Maurizio Ribera d'Alcala'

List of Publications by Year
in descending order

96 papers	5,568 citations	76294 40 h-index	85498 71 g-index
102 all docs	102 docs citations	102 times ranked	5456 citing authors

#	Article	IF	Citations
1	Plankton in the open Mediterranean Sea: a review. Biogeosciences, 2010, 7, 1543-1586.	1.3	494
2	On the trophic regimes of the Mediterranean Sea: a satellite analysis. Biogeosciences, 2009, 6, 139-148.	1.3	427
3	A synthesis of the Ionian Sea hydrography, circulation and water mass pathways during POEM-Phase I. Progress in Oceanography, 1997, 39, 153-204.	1.5	277
4	The Eastern Mediterranean in the 80s and in the 90s: the big transition in the intermediate and deep circulations. Dynamics of Atmospheres and Oceans, 1999, 29, 365-395.	0.7	267
5	Seasonal patterns in plankton communities in a pluriannual time series at a coastal Mediterranean site (Gulf of Naples): an attempt to discern recurrences and trends. Scientia Marina, 2004, 68, 65-83.	0.3	258
6	The colour of the Mediterranean Sea: Global versus regional bio-optical algorithms evaluation and implication for satellite chlorophyll estimates. Remote Sensing of Environment, 2007, 107, 625-638.	4.6	210
7	Exploring the molecular basis of responses to light in marine diatoms. Journal of Experimental Botany, 2012, 63, 1575-1591.	2.4	173
8	Perception of Environmental Signals by a Marine Diatom. Science, 2000, 288, 2363-2366.	6.0	166
9	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. Ocean Science, 2014, 10, 281-322.	1.3	154
10	Recurrent patterns in zooplankton structure and succession in a variable coastal environment. ICES Journal of Marine Science, 1995, 52, 679-691.	1.2	123
11	Nutrient ratios and fluxes hint at overlooked processes in the Mediterranean Sea. Journal of Geophysical Research, 2003, 108, .	3.3	120
12	Ecological-network models link diversity, structure and function in the plankton food-web. Scientific Reports, 2016, 6, 21806.	1.6	110
13	Validation of empirical SeaWiFS algorithms for chlorophyll-a retrieval in the Mediterranean Sea. Remote Sensing of Environment, 2002, 82, 79-94.	4.6	106
14	Diatom Phytochromes Reveal the Existence of Far-Red-Light-Based Sensing in the Ocean. Plant Cell, 2016, 28, 616-628.	3.1	105
15	The time for sex: A biennial life cycle in a marine planktonic diatom. Limnology and Oceanography, 2010, 55, 106-114.	1.6	94
16	On the vertical distribution of the chlorophyll <i>a</i> concentration in the Mediterranean Sea: a basin-scale and seasonal approach. Biogeosciences, 2015, 12, 5021-5039.	1.3	90
17	Is the Adriatic returning to dominate the production of Eastern Mediterranean Deep Water?. Geophysical Research Letters, 2000, 27, 3377-3380.	1.5	79
18	Communityâ€Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. Global Biogeochemical Cycles, 2019, 33, 391-419.	1.9	76

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19	Composition and dynamics of the phytoplankton of the Ionian Sea (eastern Mediterranean). Journal of Geophysical Research, 2003, 108, .	3.3	73
20	Colloquium on diatom-copepod interactions. Marine Ecology - Progress Series, 2005, 286, 293-305.	0.9	68
21	Water masses as a unifying framework for understanding the Southern Ocean Carbon Cycle. Biogeosciences, 2011, 8, 1031-1052.	1.3	66
22	Enhancing the comprehension of mixed layer depth control on the Mediterranean phytoplankton phenology. Journal of Geophysical Research: Oceans, 2013, 118, 3416-3430.	1.0	65
23	Coastal Phytoplankton Do Not Rest in Winter. Estuaries and Coasts, 2010, 33, 342-361.	1.0	61
24	Circadian variability in the photobiology of Phaeodactylum tricornutum: pigment content. Journal of Plankton Research, 2007, 29, 141-156.	0.8	60
25	Seasonal variability of nutrient concentrations in the <scp>M</scp>editerranean <scp>S</scp>ea: Contribution of <scp>B</scp>ioâ€<scp>A</scp>rgo floats. Journal of Geophysical Research: Oceans, 2015, 120, 8528-8550.	1.0	59
26	Temporal variability of nutrient concentrations in the northwestern Mediterranean sea (DYFAMED) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	58
27	Variability in the Hydrographic and Biological Features of the Gulf of Naples. Marine Ecology, 1980, 1, 105-120.	0.4	57
28	Light sensing and responses in marine microalgae. Current Opinion in Plant Biology, 2017, 37, 70-77.	3.5	56
29	Contamination by hazardous substances in the Gulf of Naples and nearby coastal areas: A review of sources, environmental levels and potential impacts in the MSFD perspective. Science of the Total Environment, 2014, 466-467, 820-840.	3.9	55
30	Spatial and temporal variability of size-fractionated biomass and primary production in the Ross Sea (Antarctica) during austral spring and summer. Journal of Marine Systems, 1998, 17, 115-127.	0.9	53
31	Mesoscale features of phytoplankton and planktonic bacteria in a coastal area as induced by external water masses. Marine Ecology - Progress Series, 2000, 195, 15-27.	0.9	53
32	Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. Nature Geoscience, 2017, 10, 836-839.	5.4	52
33	Stability and resilience in coastal copepod assemblages: The case of the Mediterranean long-term ecological research at Station MC (LTER-MC). Progress in Oceanography, 2012, 97-100, 135-151.	1.5	51
34	Centennial- to millennial-scale climate oscillations in the Central-Eastern Mediterranean Sea between 20,000 and 70,000 years ago: evidence from a high-resolution geochemical and micropaleontological record. Quaternary Science Reviews, 2012, 46, 126-135.	1.4	50
35	The diatom molecular toolkit to handle nitrogen uptake. Marine Genomics, 2015, 24, 95-108.	0.4	48
36	Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system. Scientific Reports, 2017, 7, 15868.	1.6	47

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37	Water mass properties and chemical signatures in the central Mediterranean region. Journal of Marine Systems, 2002, 33-34, 155-177.	0.9	46
38	Did biological activity in the Ionian Sea change after the Eastern Mediterranean Transient? Results from the analysis of remote sensing observations. Journal of Geophysical Research, 2003, 108, .	3.3	46
39	Microbial contribution to carbon biogeochemistry in the Central Mediterranean Sea: Variability of activities and biomass. Journal of Marine Systems, 2005, 57, 146-166.	0.9	45
40	â€˜St Martin's Summerâ€™: the case of an autumn phytoplankton bloom in the Gulf of Naples (Mediterranean Sea). Journal of Plankton Research, 1995, 17, 575-593.	0.8	44
41	Accelerated oxygen consumption in eastern Mediterranean deep waters following the recent changes in thermohaline circulation. Journal of Geophysical Research, 2003, 108, .	3.3	42
42	Light as an information carrier underwater. Journal of Plankton Research, 2004, 26, 433-443.	0.8	42
43	A MSFD complementary approach for the assessment of pressures, knowledge and data gaps in Southern European Seas: The PERSEUS experience. Marine Pollution Bulletin, 2015, 95, 28-39.	2.3	41
44	Influence of stratification on marine dissolved organic carbon (DOC) dynamics: The Mediterranean Sea case. Progress in Oceanography, 2013, 119, 68-77.	1.5	40
45	Bacterial processes in the intermediate and deep layers of the Ionian Sea in winter 1999: Vertical profiles and their relationship to the different water masses. Journal of Geophysical Research, 2003, 108, .	3.3	39
46	Filament formation and evolution in buoyant coastal waters: Observation and modelling. Progress in Oceanography, 2012, 106, 118-137.	1.5	37
47	The greenâ€“blue swing: plasticity of plankton foodâ€webs in response to coastal oceanographic dynamics. Marine Ecology, 2015, 36, 1155-1170.	0.4	35
48	Experiment in eastern Mediterranean probes origin of deep water masses. Eos, 1996, 77, 305.	0.1	33
49	Distribution patterns of carbon oxidation in the eastern Mediterranean Sea: Evidence of changes in the remineralization processes. Journal of Geophysical Research, 2003, 108, .	3.3	32
50	Conservative features of picoplankton in a Mediterranean eutrophic area, the Bay of Naples. Journal of Plankton Research, 1996, 18, 87-95.	0.8	29
51	Phenological changes of oceanic phytoplankton in the 1980s and 2000s as revealed by remotely sensed ocean-color observations. Global Biogeochemical Cycles, 2012, 26, n/a-n/a.	1.9	29
52	Modelling plankton ecosystems in the meta-omics era. Are we ready?. Marine Genomics, 2017, 32, 1-17.	0.4	29
53	Marine diatoms change their gene expression profile when exposed to microscale turbulence under nutrient replete conditions. Scientific Reports, 2017, 7, 3826.	1.6	27
54	Modelling the complexity of plankton communities exploiting omics potential: From present challenges to an integrative pipeline. Current Opinion in Systems Biology, 2019, 13, 68-74.	1.3	27

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55	Structural analysis of winter phytoplankton in the Gulf of Naples. Journal of Plankton Research, 1981, 3, 291-314.	0.8	26
56	Productivity modes in the Mediterranean Sea during Dansgaardâ€“Oeschger (20,000â€“70,000yr ago) oscillations. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 392, 128-137.	1.0	26
57	Large scale patterns of marine diatom richness: Drivers and trends in a changing ocean. Global Ecology and Biogeography, 2020, 29, 1915-1928.	2.7	26
58	Nutrient consumption and chain tuning in diatoms exposed to storm-like turbulence. Scientific Reports, 2017, 7, 1828.	1.6	25
59	Seasonal variation in UVA light drives hormonal and behavioural changes in a marine annelid via a ciliary opsin. Nature Ecology and Evolution, 2021, 5, 204-218.	3.4	24
60	Numerical analysis of cumulative impact of phytoplankton photoresponses to light variation on carbon assimilation. Journal of Theoretical Biology, 2009, 261, 361-371.	0.8	23
61	Meta-Omics Reveals Genetic Flexibility of Diatom Nitrogen Transporters in Response to Environmental Changes. Molecular Biology and Evolution, 2019, 36, 2522-2535.	3.5	23
62	Lagrangian description of zooplankton swimming trajectories. Journal of Plankton Research, 2004, 26, 99-105.	0.8	22
63	A Conceptual Framework for Developing the Next Generation of Marine OBservatories (MOBs) for Science and Society. Frontiers in Marine Science, 2018, 5, .	1.2	22
64	Water quality monitoring by thematic mapper in coastal environments. A performance analysis of local biooptical algorithms and atmospheric correction procedures. Remote Sensing of Environment, 1993, 45, 177-191.	4.6	21
65	Rewiring and indirect effects underpin modularity reshuffling in a marine food web under environmental shifts. Ecology and Evolution, 2019, 9, 11631-11646.	0.8	20
66	Ba/Ca evolution in water masses of the Mediterranean late Neogene. Paleoceanography, 2008, 23, .	3.0	18
67	Effects of food conditions on the development of the population of Temora stylifera: A modeling approach. Journal of Marine Systems, 2006, 62, 71-84.	0.9	17
68	Unexpected Regularity in Swimming Behavior of Clausocalanus furcatus Revealed by a Telecentric 3D Computer Vision System. PLoS ONE, 2013, 8, e67640.	1.1	17
69	Nutrient and pigment distributions in the southern Tyrrhenian Sea during mid-summer and late fall 2005. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 676-686.	0.6	15
70	Hydrodynamic interactions at low Reynolds number: an overlooked mechanism favouring diatom encounters. Journal of Plankton Research, 2013, 35, 914-918.	0.8	14
71	Profiling float observation of thermohaline staircases in the western Mediterranean Sea and impact on nutrient fluxes. Biogeosciences, 2020, 17, 3343-3366.	1.3	14
72	Ecological assessment of anthropogenic impact in marine ecosystems: The case of Bagnoli Bay. Marine Environmental Research, 2020, 158, 104953.	1.1	13

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73	Densityâ€dependent mechanisms regulate spore formation in the diatom <scp>Chaetoceros socialis</scp>. Limnology and Oceanography Letters, 2020, 5, 371-378.	1.6	13
74	Regulation of chain length in two diatoms as a growth-fragmentation process. Physical Review E, 2016, 94, 022418.	0.8	10
75	Trade-off between sex and growth in diatoms: Molecular mechanisms and demographic implications. Science Advances, 2022, 8, eabj9466.	4.7	10
76	A numerical investigation of the impact of turbulence on the feeding rates of Oithona davisae. Journal of Marine Systems, 2008, 70, 273-286.	0.9	9
77	Effects of small-scale turbulence on two species of Dinophysis. Harmful Algae, 2019, 89, 101654.	2.2	9
78	Coupling mixing and photophysiological response of Antarctic plankton: a Lagrangian approach. Antarctic Science, 2004, 16, 133-142.	0.5	8
79	An object-oriented model for the prediction of turbulence effects on plankton. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 1287-1307.	0.6	8
80	Integrative omics identification, evolutionary and structural analysis of low affinity nitrate transporters in diatoms, diNPFs. Open Biology, 2021, 11, 200395.	1.5	8
81	Similarities, differences and mechanisms of climate impact on terrestrial vs. marine ecosystems. Nature Conservation, 0, 34, 505-523.	0.0	7
82	Evidence of Covid-19 lockdown effects on riverine dissolved organic matter dynamics provides a proof-of-concept for needed regulations of anthropogenic emissions. Science of the Total Environment, 2022, 812, 152412.	3.9	7
83	Aptamers are an innovative and promising tool for phytoplankton taxonomy and biodiversity research. Chemistry and Ecology, 2015, 31, 92-103.	0.6	5
84	TURBOGEN: Computer-controlled vertically oscillating grid system for small-scale turbulence studies on plankton. Review of Scientific Instruments, 2016, 87, 035119.	0.6	5
85	BGCâ€Argo Floats Observe Nitrate Injection and Spring Phytoplankton Increase in the Surface Layer of Levantine Sea (Eastern Mediterranean). Geophysical Research Letters, 2021, 48, e2020GL091649.	1.5	5
86	Homeostatic swimming of zooplankton upon crowding: the case of the copepod Centropages typicus. Journal of the Royal Society Interface, 2021, 18, 20210270.	1.5	5
87	Primary production variability in the Mediterranean Sea from SeaWiFS data. , 2004, 5233, 371.		4
88	An individual-based analysis of the dynamics of two coexisting phytoplankton species in the mixed layer. Ecological Modelling, 2009, 220, 2380-2392.	1.2	4
89	Surface transport of DOC acts as a trophic link among Mediterranean sub-basins. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 170, 103493.	0.6	4
90	Sources of the Levantine Intermediate Water in Winter 2019. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	4

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91	The Eastern Mediterranean in the 80â€™s and in the 90â€™s: The Big Transition Emerged from the Poem-Bc Observational Evidence. , 1999, , 1-6.		3
92	Distinctive diffusive properties of swimming planktonic copepods in different environmental conditions. European Physical Journal E, 2018, 41, 79.	0.7	2
93	Science for Good Environmental Status: A European Joint Action to Support Marine Policy. Sustainability, 2021, 13, 8664.	1.6	2
94	Ecological Physiognomy of the Eastern Mediterranean. , 1999, , 49-64.		2
95	<title>SYMPLEX experiment: first results on oceanic mesoscale dynamics and related primary production from AVHRR and SeaWIFS satellite data and field experiments</title>. , 1998, 3496, 137.		1
96	<title>Empirical SeaWiFS chlorophyll algorithm validation for the Mediterranean Sea</title>. , 2000, 4172, 124.		1