

Daniele Iudicone

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

7,999
citations

31
h-index

87
g-index

87
ext. papers

11,047
ext. citations

11.2
avg, IF

5.25
L-index

#	Paper	IF	Citations
84	Trade-off between sex and growth in diatoms: Molecular mechanisms and demographic implications.. <i>Science Advances</i> , 2022 , 8, eabj9466	14.3	1
83	Restructuring of plankton genomic biogeography in the surface ocean under climate change. <i>Nature Climate Change</i> , 2022 , 12, 393-401	21.4	2
82	Cryptic and abundant marine viruses at the evolutionary origins of Earth's RNA virome.. <i>Science</i> , 2022 , 376, 156-162	33.3	9
81	Functional repertoire convergence of distantly related eukaryotic plankton lineages abundant in the sunlit ocean. <i>Cell Genomics</i> , 2022 , 2, 100123		6
80	Compendium of 530 metagenome-assembled bacterial and archaeal genomes from the polar Arctic Ocean. <i>Nature Microbiology</i> , 2021 , 6, 1561-1574	26.6	9
79	Global drivers of eukaryotic plankton biogeography in the sunlit ocean. <i>Science</i> , 2021 , 374, 594-599	33.3	3
78	Environmental vulnerability of the global ocean epipelagic plankton community interactome. <i>Science Advances</i> , 2021 , 7,	14.3	5
77	Macroscale patterns of oceanic zooplankton composition and size structure. <i>Scientific Reports</i> , 2021 , 11, 15714	4.9	2
76	Tara Oceans: towards global ocean ecosystems biology. <i>Nature Reviews Microbiology</i> , 2020 , 18, 428-445	22.2	60
75	Into the bloom: Molecular response of pelagic tunicates to fluctuating food availability. <i>Molecular Ecology</i> , 2020 , 29, 292-307	5.7	2
74	Ocean Acidification From Below in the Tropical Pacific. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006368	9.5	4
73	Large scale patterns of marine diatom richness: Drivers and trends in a changing ocean. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1915-1928	6.1	7
72	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019 , 177, 1109-1123.e14	56.2	256
71	Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 391-419	5.9	42
70	On the time scales and structure of Lagrangian intermittency in homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2019 , 867, 438-481	3.7	4
69	Marine DNA Viral Macro-and Micro-Diversity From Pole to Pole. <i>SSRN Electronic Journal</i> , 2019 ,	1	3
68	Meta-omics reveals genetic flexibility of diatom nitrogen transporters in response to environmental changes. <i>Molecular Biology and Evolution</i> , 2019 ,	8.3	17

67	Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome. <i>Cell</i> , 2019 , 179, 1068-1083.e21	56.2	113
66	Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019 , 179, 1084-1097.e21	56.2	108
65	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,	4.5	18
64	The Water Mass Transformation Framework for Ocean Physics and Biogeochemistry. <i>Annual Review of Marine Science</i> , 2019 , 11, 271-305	15.4	33
63	Discovering millions of plankton genomic markers from the Atlantic Ocean and the Mediterranean Sea. <i>Molecular Ecology Resources</i> , 2019 , 19, 526-535	8.4	3
62	Modelling the complexity of plankton communities exploiting omics potential: From present challenges to an integrative pipeline. <i>Current Opinion in Systems Biology</i> , 2019 , 13, 68-74	3.2	15
61	Three-Dimensional Ageostrophic Motion and Water Mass Subduction in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 1533-1562	3.3	8
60	Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. <i>Nature Communications</i> , 2018 , 9, 310	17.4	55
59	A global ocean atlas of eukaryotic genes. <i>Nature Communications</i> , 2018 , 9, 373	17.4	168
58	Influence of diatom diversity on the ocean biological carbon pump. <i>Nature Geoscience</i> , 2018 , 11, 27-37	18.3	222
57	A Conceptual Framework for Developing the Next Generation of Marine OBservatories (MOBs) for Science and Society. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	14
56	Linking mixing processes and climate variability to the heat content distribution of the Eastern Mediterranean abyss. <i>Scientific Reports</i> , 2018 , 8, 11317	4.9	3
55	The Effect of Air-Sea Flux Products, Shortwave Radiation Depth Penetration, and Albedo on the Upper Ocean Overturning Circulation. <i>Geophysical Research Letters</i> , 2018 , 45, 9087-9097	4.9	9
54	Modelling plankton ecosystems in the meta-omics era. Are we ready?. <i>Marine Genomics</i> , 2017 , 32, 1-17	1.9	23
53	Nutrient consumption and chain tuning in diatoms exposed to storm-like turbulence. <i>Scientific Reports</i> , 2017 , 7, 1828	4.9	13
52	Marine diatoms change their gene expression profile when exposed to microscale turbulence under nutrient replete conditions. <i>Scientific Reports</i> , 2017 , 7, 3826	4.9	20
51	Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. <i>Nature Geoscience</i> , 2017 , 10, 836-839	18.3	37
50	Mechanistic Drivers of Reemergence of Anthropogenic Carbon in the Equatorial Pacific. <i>Geophysical Research Letters</i> , 2017 , 44, 9433-9439	4.9	8

49	Large Reemergence of Anthropogenic Carbon into the Ocean's Surface Mixed Layer Sustained by the Ocean's Overturning Circulation. <i>Journal of Climate</i> , 2017 , 30, 8615-8631	4.4	14
48	Southern Ocean Mixed-Layer Seasonal and Interannual Variations From Combined Satellite and In Situ Data. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 10042-10060	3.3	29
47	Insights on the drivers of genetic divergence in the European anchovy. <i>Scientific Reports</i> , 2017 , 7, 4180	4.9	9
46	Regulation of chain length in two diatoms as a growth-fragmentation process. <i>Physical Review E</i> , 2016 , 94, 022418	2.4	9
45	The formation of the ocean's anthropogenic carbon reservoir. <i>Scientific Reports</i> , 2016 , 6, 35473	4.9	33
44	Delineating ecologically significant taxonomic units from global patterns of marine picocyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3365-74	11.5	104
43	High resolution SNPs selection in <i>Engraulis encrasicolus</i> through Taqman OpenArray. <i>Fisheries Research</i> , 2016 , 177, 31-38	2.3	6
42	Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016 , 532, 465-470	50.4	392
41	Reverse transcriptase genes are highly abundant and transcriptionally active in marine plankton assemblages. <i>ISME Journal</i> , 2016 , 10, 1134-46	11.9	20
40	Survey of the green picoalga <i>Bathycoccus</i> genomes in the global ocean. <i>Scientific Reports</i> , 2016 , 6, 37900	4.9	42
39	TURBOGEN: Computer-controlled vertically oscillating grid system for small-scale turbulence studies on plankton. <i>Review of Scientific Instruments</i> , 2016 , 87, 035119	1.7	4
38	Insights into global diatom distribution and diversity in the world's ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1516-25	11.5	322
37	Environmental processes driving anchovy and sardine distribution in a highly variable environment: the role of the coastal structure and riverine input. <i>Fisheries Oceanography</i> , 2016 , 25, 471-490	2.4	22
36	The diatom molecular toolkit to handle nitrogen uptake. <i>Marine Genomics</i> , 2015 , 24 Pt 1, 95-108	1.9	24
35	Open science resources for the discovery and analysis of Tara Oceans data. <i>Scientific Data</i> , 2015 , 2, 150083	3.3	198
34	Net primary production in the Gulf Stream sustained by quasi-geostrophic vertical exchanges. <i>Geophysical Research Letters</i> , 2015 , 42, 441-449	4.9	22
33	Ocean plankton. Patterns and ecological drivers of ocean viral communities. <i>Science</i> , 2015 , 348, 1261498	33.3	421
32	Ocean plankton. Structure and function of the global ocean microbiome. <i>Science</i> , 2015 , 348, 1261359	33.3	1261

31	Ocean plankton. Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015 , 348, 1261605	33.3	990
30	Ocean plankton. Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015 , 348, 1261447	33.3	100
29	The effect of the Basset history force on particle clustering in homogeneous and isotropic turbulence. <i>Physics of Fluids</i> , 2014 , 26, 041704	4.4	48
28	The dynamics of sexual phase in the marine diatom <i>Pseudo-nitzschia multistriata</i> (Bacillariophyceae). <i>Journal of Phycology</i> , 2014 , 50, 817-28	3	22
27	Response of the deep chlorophyll maximum to fluctuations in vertical mixing intensity. <i>Progress in Oceanography</i> , 2013 , 109, 33-46	3.8	16
26	Filament formation and evolution in buoyant coastal waters: Observation and modelling. <i>Progress in Oceanography</i> , 2012 , 106, 118-137	3.8	31
25	Water Mass Analysis of Effect of Climate Change on AirSea CO2 Fluxes: The Southern Ocean. <i>Journal of Climate</i> , 2012 , 25, 3894-3908	4.4	32
24	A holistic approach to marine eco-systems biology. <i>PLoS Biology</i> , 2011 , 9, e1001177	9.7	265
23	Water masses as a unifying framework for understanding the Southern Ocean Carbon Cycle. <i>Biogeosciences</i> , 2011 , 8, 1031-1052	4.6	53
22	Dynamics of sea-surface temperature anomalies in the Southern Ocean diagnosed from a 2D mixed-layer model. <i>Climate Dynamics</i> , 2010 , 34, 153-184	4.2	17
21	Coastal Phytoplankton Do Not Rest in Winter. <i>Estuaries and Coasts</i> , 2010 , 33, 342-361	2.8	50
20	Helium isotopic constraints on simulated ocean circulations: implications for abyssal theories. <i>Environmental Fluid Mechanics</i> , 2010 , 10, 257-273	2.2	9
19	Modelling retention and dispersion mechanisms of bluefin tuna eggs and larvae in the northwest Mediterranean Sea. <i>Progress in Oceanography</i> , 2010 , 86, 45-58	3.8	38
18	Numerical analysis of cumulative impact of phytoplankton photoresponses to light variation on carbon assimilation. <i>Journal of Theoretical Biology</i> , 2009 , 261, 361-71	2.3	20
17	Potential vorticity estimates of absolute velocities on the Ross Sea shelf. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 314-329	2.5	2
16	Impact of penetrative solar radiation on the diagnosis of water mass transformation in the Mediterranean Sea. <i>Journal of Geophysical Research</i> , 2008 , 113,		12
15	Water-Mass Transformations in a Neutral Density Framework and the Key Role of Light Penetration. <i>Journal of Physical Oceanography</i> , 2008 , 38, 1357-1376	2.4	79
14	The Role of Southern Ocean Surface Forcings and Mixing in the Global Conveyor. <i>Journal of Physical Oceanography</i> , 2008 , 38, 1377-1400	2.4	48

13	The Global Conveyor Belt from a Southern Ocean Perspective. <i>Journal of Physical Oceanography</i> , 2008 , 38, 1401-1425	2.4	40
12	An Exchange Window for the Injection of Antarctic Intermediate Water into the South Pacific. <i>Journal of Physical Oceanography</i> , 2007 , 37, 31-49	2.4	29
11	A finite volume dynamic large-eddy simulation method for buoyancy driven turbulent geophysical flows. <i>Ocean Modelling</i> , 2007 , 17, 199-218	3	8
10	Seasonal variability of the mixed layer depth in the Mediterranean Sea as derived from in situ profiles. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	146
9	Mixed layer depth over the global ocean: An examination of profile data and a profile-based climatology. <i>Journal of Geophysical Research</i> , 2004 , 109,		1641
8	Sensitivity of numerical tracer trajectories to uncertainties in OGCM velocity fields. <i>Ocean Modelling</i> , 2002 , 4, 313-325	3	27
7	Restructuring of genomic provinces of surface ocean plankton under climate change		3
6	Strong sensitivity of Southern Ocean carbon uptake and nutrient cycling to wind stirring		1
5	Watermasses as a unifying framework for understanding the Southern Ocean carbon cycle		3
4	Ecogenomics and biogeochemical impacts of uncultivated globally abundant ocean viruses		5
3	Environmental vulnerability of the global ocean plankton community interactome		2
2	Genomic evidence for global ocean plankton biogeography shaped by large-scale current systems		20
1	Open science resources for the discovery and analysis of Tara Oceans Data		5