Xiaogang Xing

List of Publications by Year in descending order

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42 papers	1,579 citations	331538 21 h-index	315616 38 g-index
44 all docs	44 docs citations	44 times ranked	1767 citing authors

#	Article	IF	Citations
1	Recommendations for obtaining unbiased chlorophyll estimates from in situ chlorophyll fluorometers: A global analysis of WET Labs ECO sensors. Limnology and Oceanography: Methods, 2017, 15, 572-585.	1.0	191
2	Understanding the seasonal dynamics of phytoplankton biomass and the deep chlorophyll maximum in oligotrophic environments: A Bioâ€Argo float investigation. Global Biogeochemical Cycles, 2014, 28, 856-876.	1.9	167
3	Quenching correction for in vivo chlorophyll fluorescence acquired by autonomous platforms: A case study with instrumented elephant seals in the Kerguelen region (Southern Ocean). Limnology and Oceanography: Methods, 2012, 10, 483-495.	1.0	128
4	Monitoring ocean biogeochemistry with autonomous platforms. Nature Reviews Earth & Environment, 2020, 1, 315-326.	12.2	114
5	A BGC-Argo Guide: Planning, Deployment, Data Handling and Usage. Frontiers in Marine Science, 2019, 6, .	1.2	86
6	Combined processing and mutual interpretation of radiometry and fluorimetry from autonomous profiling Bio-Argo floats: Chlorophyllaretrieval. Journal of Geophysical Research, 2011, 116, .	3.3	85
7	From the shape of the vertical profile of in vivo fluorescence to Chlorophyll-<i>a</i> concentration. Biogeosciences, 2011, 8, 2391-2406.	1.3	58
8	A Novel Near-Real-Time Quality-Control Procedure for Radiometric Profiles Measured by Bio-Argo Floats: Protocols and Performances. Journal of Atmospheric and Oceanic Technology, 2016, 33, 937-951.	0.5	57
9	An overview of remote sensing of chlorophyll fluorescence. Ocean Science Journal, 2007, 42, 49-59.	0.6	51
10	Calibration procedures and first dataset of Southern Ocean chlorophyll <i>a</i> profiles collected by elephant seals equipped with a newly developed CTD-fluorescence tags. Earth System Science Data, 2013, 5, 15-29.	3.7	51
11	Improved correction for non-photochemical quenching of in situ chlorophyll fluorescence based on a synchronous irradiance profile. Optics Express, 2018, 26, 24734.	1.7	50
12	The variability of chlorophyll-a and its relationship with dynamic factors in the basin of the South China Sea. Journal of Marine Systems, 2019, 200, 103230.	0.9	50
13	Correction of profiles of inâ€situ chlorophyll fluorometry for the contribution of fluorescence originating from nonâ€algal matter. Limnology and Oceanography: Methods, 2017, 15, 80-93.	1.0	44
14	Combined processing and mutual interpretation of radiometry and fluorometry from autonomous profiling Bioâ€Argo floats: 2. Colored dissolved organic matter absorption retrieval. Journal of Geophysical Research, 2012, 117, .	3.3	43
15	Two databases derived from BGC-Argo float measurements for marine biogeochemical and bio-optical applications. Earth System Science Data, 2017, 9, 861-880.	3.7	42
16	The relation of chlorophyll-a concentration with the reflectance peak near 700 nm in algae-dominated waters and sensitivity of fluorescence algorithms for detecting algal bloom. International Journal of Remote Sensing, 2010, 31, 39-48.	1.3	35
17	Arctic mid-winter phytoplankton growth revealed by autonomous profilers. Science Advances, 2020, 6, .	4.7	33
18	Instrumented elephant seals reveal the seasonality in chlorophyll and lightâ€mixing regime in the ironâ€fertilized Southern Ocean. Geophysical Research Letters, 2013, 40, 6368-6372.	1.5	32

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19	Seasonal variations of bioâ€optical properties and their interrelationships observed by <scp>B</scp>ioâ€<scp>A</scp>rgo floats in the subpolar <scp>N</scp>orth <scp>A</scp>tlantic. Journal of Geophysical Research: Oceans, 2014, 119, 7372-7388.	1.0	29
20	A limited effect of sub-tropical typhoons on phytoplankton dynamics. Biogeosciences, 2021, 18, 849-859.	1.3	29
21	Seasonal dynamics in colored dissolved organic matter in the Mediterranean Sea: Patterns and drivers. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 83, 93-101.	0.6	25
22	Temporal and Vertical Variations of Particulate and Dissolved Optical Properties in the South China Sea. Journal of Geophysical Research: Oceans, 2019, 124, 3779-3795.	1.0	21
23	Evaluation of Ocean Color Remote Sensing Algorithms for Diffuse Attenuation Coefficients and Optical Depths with Data Collected on BGC-Argo Floats. Remote Sensing, 2020, 12, 2367.	1.8	16
24	Enhanced Winter Carbon Export Observed by BGCâ€Argo in the Northwest Pacific Ocean. Geophysical Research Letters, 2020, 47, e2020GL089847.	1.5	14
25	Far-Field Impacts of a Super Typhoon on Upper Ocean Phytoplankton Dynamics. Frontiers in Marine Science, 2021, 8, .	1.2	13
26	Chlorophyllâ€Based Model to Estimate Underwater Photosynthetically Available Radiation for Modeling, Inâ€Situ , and Remoteâ€Sensing Applications. Geophysical Research Letters, 2021, 48, e2020GL092189.	1.5	12
27	Preparing the New Phase of Argo: Scientific Achievements of the NAOS Project. Frontiers in Marine Science, 2020, 7, .	1.2	10
28	A blockchain index structure based on subchain query. Journal of Cloud Computing: Advances, Systems and Applications, 2021, 10, .	2.1	10
29	Influence of multi-scale dynamics on the vertical nitrate distribution around the Kuroshio Extension: An investigation based on BGC-Argo and satellite data. Progress in Oceanography, 2021, 193, 102543.	1.5	9
30	Relationships between optical backscattering, particulate organic carbon, and phytoplankton carbon in the oligotrophic South China Sea basin. Optics Express, 2021, 29, 15159.	1.7	9
31	Improved Perceptron of Subsurface Chlorophyll Maxima by a Deep Neural Network: A Case Study with BGC-Argo Float Data in the Northwestern Pacific Ocean. Remote Sensing, 2022, 14, 632.	1.8	9
32	A Spectrally Selective Attenuation Mechanismâ€Based K par Algorithm for Biomass Heating Effect Simulation in the Open Ocean. Journal of Geophysical Research: Oceans, 2017, 122, 9370-9386.	1.0	8
33	An Inherent Optical Properties Data Processing System for Achieving Consistent Ocean Color Products From Different Ocean Color Satellites. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015811.	1.0	8
34	Seasonal and Dailyâ€Scale Photoacclimation Modulating the Phytoplankton Chlorophyllâ€Carbon Coupling Relationship in the Midâ€Latitude Northwest Pacific. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017717.	1.0	8
35	Comparison of chlorophyll algorithms in the bohai sea of China. Ocean Science Journal, 2007, 42, 199-209.	0.6	7
36	In situ determination of sunâ€induced chlorophyll a fluorescence quantum yield in the North China Sea. International Journal of Remote Sensing, 2008, 29, 851-865.	1.3	4

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37	Toward deeper development of Biogeochemical-Argo floats. Atmospheric and Oceanic Science Letters, 2018, 11, 287-290.	0.5	4
38	Correction of Biogeochemical-Argo Radiometry for Sensor Temperature-Dependence and Drift: Protocols for a Delayed-Mode Quality Control. Sensors, 2021, 21, 6217.	2.1	4
39	The Effects of Pheophytin a on Absorption Properties of Phytoplankton in Dalian Bay, China. IOP Conference Series: Earth and Environmental Science, 2020, 428, 012048.	0.2	3
40	Biogeochemical Model Optimization by Using Satellite-Derived Phytoplankton Functional Type Data and BGC-Argo Observations in the Northern South China Sea. Remote Sensing, 2022, 14, 1297.	1.8	3
41	Oceanic Fronts Structure Phytoplankton Distributions in the Central South Indian Ocean. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	3
42	Laboratory results on the dependence of dark current upon environmental temperature variability for Satlanticâ€™s OCR504 radiometers. , 2018, , .		1