

Lionel Guidi

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

11,904
citations

87723

38
h-index

95083

68
g-index

79
all docs

79
docs citations

79
times ranked

12100
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and function of the global ocean microbiome. <i>Science</i> , 2015, 348, 1261359.	6.0	2,137
2	Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015, 348, 1261605.	6.0	1,551
3	Determinants of community structure in the global plankton interactome. <i>Science</i> , 2015, 348, 1262073.	6.0	842
4	Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016, 532, 465-470.	13.7	670
5	Patterns and ecological drivers of ocean viral communities. <i>Science</i> , 2015, 348, 1261498.	6.0	617
6	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019, 177, 1109-1123.e14.	13.5	541
7	Influence of diatom diversity on the ocean biological carbon pump. <i>Nature Geoscience</i> , 2018, 11, 27-37.	5.4	451
8	Marine ecosystemsâ€™ responses to climatic and anthropogenic forcings in the Mediterranean. <i>Progress in Oceanography</i> , 2011, 91, 97-166.	1.5	385
9	A global ocean atlas of eukaryotic genes. <i>Nature Communications</i> , 2018, 9, 373.	5.8	297
10	Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019, 179, 1084-1097.e21.	13.5	271
11	Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome. <i>Cell</i> , 2019, 179, 1068-1083.e21.	13.5	268
12	The Underwater Vision Profiler 5: An advanced instrument for high spatial resolution studies of particle size spectra and zooplankton. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 462-473.	1.0	255
13	Globally Consistent Quantitative Observations of Planktonic Ecosystems. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	234
14	Tara Oceans: towards global ocean ecosystems biology. <i>Nature Reviews Microbiology</i> , 2020, 18, 428-445.	13.6	227
15	Effects of phytoplankton community on production, size, and export of large aggregates: A worldâ€™ocean analysis. <i>Limnology and Oceanography</i> , 2009, 54, 1951-1963.	1.6	216
16	In situ imaging reveals the biomass of giant protists in the global ocean. <i>Nature</i> , 2016, 532, 504-507.	13.7	210
17	Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015, 348, 1261447.	6.0	158
18	The microbial carbon pump concept: Potential biogeochemical significance in the globally changing ocean. <i>Progress in Oceanography</i> , 2015, 134, 432-450.	1.5	140

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19	Relationship between particle size distribution and flux in the mesopelagic zone. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1364-1374.	0.6	138
20	The evolution of diatoms and their biogeochemical functions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160397.	1.8	134
21	Cryptic and abundant marine viruses at the evolutionary origins of Earth's RNA virome. Science, 2022, 376, 156-162.	6.0	124
22	A new look at ocean carbon remineralization for estimating deepwater sequestration. Global Biogeochemical Cycles, 2015, 29, 1044-1059.	1.9	108
23	A large population of king crabs in Palmer Deep on the west Antarctic Peninsula shelf and potential invasive impacts. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1017-1026.	1.2	100
24	Flows of Research Manuscripts Among Scientific Journals Reveal Hidden Submission Patterns. Science, 2012, 338, 1065-1069.	6.0	97
25	Light color acclimation is a key process in the global ocean distribution of <i>Synechococcus cyanobacteria</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2010-E2019.	3.3	91
26	Does eddy-eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?. Journal of Geophysical Research, 2012, 117, .	3.3	80
27	Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. Global Biogeochemical Cycles, 2019, 33, 391-419.	1.9	76
28	Sinking Organic Particles in the Ocean's Flux Estimates From in situ Optical Devices. Frontiers in Marine Science, 2020, 6, .	1.2	76
29	The ocean's twilight zone must be studied now, before it is too late. Nature, 2020, 580, 26-28.	13.7	73
30	Functional repertoire convergence of distantly related eukaryotic plankton lineages abundant in the sunlit ocean. Cell Genomics, 2022, 2, 100123.	3.0	70
31	Deep Chlorophyll Maxima in the Global Ocean: Occurrences, Drivers and Characteristics. Global Biogeochemical Cycles, 2021, 35, e2020GB006759.	1.9	69
32	Deep sediment resuspension and thick nepheloid layer generation by open-ocean convection. Journal of Geophysical Research: Oceans, 2017, 122, 2291-2318.	1.0	63
33	Compendium of 530 metagenome-assembled bacterial and archaeal genomes from the polar Arctic Ocean. Nature Microbiology, 2021, 6, 1561-1574.	5.9	57
34	Particle size distribution and estimated carbon flux across the Arabian Sea oxygen minimum zone. Biogeosciences, 2014, 11, 4541-4557.	1.3	54
35	Environmental vulnerability of the global ocean epipelagic plankton community interactome. Science Advances, 2021, 7, .	4.7	54
36	Patterns of eukaryotic diversity from the surface to the deep-ocean sediment. Science Advances, 2022, 8, eabj9309.	4.7	52

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37	Optical techniques for remote and in-situ characterization of particles pertinent to GEOTRACES. <i>Progress in Oceanography</i> , 2015, 133, 43-54.	1.5	50
38	Eukaryotic virus composition can predict the efficiency of carbon export in the global ocean. <i>IScience</i> , 2021, 24, 102002.	1.9	50
39	Volume distribution for particles between 3.5 to 2000 μm in the upper 200 m region of the South Pacific Gyre. <i>Biogeosciences</i> , 2008, 5, 299-310.	1.3	44
40	Global biogeochemical provinces of the mesopelagic zone. <i>Journal of Biogeography</i> , 2018, 45, 500-514.	1.4	44
41	Effects of frontal processes on marine aggregate dynamics and fluxes: An interannual study in a permanent geostrophic front (NW Mediterranean). <i>Journal of Marine Systems</i> , 2008, 70, 1-20.	0.9	43
42	<sc>The Underwater Vision Profiler 6: an imaging sensor of particle size spectra and plankton, for autonomous and cabled platforms</sc>. <i>Limnology and Oceanography: Methods</i> , 2022, 20, 115-129.	1.0	42
43	Global zoogeography of fragile macrozooplankton in the upper 100–1000 m inferred from the underwater video profiler. <i>ICES Journal of Marine Science</i> , 2008, 65, 433-442.	1.2	41
44	Diversity and ecological footprint of Global Ocean RNA viruses. <i>Science</i> , 2022, 376, 1202-1208.	6.0	41
45	Distribution of <i>Pelagia noctiluca</i> (Cnidaria, Scyphozoa) in the Ligurian Sea (NW Mediterranean Sea). <i>Journal of Plankton Research</i> , 2012, 34, 874-885.	0.8	38
46	Comprehensive Model of Annual Plankton Succession Based on the Whole-Plankton Time Series Approach. <i>PLoS ONE</i> , 2015, 10, e0119219.	1.1	37
47	Vertical distribution of aggregates ($>110 \mu\text{m}$) and mesoscale activity in the northeastern Atlantic: Effects on the deep vertical export of surface carbon. <i>Limnology and Oceanography</i> , 2007, 52, 7-18.	1.6	36
48	Optical imaging of mesopelagic particles indicates deep carbon flux beneath a natural iron-fertilized bloom in the Southern Ocean. <i>Limnology and Oceanography</i> , 2011, 56, 1130-1140.	1.6	34
49	The wineglass effect shapes particle export to the deep ocean in mesoscale eddies. <i>Geophysical Research Letters</i> , 2016, 43, 9791-9800.	1.5	34
50	Observational Needs Supporting Marine Ecosystems Modeling and Forecasting: From the Global Ocean to Regional and Coastal Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	32
51	Effect of Type and Concentration of Ballasting Particles on Sinking Rate of Marine Snow Produced by the Appendicularian <i>Oikopleura dioica</i> . <i>PLoS ONE</i> , 2013, 8, e75676.	1.1	31
52	An operational overview of the EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) Northeast Pacific field deployment. <i>Elementa</i> , 2021, 9, .	1.1	28
53	Priorities for ocean microbiome research. <i>Nature Microbiology</i> , 2022, 7, 937-947.	5.9	27
54	The Ocean Gene Atlas v2.0: online exploration of the biogeography and phylogeny of plankton genes. <i>Nucleic Acids Research</i> , 2022, 50, W516-W526.	6.5	26

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55	An initial carbon export assessment in the Mediterranean Sea based on drifting sediment traps and the Underwater Vision Profiler data sets. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 117, 107-119.	0.6	25
56	Macroscale patterns of oceanic zooplankton composition and size structure. <i>Scientific Reports</i> , 2021, 11, 15714.	1.6	24
57	Distribution and fluxes of aggregates >100 µm in the upper kilometer of the South-Eastern Pacific. <i>Biogeosciences</i> , 2008, 5, 1361-1372.	1.3	22
58	Investigating Particle Size-Flux Relationships and the Biological Pump Across a Range of Plankton Ecosystem States From Coastal to Oligotrophic. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	21
59	Diazotrophic <i>Trichodesmium</i> impact on UV-Vis radiance and pigment composition in the western tropical South Pacific. <i>Biogeosciences</i> , 2018, 15, 5249-5269.	1.3	17
60	Cross-shelf transport, oxygen depletion, and nitrate release within a forming mesoscale eddy in the eastern Indian Ocean. <i>Limnology and Oceanography</i> , 2016, 61, 103-121.	1.6	15
61	From egg to maturity: a closed system for complete life cycle studies of the holopelagic jellyfish <i>Pelagia noctiluca</i> . <i>Journal of Plankton Research</i> , 2019, 41, 207-217.	0.8	13
62	Mare Incognitum: A Glimpse into Future Plankton Diversity and Ecology Research. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	10
63	A new procedure to optimize the selection of groups in a classification tree: Applications for ecological data. <i>Ecological Modelling</i> , 2009, 220, 451-461.	1.2	9
64	Probabilistic modeling to estimate jellyfish ecophysiological properties and size distributions. <i>Scientific Reports</i> , 2020, 10, 6074.	1.6	9
65	Length, width, shape regularity, and chain structure: time series analysis of phytoplankton morphology from imagery. <i>Limnology and Oceanography</i> , 2022, 67, 1850-1864.	1.6	6
66	Processes controlling aggregate formation and distribution during the Arctic phytoplankton spring bloom in Baffin Bay. <i>Elementa</i> , 2021, 9, .	1.1	5
67	Statistical distributions of trace metal concentrations in the northwestern Mediterranean atmospheric aerosol. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 9177-9189.	1.3	2
68	Reply to Comment on "A new procedure to optimize the selection of groups in a classification tree: Applications for ecological data". <i>Ecological Modelling</i> , 2010, 221, 2739-2740.	1.2	0