | 75 |
| 36 | B vitamins as regulators of phytoplankton dynamics. Eos, 2006, 87, 593. | 0.1 | 71 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The role of arctic zooplankton in biogeochemical cycles: respiration and excretion of ammonia and phosphate during summer. Polar Biology, 2010, 33, 1719-1731. | 1.2 | 70 |
| 38 | Viability and niche segregation of Prochlorococcus and Synechococcus cells across the Central Atlantic Ocean. Aquatic Microbial Ecology, 2004, 36, 53-59. | 1.8 | 67 |
| 39 | Bacterial assemblage structure and carbon metabolism along a productivity gradient in the NE Atlantic Ocean. Aquatic Microbial Ecology, 2007, 46, 43-53. | 1.8 | 67 |
| 40 | Strong seasonality in phytoplankton cell lysis in the NW Mediterranean littoral. Limnology and Oceanography, 2000, 45, 940-947. | 3.1 | 65 |
| 41 | Temperature dependence of CO2-enhanced primary production in the European Arctic Ocean. Nature Climate Change, 2015, 5, 1079-1082. | 18.8 | 65 |
| 42 | Euglena as a potential natural source of value-added metabolites. A review. Algal Research, 2019, 37, 154-159. | 4.6 | 65 |
| 43 | Response of a Mediterranean phytoplankton community to increased nutrient inputs:a mesocosm experiment. Marine Ecology - Progress Series, 2000, 195, 61-70. | 1.9 | 64 |
| 44 | Algal cell size and the maximum density and biomass of phytoplankton1. Limnology and Oceanography, 1987, 32, 983-986. | 3.1 | 63 |
| 45 | Nitrate uptake and diffusive nitrate supply in the Central Atlantic. Limnology and Oceanography, 1999, 44, 116-126. | 3.1 | 63 |
| 46 | Fast adaptation of tropical diatoms to increased warming with trade-offs. Scientific Reports, 2018, 8, 17771. | 3.3 | 63 |
| 47 | Seaweed farms provide refugia from ocean acidification. Science of the Total Environment, 2021, 776, 145192. | 8.0 | 61 |
| 48 | Food-web structure and elemental (C, N and P) fluxes in the eastern tropical North Atlantic. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 2295-2321. | 1.4 | 60 |
| 49 | High atmosphere-ocean exchange of organic carbon in the NE subtropical Atlantic. Geophysical Research Letters, 2005, 32, . | 4.0 | 60 |
| 50 | Solar Radiation-induced Mortality of Marine Pico-phytoplankton in the Oligotrophic Oceanâ€. Photochemistry and Photobiology, 2007, 83, 793-801. | 2.5 | 60 |
| 51 | Effect of ice melting on bacterial carbon fluxes channelled by viruses and protists in the Arctic Ocean. Polar Biology, 2010, 33, 1695-1707. | 1.2 | 60 |
| 52 | Phytoplankton lysis predicts dissolved organic carbon release in marine plankton communities. Biogeosciences, 2013, 10, 1259-1264. | 3.3 | 60 |
| 53 | Phytoplankton chlorophyll a distribution and water column stability in the central Atlantic Ocean. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 1999, 22, 193-203. | 0.7 | 58 |
| 54 | Ocean warming compresses the three-dimensional habitat of marine life. Nature Ecology and Evolution, 2020, 4, 109-114. | 7.8 | 58 |

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|---|---|---|---|
| 55 | Large deep-sea zooplankton biomass mirrors primary production in the global ocean. Nature Communications, 2020, 11, 6048. | 12.8 | 58 |
| 56 | Synechococcus and Prochlorococcus cell death induced by UV radiation and the penetration of lethal UVR in the Mediterranean Sea. Marine Ecology - Progress Series, 2010, 399, 27-37. | 1.9 | 57 |
| 57 | Controls on planktonic metabolism in the Bay of Blanes, northwestern Mediterranean littoral. Limnology and Oceanography, 2004, 49, 2162-2170. | 3.1 | 55 |
| 58 | Metatranscriptomes reveal functional variation in diatom communities from the Antarctic Peninsula. ISME Journal, 2015, 9, 2275-2289. | 9.8 | 55 |
| 59 | Uncoupled distributions of transparent exopolymer particles (TEP) and dissolved carbohydrates in the Southern Ocean. Marine Chemistry, 2009, 115, 59-65. | 2.3 | 54 |
| 60 | Snow cover affects ice algal pigment composition in the coastal Arctic Ocean during spring. Marine Ecology - Progress Series, 2013, 474, 89-104. | 1.9 | 53 |
| 61 | Experimental evaluation of the warming effect on viral, bacterial and protistan communities in two contrasting Arctic systems. Aquatic Microbial Ecology, 2013, 70, 17-32. | 1.8 | 53 |
| 62 | Control of air-sea CO2disequilibria in the subtropical NE Atlantic by planktonic metabolism under the ocean skin. Geophysical Research Letters, 2005, 32, . | 4.0 | 50 |
| 63 | Effects of dust deposition and river discharges on trace metal composition of Trichodesmium spp. in the tropical and subtropical North Atlantic Ocean. Limnology and Oceanography, 2006, 51, 1755-1761. | 3.1 | 49 |
| 64 | Oxygen supersaturation protects coastal marine fauna from ocean warming. Science Advances, 2019, 5, eaax1814. | 10.3 | 49 |
| 65 | Primary marine aerosol emissions from the Mediterranean Sea during pre-bloom and oligotrophic conditions: correlations to seawater chlorophyll <i>a</i> from a mesocosm study. Atmospheric Chemistry and Physics, 2015, 15, 7961-7976. | 4.9 | 47 |
| 66 | Response of Mediterranean Synechococcus growth and loss rates to experimental nutrient inputs. Marine Ecology - Progress Series, 2000, 206, 97-106. | 1.9 | 47 |
| 67 | An upper limit to the abundance of aquatic organisms. Oecologia, 1987, 74, 272-276. | 2.0 | 46 |
| 68 | A comparative study of responses in plankton food web structure and function in contrasting European coastal waters exposed to experimental nutrient addition. Limnology and Oceanography, 2006, 51, 488-503. | 3.1 | 46 |
| 69 | Distribution and photoreactivity of chromophoric dissolved organic matter in the Antarctic Peninsula (Southern Ocean). Marine Chemistry, 2010, 118, 129-139. | 2.3 | 46 |
| 70 | Respiration in the mesopelagic and bathypelagic zones of the oceans. , 2005, , 181-205. | | 46 |
| 71 | Experimentally determined temperature thresholds for Arctic plankton community metabolism. Biogeosciences, 2013, 10, 357-370. | 3.3 | 45 |
| 72 | Projected Changes in Photosynthetic Picoplankton in a Warmer Subtropical Ocean. Frontiers in Marine Science, 2019, 5, . | 2.5 | 45 |

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|---|---|---|---|
| 73 | Respiration in the dark ocean. Geophysical Research Letters, 2003, 30, . | 4.0 | 44 |
| 74 | Cell size dependence of additive versus synergetic effects of UV radiation and PAHs on oceanic phytoplankton. Environmental Pollution, 2011, 159, 1307-1316. | 7.5 | 44 |
| 75 | Toxic thresholds of cadmium and lead to oceanic phytoplankton: Cell size and ocean basinâ€“dependent effects. Environmental Toxicology and Chemistry, 2012, 31, 1887-1894. | 4.3 | 44 |
| 76 | Viruses and Protists Induced-mortality of Prokaryotes around the Antarctic Peninsula during the Austral Summer. Frontiers in Microbiology, 2017, 8, 241. | 3.5 | 44 |
| 77 | Silicic acid limitation drives bloom termination and potential carbon sequestration in an Arctic bloom. Scientific Reports, 2019, 9, 8149. | 3.3 | 43 |
| 78 | Contrasting patterns of phytoplankton viability in the subtropical NE Atlantic Ocean. Aquatic Microbial Ecology, 2006, 43, 67-78. | 1.8 | 43 |
| 79 | Patterns in phytoplankton community structure in Florida lakes. Limnology and Oceanography, 1992, 37, 155-161. | 3.1 | 42 |
| 80 | Comparative functional plant ecology: rationale and potentials. Trends in Ecology and Evolution, 1995, 10, 418-421. | 8.7 | 42 |
| 81 | Comparative infection modeling and control of COVID-19 transmission patterns in China, South Korea, Italy and Iran. Science of the Total Environment, 2020, 747, 141447. | 8.0 | 42 |
| 82 | Plankton metabolism and dissolved organic carbon use in the Bay of Palma, NW Mediterranean Sea. Aquatic Microbial Ecology, 2004, 37, 47-54. | 1.8 | 41 |
| 83 | Stable Isotope (Î´13C, Î´15N, Î´18O, Î´D) Composition and Nutrient Concentration of Red Sea Primary Producers. Frontiers in Marine Science, 2018, 5, . | 2.5 | 41 |
| 84 | Latitudinal changes of copepod egg production rates in Atlantic waters:temperature and food availability as the main driving factors. Marine Ecology - Progress Series, 1999, 181, 155-162. | 1.9 | 41 |
| 85 | Phytoplankton community structure during the record Arctic ice-melting of summer 2007. Polar Biology, 2010, 33, 1709-1717. | 1.2 | 40 |
| 86 | Phototoxic effects of PAH and UVA exposure on molecular responses and developmental success in coral larvae. Aquatic Toxicology, 2018, 198, 165-174. | 4.0 | 40 |
| 87 | Major imprint of surface plankton on deep ocean prokaryotic structure and activity. Molecular Ecology, 2020, 29, 1820-1838. | 3.9 | 39 |
| 88 | Light absorption by cyanobacteria: Implications of the colonial growth form. Limnology and Oceanography, 1992, 37, 434-441. | 3.1 | 38 |
| 89 | Prochlorococcus as a Possible Source for Transparent Exopolymer Particles (TEP). Frontiers in Microbiology, 2017, 8, 709. | 3.5 | 37 |
| 90 | Bacterial activity and diffusive nutrient supply in the oligotrophic Central Atlantic Ocean. Aquatic Microbial Ecology, 2009, 56, 1-12. | 1.8 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Sensitivity and Acclimation of Three Canopy-Forming Seaweeds to UVB Radiation and Warming. PLoS ONE, 2015, 10, e0143031. | 2.5 | 36 |
| 92 | Light absorption by seagrass Posidonia oceanica leaves. Marine Ecology - Progress Series, 1992, 86, 201-204. | 1.9 | 36 |
| 93 | Light environment within dense algal populations: cell size influences on self-shading. Journal of Plankton Research, 1991, 13, 863-871. | 1.8 | 35 |
| 94 | Abundance, frequency of dividing cells and growth rates of Synechococcus sp. (cyanobacteria) in the stratified Northwest Mediterranean Sea. Journal of Plankton Research, 1997, 19, 1599-1615. | 1.8 | 35 |
| 95 | Effect of ultraviolet radiation (UVR) on the life stages of fish. Reviews in Fish Biology and Fisheries, 2020, 30, 335-372. | 4.9 | 35 |
| 96 | Evidence for surface organic matter modulation of air-sea CO<sub>2</sub> gas exchange. Biogeosciences, 2009, 6, 1105-1114. | 3.3 | 34 |
| 97 | Effects of temperature on the metabolic stoichiometry of Arctic zooplankton. Biogeosciences, 2013, 10, 689-697. | 3.3 | 34 |
| 98 | Phyto- and bacterioplankton abundance and viability and their relationship with phosphorus across the Mediterranean Sea. Aquatic Microbial Ecology, 2010, 60, 175-191. | 1.8 | 34 |
| 99 | Latitudinal variability in phosphate uptake in the Central Atlantic. Marine Ecology - Progress Series, 2000, 194, 283-294. | 1.9 | 34 |
| 100 | Nutrient dynamics and ecosystem metabolism in the Bay of Blanes (NW Mediterranean). Biogeochemistry, 2005, 73, 303-323. | 3.5 | 33 |
| 101 | Toxicity of natural mixtures of organic pollutants in temperate and polar marine phytoplankton. Science of the Total Environment, 2016, 571, 34-41. | 8.0 | 33 |
| 102 | The influence of growth conditions on the size dependence of maximal algal density and biomass. Limnology and Oceanography, 1989, 34, 1104-1108. | 3.1 | 32 |
| 103 | The Red Sea: Environmental Gradients Shape a Natural Laboratory in a Nascent Ocean. Coral Reefs of the World, 2019, , 1-10. | 0.7 | 32 |
| 104 | Cell death in lake phytoplankton communities. Freshwater Biology, 2006, 51, 1496-1506. | 2.4 | 31 |
| 105 | Biogenic silica production and diatom dynamics in the Svalbard region during spring. Biogeosciences, 2018, 15, 6503-6517. | 3.3 | 31 |
| 106 | Latitudinal Gradient of UV Attenuation Along the Highly Transparent Red Sea Basin. Photochemistry and Photobiology, 2019, 95, 1267-1279. | 2.5 | 31 |
| 107 | Phytoplankton abundance in Florida lakes: Evidence for the frequent lack of nutrient limitation. Limnology and Oceanography, 1990, 35, 181-187. | 3.1 | 30 |
| 108 | Warming and CO2 Enhance Arctic Heterotrophic Microbial Activity. Frontiers in Microbiology, 2019, 10, 494. | 3.5 | 30 |

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|---|---|---|---|
| 109 | Towards a unifying pan-arctic perspective: A conceptual modelling toolkit. Progress in Oceanography, 2020, 189, 102455. | 3.2 | 30 |
| 110 | Exploring the relationship between active bacterioplankton and phytoplankton in the Southern Ocean. Aquatic Microbial Ecology, 2008, 52, 99-106. | 1.8 | 30 |
| 111 | Tropical seagrass Halophila stipulacea shifts thermal tolerance during Mediterranean invasion. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20193001. | 2.6 | 29 |
| 112 | Response of bacterial grazing rates to experimental manipulation of an Antarctic coastal nanoflagellate community. Aquatic Microbial Ecology, 2004, 36, 41-52. | 1.8 | 29 |
| 113 | Autochthonous and allochthonous contributions of organic carbon to microbial food webs in Svalbard fjords. Limnology and Oceanography, 2017, 62, 1307-1323. | 3.1 | 28 |
| 114 | Phototoxic effects of two common marine fuels on the settlement success of the coral Acropora tenuis. Scientific Reports, 2018, 8, 8635. | 3.3 | 28 |
| 115 | Partitioning particulate light absorption: A budget for a Mediterranean bay. Limnology and Oceanography, 1998, 43, 236-244. | 3.1 | 26 |
| 116 | Short-term effects of gamma ray bursts on oceanic photosynthesis. Astrophysics and Space Science, 2010, 330, 211-217. | 1.4 | 26 |
| 117 | Experimental Assessment of Temperature Thresholds for Arctic Phytoplankton Communities. Estuaries and Coasts, 2015, 38, 873-885. | 2.2 | 26 |
| 118 | Cell viability, pigments and photosynthetic performance of Arctic phytoplankton in contrasting ice-covered and open-water conditions during the spring-summer transition. Marine Ecology - Progress Series, 2016, 543, 89-106. | 1.9 | 26 |
| 119 | Microbial plankton abundance and heterotrophic activity across the Central Atlantic Ocean. Progress in Oceanography, 2008, 79, 83-94. | 3.2 | 25 |
| 120 | Forcing of dissolved organic carbon release by phytoplankton by anticyclonic mesoscale eddies in the subtropical NE Atlantic Ocean. Biogeosciences, 2013, 10, 2129-2143. | 3.3 | 25 |
| 121 | Thermal Thresholds of Phytoplankton Growth in Polar Waters and Their Consequences for a Warming Polar Ocean. Frontiers in Marine Science, 2017, 4, . | 2.5 | 25 |
| 122 | Episodic Arctic CO2 Limitation in the West Svalbard Shelf. Frontiers in Marine Science, 2018, 5, . | 2.5 | 25 |
| 123 | Accelerated burial of petroleum hydrocarbons in Arabian Gulf blue carbon repositories. Science of the Total Environment, 2019, 669, 205-212. | 8.0 | 25 |
| 124 | Seasonality of marine plastic abundance in central Red Sea pelagic waters. Science of the Total Environment, 2019, 688, 536-541. | 8.0 | 24 |
| 125 | Characterization of the CO<sub>2</sub> System in a Coral Reef, a Seagrass Meadow, and a Mangrove Forest in the Central Red Sea. Journal of Geophysical Research: Oceans, 2019, 124, 7513-7528. | 2.6 | 24 |
| 126 | Areal Extent, Species Composition, and Spatial Distribution of Coastal Saltmarshes in China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7085-7094. | 4.9 | 24 |

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|---|---|---|---|
| 127 | Microplankton respiration and net community metabolism on the NW Mediterranean coast. Aquatic Microbial Ecology, 1996, 10, 165-172. | 1.8 | 24 |
| 128 | Effect of N:P ratios on response of Mediterranean picophytoplankton to experimental nutrient inputs. Aquatic Microbial Ecology, 2004, 34, 57-67. | 1.8 | 24 |
| 129 | Antarctic krill as a source of dissolved organic carbon to the Antarctic ecosystem. Limnology and Oceanography, 2011, 56, 521-528. | 3.1 | 23 |
| 130 | Sources of uncertainty in assessment of marine phytoplankton communities. Hydrobiologia, 2013, 704, 253-264. | 2.0 | 23 |
| 131 | Unraveling the Seasonality of UV Exposure in Reef Waters of a Rapidly Warming (Sub-)tropical Sea. Frontiers in Marine Science, 2020, 7, . | 2.5 | 23 |
| 132 | Loss-controlled phytoplankton production in nutrient-poor littoral waters of the NW Mediterranean:in situ experimental evidence. Marine Ecology - Progress Series, 1996, 130, 213-219. | 1.9 | 23 |
| 133 | Comparative analysis of food webs based on flow networks: effects of nutrient supply on structure and function of coastal plankton communities. Continental Shelf Research, 2001, 21, 2043-2053. | 1.8 | 22 |
| 134 | Bacterial production and losses to predators along an open ocean productivity gradient in the Subtropical North East Atlantic Ocean. Journal of Plankton Research, 2014, 36, 198-213. | 1.8 | 22 |
| 135 | Consequences of UV-enhanced community respiration for plankton metabolic balance. Limnology and Oceanography, 2014, 59, 223-232. | 3.1 | 22 |
| 136 | CDOM Sources and Photobleaching Control Quantum Yields for Oceanic DMS Photolysis. Environmental Science & Technology, 2016, 50, 13361-13370. | 10.0 | 22 |
| 137 | Abundance of Antarctic picophytoplankton and their response to light and nutrient manipulation. Aquatic Microbial Ecology, 2002, 29, 161-172. | 1.8 | 22 |
| 138 | UV sensitivity of planktonic net community production in ocean surface waters. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 929-936. | 3.0 | 21 |
| 139 | Tolerance of polar phytoplankton communities to metals. Environmental Pollution, 2014, 185, 188-195. | 7.5 | 21 |
| 140 | Effects of ultraviolet radiation on growth, cell death and the standing stock of Antarctic phytoplankton. Aquatic Microbial Ecology, 2010, 59, 151-160. | 1.8 | 21 |
| 141 | On the relative constancy of iodate and totalâ€iodine concentrations accompanying phytoplankton blooms initiated in mesocosm experiments in Antarctica. Limnology and Oceanography, 2003, 48, 1569-1574. | 3.1 | 20 |
| 142 | Oceanâ€“atmosphere exchange of organic carbon and CO<sub>2</sub> surrounding the Antarctic Peninsula. Biogeosciences, 2014, 11, 2755-2770. | 3.3 | 20 |
| 143 | The 13C method as a robust alternative to 14C-based measurements of primary productivity in the Mediterranean Sea. Journal of Plankton Research, 2018, 40, 544-554. | 1.8 | 20 |
| 144 | Experimental induction of a large phytoplankton bloom in Antarctic coastal waters. Marine Ecology - Progress Series, 2000, 206, 73-85. | 1.9 | 20 |

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|---|---|---|---|
| 145 | Threshold of gross primary production for planktonic metabolic balance in the Southern Ocean: An experimental test. Limnology and Oceanography, 2005, 50, 1334-1339. | 3.1 | 19 |
| 146 | PAHs sensitivity of picophytoplankton populations in the Red Sea. Environmental Pollution, 2018, 239, 607-616. | 7.5 | 19 |
| 147 | Resource (Light and Nitrogen) and Density-Dependence of Seaweed Growth. Frontiers in Marine Science, 2019, 6, . | 2.5 | 19 |
| 148 | Size plasticity of freshwater phytoplankton: Implications for community structure. Limnology and Oceanography, 1990, 35, 1846-1851. | 3.1 | 18 |
| 149 | Experimental assessment of cumulative temperature and UV-B radiation effects on Mediterranean plankton metabolism. Frontiers in Marine Science, 2015, 2, . | 2.5 | 17 |
| 150 | Effects of UVB radiation on net community production in the upper global ocean. Global Ecology and Biogeography, 2017, 26, 54-64. | 5.8 | 17 |
| 151 | Oligotrophication and Metabolic Slowing-Down of a NW Mediterranean Coastal Ecosystem. Frontiers in Marine Science, 2017, 4, . | 2.5 | 17 |
| 152 | Biomass partitioning in Florida phytoplankton communities. Journal of Plankton Research, 1991, 13, 239-245. | 1.8 | 16 |
| 153 | Distribution and contribution of major phytoplankton groups to carbon cycling across contrasting conditions of the subtropical northeast Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 1115-1129. | 1.4 | 16 |
| 154 | DIEL IN SITU PICOPHYTOPLANKTON CELL DEATH CYCLES COUPLED WITH CELL DIVISION<sup>1</sup>. Journal of Phycology, 2011, 47, 1247-1257. | 2.3 | 16 |
| 155 | High Mortality of Red Sea Zooplankton under Ambient Solar Radiation. PLoS ONE, 2014, 9, e108778. | 2.5 | 16 |
| 156 | Temperature dependence of planktonic metabolism in the subtropical North Atlantic Ocean. Biogeosciences, 2014, 11, 4529-4540. | 3.3 | 16 |
| 157 | The percentage of living bacterial cells related to organic carbon release from senescent oceanic phytoplankton. Biogeosciences, 2014, 11, 6377-6387. | 3.3 | 16 |
| 158 | PAHs reduce DNA synthesis and delay cell division in the widespread primary producer Prochlorococcus. Environmental Pollution, 2015, 196, 147-155. | 7.5 | 16 |
| 159 | Increasing temperature within thermal limits compensates negative ultravioletâ€B radiation effects in terrestrial and aquatic organisms. Global Ecology and Biogeography, 2019, 28, 1695-1711. | 5.8 | 16 |
| 160 | Underestimated PAH accumulation potential of blue carbon vegetation: Evidence from sedimentary records of saltmarsh and mangrove in Yueqing Bay, China. Science of the Total Environment, 2022, 817, 152887. | 8.0 | 16 |
| 161 | Extending the cell digestion assay to quantify dead phytoplankton cells in cold and polar waters. Limnology and Oceanography: Methods, 2008, 6, 659-666. | 2.0 | 15 |
| 162 | Polar marine biology science in Portugal and Spain: Recent advances and future perspectives. Journal of Sea Research, 2013, 83, 9-29. | 1.6 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Prevalence of strong vertical CO<sub>2</sub> and O<sub>2</sub> variability in the top meters of the ocean. Global Biogeochemical Cycles, 2013, 27, 941-949. | 4.9 | 15 |
| 164 | Contrasting Sensitivity of Marine Biota to UV-B Radiation Between Southern and Northern Hemispheres. Estuaries and Coasts, 2015, 38, 1126-1133. | 2.2 | 15 |
| 165 | Patterns and Drivers of UV Absorbing Chromophoric Dissolved Organic Matter in the Euphotic Layer of the Open Ocean. Frontiers in Marine Science, 2019, 6, . | 2.5 | 15 |
| 166 | Free-living dinoflagellates of the central Red Sea, Saudi Arabia: Variability, new records and potentially harmful species. Marine Pollution Bulletin, 2019, 141, 629-648. | 5.0 | 15 |
| 167 | Longâ€term exposure to increasing temperature can offset predicted losses in marine food quality (fatty acids) caused by ocean warming. Evolutionary Applications, 2020, 13, 2497-2506. | 3.1 | 15 |
| 168 | Picocyanobacteria Community and Cyanophage Infection Responses to Nutrient Enrichment in a Mesocosms Experiment in Oligotrophic Waters. Frontiers in Microbiology, 2020, 11, 1153. | 3.5 | 15 |
| 169 | Comparative sensitivity of the early life stages of a coral to heavy fuel oil and UV radiation. Science of the Total Environment, 2021, 781, 146676. | 8.0 | 15 |
| 170 | Growth rates of diatoms from coastal Antarctic waters estimated by in situ dialysis incubation. Marine Ecology - Progress Series, 1996, 144, 237-245. | 1.9 | 15 |
| 171 | Growth and grazing losses of prokaryotes in the central Atlantic Ocean. Journal of Plankton Research, 2005, 27, 1055-1066. | 1.8 | 14 |
| 172 | Impacts of climate warming on polar marine and freshwater ecosystems. Polar Biology, 2010, 33, 1595-1598. | 1.2 | 14 |
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