

Daniele Iudicone

List of Publications by Citations

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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 | 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 |
| 83 | Ocean plankton. Structure and function of the global ocean microbiome. <i>Science</i> , 2015 , 348, 1261359 | 33.3 | 1261 |
| 82 | Ocean plankton. Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015 , 348, 1261605 | 33.3 | 990 |
| 81 | Ocean plankton. Patterns and ecological drivers of ocean viral communities. <i>Science</i> , 2015 , 348, 1261498 | 33.3 | 421 |
| 80 | Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016 , 532, 465-470 | 50.4 | 392 |
| 79 | 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 |
| 78 | A holistic approach to marine eco-systems biology. <i>PLoS Biology</i> , 2011 , 9, e1001177 | 9.7 | 265 |
| 77 | Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019 , 177, 1109-1123.e14 | 56.2 | 256 |
| 76 | Influence of diatom diversity on the ocean biological carbon pump. <i>Nature Geoscience</i> , 2018 , 11, 27-37 | 18.3 | 222 |
| 75 | Open science resources for the discovery and analysis of Tara Oceans data. <i>Scientific Data</i> , 2015 , 2, 150083 | 8.3 | 198 |
| 74 | A global ocean atlas of eukaryotic genes. <i>Nature Communications</i> , 2018 , 9, 373 | 17.4 | 168 |
| 73 | 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 |
| 72 | Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome. <i>Cell</i> , 2019 , 179, 1068-1083.e21 | 56.2 | 113 |
| 71 | Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019 , 179, 1084-1097.e21 | 56.2 | 108 |
| 70 | 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 |
| 69 | Ocean plankton. Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015 , 348, 1261447 | 33.3 | 100 |
| 68 | 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 |

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| 67 | Tara Oceans: towards global ocean ecosystems biology. <i>Nature Reviews Microbiology</i> , 2020 , 18, 428-445 | 22.2 | 60 |
| 66 | Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. <i>Nature Communications</i> , 2018 , 9, 310 | 17.4 | 55 |
| 65 | Water masses as a unifying framework for understanding the Southern Ocean Carbon Cycle. <i>Biogeosciences</i> , 2011 , 8, 1031-1052 | 4.6 | 53 |
| 64 | Coastal Phytoplankton Do Not Rest in Winter. <i>Estuaries and Coasts</i> , 2010 , 33, 342-361 | 2.8 | 50 |
| 63 | 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 |
| 62 | 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 |
| 61 | Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 391-419 | 5.9 | 42 |
| 60 | Survey of the green picoalga Bathycoccus genomes in the global ocean. <i>Scientific Reports</i> , 2016 , 6, 37900 | 4.9 | 42 |
| 59 | The Global Conveyor Belt from a Southern Ocean Perspective. <i>Journal of Physical Oceanography</i> , 2008 , 38, 1401-1425 | 2.4 | 40 |
| 58 | 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 |
| 57 | Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. <i>Nature Geoscience</i> , 2017 , 10, 836-839 | 18.3 | 37 |
| 56 | The formation of the ocean's anthropogenic carbon reservoir. <i>Scientific Reports</i> , 2016 , 6, 35473 | 4.9 | 33 |
| 55 | The Water Mass Transformation Framework for Ocean Physics and Biogeochemistry. <i>Annual Review of Marine Science</i> , 2019 , 11, 271-305 | 15.4 | 33 |
| 54 | 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 |
| 53 | Filament formation and evolution in buoyant coastal waters: Observation and modelling. <i>Progress in Oceanography</i> , 2012 , 106, 118-137 | 3.8 | 31 |
| 52 | 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 |
| 51 | 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 |
| 50 | Sensitivity of numerical tracer trajectories to uncertainties in OGCM velocity fields. <i>Ocean Modelling</i> , 2002 , 4, 313-325 | 3 | 27 |

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|----|--|------|----|
| 49 | The diatom molecular toolkit to handle nitrogen uptake. <i>Marine Genomics</i> , 2015 , 24 Pt 1, 95-108 | 1.9 | 24 |
| 48 | Modelling plankton ecosystems in the meta-omics era. Are we ready?. <i>Marine Genomics</i> , 2017 , 32, 1-17 | 1.9 | 23 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | Reverse transcriptase genes are highly abundant and transcriptionally active in marine plankton assemblages. <i>ISME Journal</i> , 2016 , 10, 1134-46 | 11.9 | 20 |
| 42 | 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 |
| 41 | Genomic evidence for global ocean plankton biogeography shaped by large-scale current systems | | 20 |
| 40 | 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 |
| 39 | Meta-omics reveals genetic flexibility of diatom nitrogen transporters in response to environmental changes. <i>Molecular Biology and Evolution</i> , 2019 , | 8.3 | 17 |
| 38 | 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 |
| 37 | Response of the deep chlorophyll maximum to fluctuations in vertical mixing intensity. <i>Progress in Oceanography</i> , 2013 , 109, 33-46 | 3.8 | 16 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | Nutrient consumption and chain tuning in diatoms exposed to storm-like turbulence. <i>Scientific Reports</i> , 2017 , 7, 1828 | 4.9 | 13 |
| 32 | 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 |

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| 31 | Regulation of chain length in two diatoms as a growth-fragmentation process. <i>Physical Review E</i> , 2016 , 94, 022418 | 2.4 | 9 |
| 30 | Insights on the drivers of genetic divergence in the European anchovy. <i>Scientific Reports</i> , 2017 , 7, 4180 | 4.9 | 9 |
| 29 | Helium isotopic constraints on simulated ocean circulations: implications for abyssal theories. <i>Environmental Fluid Mechanics</i> , 2010 , 10, 257-273 | 2.2 | 9 |
| 28 | 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 |
| 27 | 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 |
| 26 | Cryptic and abundant marine viruses at the evolutionary origins of Earth's RNA virome.. <i>Science</i> , 2022 , 376, 156-162 | 33.3 | 9 |
| 25 | Mechanistic Drivers of Reemergence of Anthropogenic Carbon in the Equatorial Pacific. <i>Geophysical Research Letters</i> , 2017 , 44, 9433-9439 | 4.9 | 8 |
| 24 | 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 |
| 23 | A finite volume dynamic large-eddy simulation method for buoyancy driven turbulent geophysical flows. <i>Ocean Modelling</i> , 2007 , 17, 199-218 | 3 | 8 |
| 22 | 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 |
| 21 | High resolution SNPs selection in <i>Engraulis encrasicolus</i> through Taqman OpenArray. <i>Fisheries Research</i> , 2016 , 177, 31-38 | 2.3 | 6 |
| 20 | Functional repertoire convergence of distantly related eukaryotic plankton lineages abundant in the sunlit ocean. <i>Cell Genomics</i> , 2022 , 2, 100123 | | 6 |
| 19 | Ecogenomics and biogeochemical impacts of uncultivated globally abundant ocean viruses | | 5 |
| 18 | Open science resources for the discovery and analysis of Tara Oceans Data | | 5 |
| 17 | Environmental vulnerability of the global ocean epipelagic plankton community interactome. <i>Science Advances</i> , 2021 , 7, | 14.3 | 5 |
| 16 | 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 |
| 15 | Ocean Acidification From Below in the Tropical Pacific. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006368 | 9.9 | 4 |
| 14 | 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 |

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|----|--|------|---|
| 13 | Marine DNA Viral Macro-and Micro-Diversity From Pole to Pole. <i>SSRN Electronic Journal</i> , 2019 , | 1 | 3 |
| 12 | Restructuring of genomic provinces of surface ocean plankton under climate change | | 3 |
| 11 | Watermasses as a unifying framework for understanding the Southern Ocean carbon cycle | | 3 |
| 10 | Global drivers of eukaryotic plankton biogeography in the sunlit ocean. <i>Science</i> , 2021 , 374, 594-599 | 33.3 | 3 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |
| 6 | Environmental vulnerability of the global ocean plankton community interactome | | 2 |
| 5 | Into the bloom: Molecular response of pelagic tunicates to fluctuating food availability. <i>Molecular Ecology</i> , 2020 , 29, 292-307 | 5.7 | 2 |
| 4 | Macroscale patterns of oceanic zooplankton composition and size structure. <i>Scientific Reports</i> , 2021 , 11, 15714 | 4.9 | 2 |
| 3 | Restructuring of plankton genomic biogeography in the surface ocean under climate change. <i>Nature Climate Change</i> , 2022 , 12, 393-401 | 21.4 | 2 |
| 2 | Trade-off between sex and growth in diatoms: Molecular mechanisms and demographic implications.. <i>Science Advances</i> , 2022 , 8, eabj9466 | 14.3 | 1 |
| 1 | Strong sensitivity of Southern Ocean carbon uptake and nutrient cycling to wind stirring | | 1 |