

# Guang Gao

## List of Publications by Year in descending order

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66  
papers

2,702  
citations

172457

29  
h-index

189892

50  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rising CO <sub>2</sub> and increased light exposure synergistically reduce marine primary productivity. <i>Nature Climate Change</i> , 2012, 2, 519-523.	18.8	307
2	Resolving the variability of CDOM fluorescence to differentiate the sources and fate of DOM in Lake Taihu and its tributaries. <i>Chemosphere</i> , 2011, 82, 145-155.	8.2	209
3	The accumulation of microplastics in fish from an important fish farm and mariculture area, Haizhou Bay, China. <i>Science of the Total Environment</i> , 2019, 696, 133948.	8.0	170
4	Eutrophication and warming-driven green tides ( <i>Ulva rigida</i> ) are predicted to increase under future climate change scenarios. <i>Marine Pollution Bulletin</i> , 2017, 114, 439-447.	5.0	138
5	Effects of Ocean Acidification on Marine Photosynthetic Organisms Under the Concurrent Influences of Warming, UV Radiation, and Deoxygenation. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	136
6	Changes in morphological plasticity of <i>Ulva prolifera</i> under different environmental conditions: A laboratory experiment. <i>Harmful Algae</i> , 2016, 59, 51-58.	4.8	95
7	Microplastics in bloom-forming macroalgae: Distribution, characteristics and impacts. <i>Journal of Hazardous Materials</i> , 2020, 397, 122752.	12.4	81
8	Physiological response of a golden tide alga (&lt;i>Sargassum muticum&lt;/i>) to the interaction of ocean acidification and phosphorus enrichment. <i>Biogeosciences</i> , 2017, 14, 671-681.	3.3	72
9	Spatio-temporal features of microplastics pollution in macroalgae growing in an important mariculture area, China. <i>Science of the Total Environment</i> , 2020, 719, 137490.	8.0	72
10	&lt;i>Ulva rigida&lt;/i> in the future ocean: potential for carbon capture, bioremediation and biomethane production. <i>GCB Bioenergy</i> , 2018, 10, 39-51.	5.6	64
11	Microplastics in specific tissues of wild sea urchins along the coastal areas of northern China. <i>Science of the Total Environment</i> , 2020, 728, 138660.	8.0	63
12	Current understanding and challenges for aquatic primary producers in a world with rising micro- and nano-plastic levels. <i>Journal of Hazardous Materials</i> , 2021, 406, 124685.	12.4	62
13	Effects of ocean warming and acidification, combined with nutrient enrichment, on chemical composition and functional properties of <i>Ulva rigida</i> . <i>Food Chemistry</i> , 2018, 258, 71-78.	8.2	60
14	Expected CO <sub>2</sub> -induced ocean acidification modulates copper toxicity in the green tide alga <i>Ulva prolifera</i> . <i>Environmental and Experimental Botany</i> , 2017, 135, 63-72.	4.2	58
15	Differential Impacts of Solar UV Radiation on Photosynthetic Carbon Fixation from the Coastal to Offshore Surface Waters in the South China Sea. <i>Photochemistry and Photobiology</i> , 2011, 87, 329-334.	2.5	55
16	Using macroalgae as biofuel: current opportunities and challenges. <i>Botanica Marina</i> , 2020, 63, 355-370.	1.2	55
17	Nitrogen availability modulates the effects of ocean acidification on biomass yield and food quality of a marine crop <i>Pyropia yezoensis</i> . <i>Food Chemistry</i> , 2019, 271, 623-629.	8.2	48
18	Global warming interacts with ocean acidification to alter PSII function and protection in the diatom <i>Thalassiosira weissflogii</i> . <i>Environmental and Experimental Botany</i> , 2018, 147, 95-103.	4.2	46

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19	The potential of seaweed cultivation to achieve carbon neutrality and mitigate deoxygenation and eutrophication. <i>Environmental Research Letters</i> , 2022, 17, 014018.	5.2	44
20	An Ocean Acidification Acclimatised Green Tide Alga Is Robust to Changes of Seawater Carbon Chemistry but Vulnerable to Light Stress. <i>PLoS ONE</i> , 2016, 11, e0169040.	2.5	43
21	Physiological acclimation of the green tidal alga <i>Ulva prolifera</i> to a fast-changing environment. <i>Marine Environmental Research</i> , 2018, 137, 1-7.	2.5	41
22	A two-stage model with nitrogen and silicon limitation enhances lipid productivity and biodiesel features of the marine bloom-forming diatom <i>Skeletonema costatum</i> . <i>Bioresource Technology</i> , 2019, 289, 121717.	9.6	41
23	The acclimation process of phytoplankton biomass, carbon fixation and respiration to the combined effects of elevated temperature and pCO <sub>2</sub> in the northern South China Sea. <i>Marine Pollution Bulletin</i> , 2017, 118, 213-220.	5.0	40
24	Ocean acidification and nutrient limitation synergistically reduce growth and photosynthetic performances of a green tide alga &lt;i>Ulva linza&lt;/i>. <i>Biogeosciences</i> , 2018, 15, 3409-3420.	3.3	39
25	Impacts of ocean acidification under multiple stressors on typical organisms and ecological processes. <i>Marine Life Science and Technology</i> , 2020, 2, 279-291.	4.6	38
26	Reproductive sterility increases the capacity to exploit the green seaweed <i>Ulva rigida</i> for commercial applications. <i>Algal Research</i> , 2017, 24, 64-71.	4.6	37
27	Linking bacterial community shifts with changes in the dissolved organic matter pool in a eutrophic lake. <i>Science of the Total Environment</i> , 2020, 719, 137387.	8.0	35
28	RESPONSES TO SOLAR UV RADIATION OF THE DIATOM <i>SKELETONEMA COSTATUM</i> (BACILLARIOPHYCEAE) GROWN AT DIFFERENT Zn<sup>2+</sup> CONCENTRATIONS<sup>1</sup>. <i>Journal of Phycology</i> , 2009, 45, 119-129.	2.3	32
29	Growth and photosynthesis of a diatom grown under elevated CO <sub>2</sub> in the presence of solar UV radiation. <i>Fundamental and Applied Limnology</i> , 2012, 180, 279-290.	0.7	32
30	Conditions optimising on the yield of biomass, total lipid, and valuable fatty acids in two strains of <i>Skeletonema menzeli</i> . <i>Food Chemistry</i> , 2016, 194, 723-732.	8.2	31
31	Intrinsic and extrinsic control of reproduction in the green tide-forming alga, <i>Ulva rigida</i> . <i>Environmental and Experimental Botany</i> , 2017, 139, 14-22.	4.2	31
32	Increased CO <sub>2</sub> exacerbates the stress of ultraviolet radiation on photosystem II function in the diatom <i>Thalassiosira weissflogii</i> . <i>Environmental and Experimental Botany</i> , 2018, 156, 96-105.	4.2	30
33	Impacts of Marine Heatwaves on Algal Structure and Carbon Sequestration in Conjunction With Ocean Warming and Acidification. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	29
34	Physiological response of a red tide alga ( <i>Skeletonema costatum</i> ) to nitrate enrichment, with special reference to inorganic carbon acquisition. <i>Marine Environmental Research</i> , 2018, 133, 15-23.	2.5	23
35	A review of existing and potential blue carbon contributions to climate change mitigation in the Anthropocene. <i>Journal of Applied Ecology</i> , 2022, 59, 1686-1699.	4.0	23
36	Decreased motility of flagellated microalgae long-term acclimated to CO <sub>2</sub> -induced acidified waters. <i>Nature Climate Change</i> , 2020, 10, 561-567.	18.8	20

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37	Combined effects of ocean acidification and warming on physiological response of the diatom <i>Thalassiosira pseudonana</i> to light challenges. <i>Marine Environmental Research</i> , 2018, 135, 63-69.	2.5	19
38	Combination of ocean acidification and warming enhances the competitive advantage of <i>Skeletonema costatum</i> over a green tide alga, <i>Ulva linza</i> . <i>Harmful Algae</i> , 2019, 85, 101698.	4.8	19
39	Zinc toxicity alters the photosynthetic response of red alga <i>Pyropia yezoensis</i> to ocean acidification. <i>Environmental Science and Pollution Research</i> , 2020, 27, 3202-3212.	5.3	18
40	Bioremediation of <i>Pyropia</i> -processing wastewater coupled with lipid production using <i>Chlorella</i> sp.. <i>Bioresource Technology</i> , 2021, 321, 124428.	9.6	18
41	Spatial-Temporal Variation of Bacterial Communities in Sediments in Lake Chaohu, a Large, Shallow Eutrophic Lake in China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3966.	2.6	17
42	Enhancement of diatom growth and phytoplankton productivity with reduced O <sub>2</sub> availability is moderated by rising CO <sub>2</sub> . <i>Communications Biology</i> , 2022, 5, 54.	4.4	16
43	Physiological response of the toxic and non-toxic strains of a bloom-forming cyanobacterium <i>Microcystis aeruginosa</i> to changing ultraviolet radiation regimes. <i>Hydrobiologia</i> , 2019, 833, 143-156.	2.0	15
44	The Combined Effects of Ocean Acidification and Heavy Metals on Marine Organisms: A Meta-Analysis. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	15
45	Future CO <sub>2</sub> -induced seawater acidification mediates the physiological performance of a green alga <i>Ulva linza</i> in different photoperiods. <i>PeerJ</i> , 2019, 7, e7048.	2.0	14
46	Coculture of the Pacific white shrimp <i>Litopenaeus vannamei</i> and the macroalga <i>Ulva linza</i> enhances their growth rates and functional properties. <i>Journal of Cleaner Production</i> , 2022, 349, 131407.	9.3	13
47	Differential responses of bloom-forming <i>Ulva intestinalis</i> and economically important <i>Gracilariopsis lemaneiformis</i> to marine heatwaves under changing nitrate conditions. <i>Science of the Total Environment</i> , 2022, 840, 156591.	8.0	13
48	Water depth-dependant photosynthetic and growth rates of <i>Gracilaria lemaneiformis</i> , with special reference to effects of solar UV radiation. <i>Aquaculture</i> , 2018, 484, 28-31.	3.5	12
49	Regulation of inorganic carbon acquisition in a red tide alga ( <i>Skeletonema</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 4871-4882.	3.3	12
50	Ultraviolet Radiation Stimulates Activity of CO <sub>2</sub> Concentrating Mechanisms in a Bloom-Forming Diatom Under Reduced CO <sub>2</sub> Availability. <i>Frontiers in Microbiology</i> , 2021, 12, 651567.	3.5	12
51	Contrasting Photophysiological Characteristics of Phytoplankton Assemblages in the Northern South China Sea. <i>PLoS ONE</i> , 2016, 11, e0153555.	2.5	10
52	Non-cryogenic preservation of thalli, germlings, and gametes of the green seaweed <i>Ulva rigida</i> . <i>Aquaculture</i> , 2017, 473, 246-250.	3.5	9
53	Response of the red algae <i>Pyropia yezoensis</i> grown at different light intensities to CO <sub>2</sub> -induced seawater acidification at different life cycle stages. <i>Algal Research</i> , 2020, 49, 101950.	4.6	8
54	Physiological acclimation of <i>Ulva prolifera</i> to seasonal environmental factors drives green tides in the Yellow Sea. <i>Marine Environmental Research</i> , 2022, 179, 105695.	2.5	8

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55	Future CO <sub>2</sub> -induced ocean acidification enhances resilience of a green tide alga to low-salinity stress. ICES Journal of Marine Science, 0, , .	2.5	7
56	Elevated pCO <sub>2</sub> Impedes Succession of Phytoplankton Community From Diatoms to Dinoflagellates Along With Increased Abundance of Viruses and Bacteria. Frontiers in Marine Science, 2021, 8, .	2.5	7
57	High CO <sub>2</sub> increases lipid and polyunsaturated fatty acid productivity of the marine diatom <i>Skeletonema costatum</i> in a two-stage model. Journal of Applied Phycology, 2022, 34, 43-50.	2.8	7
58	Enhanced lipid productivity coupled with carbon and nitrogen removal of the diatom <i>Skeletonema costatum</i> cultured in the high CO <sub>2</sub> level. Algal Research, 2022, 61, 102589.	4.6	7
59	Elevated CO <sub>2</sub> affects kelp nutrient quality: A case study of <i>Saccharina japonica</i> from CO <sub>2</sub> -enriched coastal mesocosm systems. Journal of Phycology, 2021, 57, 379-391.	2.3	6
60	Effects of periodical dehydration on biomass yield and biochemical composition of the edible red alga <i>Pyropia yezoensis</i> grown at different salinities. Algal Research, 2021, 56, 102315.	4.6	5
61	Contrasting responses of phytoplankton productivity between coastal and offshore surface waters in the Taiwan Strait and the South China Sea to short-term seawater acidification. Biogeosciences, 2022, 19, 2795-2804.	3.3	5
62	Different Photosynthetic Responses of <i>Pyropia yezoensis</i> to Ultraviolet Radiation Under Changing Temperature and Photosynthetic Active Radiation Regimes. Photochemistry and Photobiology, 2019, 95, 1213-1218.	2.5	4
63	Differential Photosynthetic Response of a Green Tide Alga <i>Ulva linza</i> to Ultraviolet Radiation, Under Short- and Long-term Ocean Acidification Regimes. Photochemistry and Photobiology, 2019, 95, 990-998.	2.5	4
64	Growth, DMS and DMSP production in <i>Emiliana huxleyi</i> under elevated CO <sub>2</sub> and UV radiation. Environmental Pollution, 2022, 294, 118643.	7.5	2
65	In Situ Measurement of Phytoplankton Photochemical Parameters. , 2021, , 245-251.		0
66	Photosynthetic Carbon Fixation. , 2021, , 139-147.		0