

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	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	2.6	119
2	Fine-scale structures as spots of increased fish concentration in the open ocean. <i>Scientific Reports</i> , 2021, 11, 15805.	3.3	16
3	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
4	Redistribution of riverine and rainfall freshwater by the Bay of Bengal circulation. <i>Ocean Dynamics</i> , 2021, 71, 1113-1139.	2.2	3
5	Drifting Speed of Lagrangian Fronts and Oil Spill Dispersal at the Ocean Surface. <i>Remote Sensing</i> , 2021, 13, 4499.	4.0	7
6	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
7	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
8	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
9	Hydrothermal vents trigger massive phytoplankton blooms in the Southern Ocean. <i>Nature Communications</i> , 2019, 10, 2451.	12.8	79
10	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
11	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
12	Crossroads of the mesoscale circulation. <i>Journal of Marine Systems</i> , 2019, 192, 1-14.	2.1	7
13	A Satellite-Based Lagrangian View on Phytoplankton Dynamics. <i>Annual Review of Marine Science</i> , 2018, 10, 99-119.	11.6	51
14	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
15	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
16	Delineating environmental control of phytoplankton biomass and phenology in the Southern Ocean. <i>Geophysical Research Letters</i> , 2017, 44, 5016-5024.	4.0	79
17	Dispersion/dilution enhances phytoplankton blooms in low-nutrient waters. <i>Nature Communications</i> , 2017, 8, 14868.	12.8	28
18	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

#	ARTICLE	IF	CITATIONS
19	Lyapunov Exponents and Oceanic Fronts. Springer Proceedings in Complexity, 2017, , 199-201.	0.3	0
20	Frontal Systems as Mechanisms of Fish Aggregation. Springer Proceedings in Complexity, 2017, , 183-186.	0.3	0
21	Lagrangian Approach to Phytoplankton Mesoscale Biogeography in the Kerguelen Region. Springer Proceedings in Complexity, 2017, , 415-419.	0.3	0
22	Estimating planktonic diversity through spatial dominance patterns in a model ocean. Marine Genomics, 2016, 29, 9-17.	1.1	5
23	Quasi-planktonic behavior of foraging top marine predators. Scientific Reports, 2015, 5, 18063.	3.3	59
24	Influence of oceanographic structures on foraging strategies: Macaroni penguins at Crozet Islands. Movement Ecology, 2015, 3, 32.	2.8	19
25	Surface Salinity in the North Atlantic Subtropical Gyre During the STRASSE/SPURS Summer 2012 Cruise. Oceanography, 2015, 28, 114-123.	1.0	17
26	Determinants of community structure in the global plankton interactome. Science, 2015, 348, 1262073.	12.6	842
27	Structure and function of the global ocean microbiome. Science, 2015, 348, 1261359.	12.6	2,137
28	The dynamical landscape of marine phytoplankton diversity. Journal of the Royal Society Interface, 2015, 12, 20150481.	3.4	62
29	Flexible preference of southern elephant seals for distinct mesoscale features within the Antarctic Circumpolar Current. Progress in Oceanography, 2015, 131, 46-58.	3.2	73
30	Study of the phytoplankton plume dynamics off the Crozet Islands (Southern Ocean): A geochemical-physical coupled approach. Journal of Geophysical Research: Oceans, 2014, 119, 2227-2237.	2.6	25
31	Polar front around the Kerguelen Islands: An up-to-date determination and associated circulation of surface/subsurface waters. Journal of Geophysical Research: Oceans, 2014, 119, 6575-6592.	2.6	108
32	Can we detect oceanic biodiversity hotspots from space?. ISME Journal, 2013, 7, 2054-2056.	9.8	32
33	Ecological implications of eddy retention in the open ocean: a Lagrangian approach. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 254023.	2.1	78
34	Iron fertilization enhanced net community production but not downward particle flux during the Southern Ocean iron fertilization experiment LOHAFEX. Global Biogeochemical Cycles, 2013, 27, 871-881.	4.9	93
35	Frigatebird behaviour at the ocean-atmosphere interface: integrating animal behaviour with multi-satellite data. Journal of the Royal Society Interface, 2012, 9, 3351-3358.	3.4	51
36	Deep carbon export from a Southern Ocean iron-fertilized diatom bloom. Nature, 2012, 487, 313-319.	27.8	367

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37	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
38	Scale-dependent interactions of Mediterranean whales with marine dynamics. <i>Limnology and Oceanography</i> , 2011, 56, 219-232.	3.1	95
39	Mechanisms and spatial variability of meso scale frontogenesis in the northwestern subpolar gyre. <i>Ocean Modelling</i> , 2011, 39, 97-113.	2.4	21
40	Summertime modification of surface fronts in the North Atlantic subpolar gyre. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	6
41	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
42	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
43	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
44	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
45	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
46	Transport and mixing in the stratosphere: the role of Lagrangian studies. <i>ERCOTAC Series</i> , 2007, , 57-69.	0.1	1
47	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
48	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
49	Noise-Induced Macroscopic Bifurcations in Globally Coupled Chaotic Units. <i>Physical Review Letters</i> , 2004, 92, 254101.	7.8	20
50	Controlling chaotic transients: Yorke's game of survival. <i>Physical Review E</i> , 2004, 69, 016203.	2.1	19
51	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
52	Coherent Regimes of Globally Coupled Dynamical Systems. <i>Physical Review Letters</i> , 2003, 90, 054102.	7.8	60
53	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
54	Synchronization of glycolytic oscillations in a yeast cell population. <i>Faraday Discussions</i> , 2002, 120, 261-275.	3.2	53