

Francesco d'Ovidio

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

5,997
citations

201674

27
h-index

182427

51
g-index

55
all docs

55
docs citations

55
times ranked

8465
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and function of the global ocean microbiome. <i>Science</i> , 2015, 348, 1261359.	12.6	2,137
2	Determinants of community structure in the global plankton interactome. <i>Science</i> , 2015, 348, 1262073.	12.6	842
3	Deep carbon export from a Southern Ocean iron-fertilized diatom bloom. <i>Nature</i> , 2012, 487, 313-319.	27.8	367
4	Mixing structures in the Mediterranean Sea from finite-size Lyapunov exponents. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	253
5	Fluid dynamical niches of phytoplankton types. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18366-18370.	7.1	237
6	Global Observations of Fine-Scale Ocean Surface Topography With the Surface Water and Ocean Topography (SWOT) Mission. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	204
7	Dynamical quorum sensing: Population density encoded in cellular dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18377-18381.	7.1	193
8	Comparison between Eulerian diagnostics and finite-size Lyapunov exponents computed from altimetry in the Algerian basin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 15-31.	1.4	144
9	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	2.6	119
10	Polar front around the Kerguelen Islands: An up-to-date determination and associated circulation of surface/subsurface waters. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6575-6592.	2.6	108
11	Scale-dependent interactions of Mediterranean whales with marine dynamics. <i>Limnology and Oceanography</i> , 2011, 56, 219-232.	3.1	95
12	Iron fertilization enhanced net community production but not downward particle flux during the Southern Ocean iron fertilization experiment LOHAFEX. <i>Global Biogeochemical Cycles</i> , 2013, 27, 871-881.	4.9	93
13	Long range transport of a quasi isolated chlorophyll patch by an Agulhas ring. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	80
14	Delineating environmental control of phytoplankton biomass and phenology in the Southern Ocean. <i>Geophysical Research Letters</i> , 2017, 44, 5016-5024.	4.0	79
15	Hydrothermal vents trigger massive phytoplankton blooms in the Southern Ocean. <i>Nature Communications</i> , 2019, 10, 2451.	12.8	79
16	Ecological implications of eddy retention in the open ocean: a Lagrangian approach. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 254023.	2.1	78
17	Flexible preference of southern elephant seals for distinct mesoscale features within the Antarctic Circumpolar Current. <i>Progress in Oceanography</i> , 2015, 131, 46-58.	3.2	73
18	The dynamical landscape of marine phytoplankton diversity. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150481.	3.4	62

#	ARTICLE	IF	CITATIONS
19	Coherent Regimes of Globally Coupled Dynamical Systems. <i>Physical Review Letters</i> , 2003, 90, 054102.	7.8	60
20	Quasi-planktonic behavior of foraging top marine predators. <i>Scientific Reports</i> , 2015, 5, 18063.	3.3	59
21	Synchronization of glycolytic oscillations in a yeast cell population. <i>Faraday Discussions</i> , 2002, 120, 261-275.	3.2	53
22	Frigatebird behaviour at the oceanâ€™atmosphere interface: integrating animal behaviour with multi-satellite data. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3351-3358.	3.4	51
23	A Satellite-Based Lagrangian View on Phytoplankton Dynamics. <i>Annual Review of Marine Science</i> , 2018, 10, 99-119.	11.6	51
24	Synchronization of oscillators with long range interaction: Phase transition and anomalous finite size effects. <i>Physical Review E</i> , 2002, 66, 011109.	2.1	46
25	Can we detect oceanic biodiversity hotspots from space?. <i>ISME Journal</i> , 2013, 7, 2054-2056.	9.8	32
26	A review of the LATEX project: mesoscale to submesoscale processes in a coastal environment. <i>Ocean Dynamics</i> , 2017, 67, 513-533.	2.2	29
27	Local Mixing Events in the Upper Troposphere and Lower Stratosphere. Part I: Detection with the Lyapunov Diffusivity. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 3678-3694.	1.7	28
28	Dispersion/dilution enhances phytoplankton blooms in low-nutrient waters. <i>Nature Communications</i> , 2017, 8, 14868.	12.8	28
29	Frontiers in Fine-Scale in situ Studies: Opportunities During the SWOT Fast Sampling Phase. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	26
30	Large scale patterns of marine diatom richness: Drivers and trends in a changing ocean. <i>Global Ecology and Biogeography</i> , 2020, 29, 1915-1928.	5.8	26
31	Local Mixing Events in the Upper Troposphere and Lower Stratosphere. Part II: Seasonal and Interannual Variability. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 3695-3706.	1.7	25
32	Study of the phytoplankton plume dynamics off the Crozet Islands (Southern Ocean): A geochemical-physical coupled approach. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2227-2237.	2.6	25
33	Mechanisms and spatial variability of meso scale frontogenesis in the northwestern subpolar gyre. <i>Ocean Modelling</i> , 2011, 39, 97-113.	2.4	21
34	Noise-Induced Macroscopic Bifurcations in Globally Coupled Chaotic Units. <i>Physical Review Letters</i> , 2004, 92, 254101.	7.8	20
35	Controlling chaotic transients: Yorkeâ€™s game of survival. <i>Physical Review E</i> , 2004, 69, 016203.	2.1	19
36	Influence of oceanographic structures on foraging strategies: Macaroni penguins at Crozet Islands. <i>Movement Ecology</i> , 2015, 3, 32.	2.8	19

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37	Surface Salinity in the North Atlantic Subtropical Gyre During the STRASSE/SPURS Summer 2012 Cruise. <i>Oceanography</i> , 2015, 28, 114-123.	1.0	17
38	Lagrangian analysis of multi-satellite data in support of open ocean Marine Protected Area design. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 140, 212-221.	1.4	17
39	Fine-scale structures as spots of increased fish concentration in the open ocean. <i>Scientific Reports</i> , 2021, 11, 15805.	3.3	16
40	Interaction of the Antarctic Circumpolar Current With Seamounts Fuels Moderate Blooms but Vast Foraging Grounds for Multiple Marine Predators. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	14
41	Effects of microscopic disorder on the collective dynamics of globally coupled maps. <i>Physica D: Nonlinear Phenomena</i> , 2005, 205, 25-40.	2.8	10
42	Analytical tools for solitons and periodic waves corresponding to phonons on Lennard-Jones lattices in helical proteins. <i>Physical Review E</i> , 2005, 71, 026606.	2.1	8
43	Mesoscale Variability of Conditions Favoring an Iron-Induced Diatom Bloom Downstream of the Kerguelen Plateau. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3355-3367.	2.6	8
44	Fine-Scale Ocean Currents Derived From in situ Observations in Anticipation of the Upcoming SWOT Altimetric Mission. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8
45	Crossroads of the mesoscale circulation. <i>Journal of Marine Systems</i> , 2019, 192, 1-14.	2.1	7
46	Drifting Speed of Lagrangian Fronts and Oil Spill Dispersal at the Ocean Surface. <i>Remote Sensing</i> , 2021, 13, 4499.	4.0	7
47	Impact of moderately energetic fine-scale dynamics on the phytoplankton community structure in the western Mediterranean Sea. <i>Biogeosciences</i> , 2021, 18, 6455-6477.	3.3	7
48	Summertime modification of surface fronts in the North Atlantic subpolar gyre. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	6
49	Estimating planktonic diversity through spatial dominance patterns in a model ocean. <i>Marine Genomics</i> , 2016, 29, 9-17.	1.1	5
50	Redistribution of riverine and rainfall freshwater by the Bay of Bengal circulation. <i>Ocean Dynamics</i> , 2021, 71, 1113-1139.	2.2	3
51	Transport and mixing in the stratosphere: the role of Lagrangian studies. <i>ERCOFTAC Series</i> , 2007, , 57-69.	0.1	1
52	Lyapunov Exponents and Oceanic Fronts. <i>Springer Proceedings in Complexity</i> , 2017, , 199-201.	0.3	0
53	Frontal Systems as Mechanisms of Fish Aggregation. <i>Springer Proceedings in Complexity</i> , 2017, , 183-186.	0.3	0
54	Lagrangian Approach to Phytoplankton Mesoscale Biogeography in the Kerguelen Region. <i>Springer Proceedings in Complexity</i> , 2017, , 415-419.	0.3	0