

Rafel Coma

List of Publications by Year in descending order

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73
papers

6,129
citations

57758
44
h-index

79698
73
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76
all docs

76
docs citations

76
times ranked

4589
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass mortality in Northwestern Mediterranean rocky benthic communities: effects of the 2003 heat wave. <i>Global Change Biology</i> , 2009, 15, 1090-1103.	9.5	786
2	Benthic suspension feeders: their paramount role in littoral marine food webs. <i>Trends in Ecology and Evolution</i> , 1998, 13, 316-321.	8.7	544
3	Global warming-enhanced stratification and mass mortality events in the Mediterranean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6176-6181.	7.1	344
4	Seasonality in coastal benthic ecosystems. <i>Trends in Ecology and Evolution</i> , 2000, 15, 448-453.	8.7	253
5	Natural diet and grazing rate of the temperate sponge <i>Dysidea avara</i> (Demospongiae, Dendroceratida) throughout an annual cycle. <i>Marine Ecology - Progress Series</i> , 1999, 176, 179-190.	1.9	199
6	Size distribution, density and disturbance in two Mediterranean gorgonians: <i>Paramuricea clavata</i> and <i>Eunicella singularis</i> . <i>Journal of Applied Ecology</i> , 2008, 45, 688-699.	4.0	151
7	Immediate and delayed effects of a mass mortality event on gorgonian population dynamics and benthic community structure in the NW Mediterranean Sea. <i>Marine Ecology - Progress Series</i> , 2005, 305, 127-137.	1.9	143
8	Functional convergence of microbes associated with temperate marine sponges. <i>Environmental Microbiology</i> , 2012, 14, 1224-1239.	3.8	140
9	Effects of climate change on Mediterranean marine ecosystems: the case of the Catalan Sea. <i>Climate Research</i> , 2011, 50, 1-29.	1.1	137
10	LIFE HISTORY AND VIABILITY OF A LONG-LIVED MARINE INVERTEBRATE: THE OCTOCORALPARAMURICEA CLAVATA. <i>Ecology</i> , 2007, 88, 918-928.	3.2	122
11	Reproduction and cycle of gonadal development in the Mediterranean gorgonian <i>Paramuricea clavata</i> . <i>Marine Ecology - Progress Series</i> , 1995, 117, 173-183.	1.9	120
12	LONG-TERM ASSESSMENT OF TEMPERATE OCTOCORAL MORTALITY PATTERNS, PROTECTED VS. UNPROTECTED AREAS. , 2004, 14, 1466-1478.		114
13	From global to local genetic structuring in the red gorgonian <i>Paramuricea clavata</i> : the interplay between oceanographic conditions and limited larval dispersal. <i>Molecular Ecology</i> , 2011, 20, 3291-3305.	3.9	110
14	Seasonal energetic constraints in Mediterranean benthic suspension feeders: effects at different levels of ecological organization. <i>Oikos</i> , 2003, 101, 205-215.	2.7	105
15	Are Antarctic suspension-feeding communities different from those elsewhere in the world?. <i>Polar Biology</i> , 2001, 24, 473-485.	1.2	101
16	Heterotrophic feeding by gorgonian corals with symbiotic zooxanthella. <i>Limnology and Oceanography</i> , 1998, 43, 1170-1179.	3.1	96
17	Heterogeneous feeding in benthic suspension feeders:the natural diet and grazing rate of the temperate gorgonian <i>Paramuricea clavata</i> (Cnidaria:Octocorallia) over a year cycle. <i>Marine Ecology - Progress Series</i> , 1999, 183, 125-137.	1.9	95
18	Feeding and prey capture cycles in the aposymbiotic gorgonian <i>Paramuricea clavata</i> . <i>Marine Ecology - Progress Series</i> , 1994, 115, 257-270.	1.9	94

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19	Growth in a Modular Colonial Marine Invertebrate. <i>Estuarine, Coastal and Shelf Science</i> , 1998, 47, 459-470.	2.1	86
20	Temporal variability in abundance of the sea urchins <i>Paracentrotus lividus</i> and <i>Arbacia lixula</i> in the northwestern Mediterranean: comparison between a marine reserve and an unprotected area. <i>Marine Ecology - Progress Series</i> , 1998, 168, 135-145.	1.9	86
21	Consequences of a mass mortality in populations of <i>Eunicella singularis</i> (Cnidaria: Octocorallia) in Menorca (NW Mediterranean). <i>Marine Ecology - Progress Series</i> , 2006, 327, 51-60.	1.9	84
22	Sponges and ascidians control removal of particulate organic nitrogen from coral reef water. <i>Limnology and Oceanography</i> , 2005, 50, 1480-1489.	3.1	78
23	Seasonal variation of particulate organic carbon, dissolved organic carbon and the contribution of microbial communities to the live particulate organic carbon in a shallow near-bottom ecosystem at the Northwestern Mediterranean Sea. <i>Journal of Plankton Research</i> , 1999, 21, 1077-1100.	1.8	74
24	An energetic approach to the study of life-history traits of two modular colonial benthic invertebrates. <i>Marine Ecology - Progress Series</i> , 1998, 162, 89-103.	1.9	74
25	In situ Rates of Fertilization Among Broadcast Spawning Gorgonian Corals. <i>Biological Bulletin</i> , 1996, 190, 45-55.	1.8	73
26	Stable symbionts across the HMA-LMA dichotomy: low seasonal and interannual variation in sponge-associated bacteria from taxonomically diverse hosts. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv115.	2.7	73
27	Particle removal by coral reef communities: picoplankton is a major source of nitrogen. <i>Marine Ecology - Progress Series</i> , 2003, 257, 13-23.	1.9	73
28	Trophic niche separation that facilitates coexistence of high and low microbial abundance sponges is revealed by in situ study of carbon and nitrogen fluxes. <i>Limnology and Oceanography</i> , 2017, 62, 1963-1983.	3.1	72
29	Heterotrophy in the earliest gut: a single-cell view of heterotrophic carbon and nitrogen assimilation in sponge-microbe symbioses. <i>ISME Journal</i> , 2020, 14, 2554-2567.	9.8	72
30	Sexual reproductive effort in the Mediterranean gorgonian <i>Paramuricea clavata</i> . <i>Marine Ecology - Progress Series</i> , 1995, 117, 185-192.	1.9	68
31	The ultimate opportunists: consumers of seston. <i>Marine Ecology - Progress Series</i> , 2001, 219, 305-308.	1.9	67
32	Biodiversity loss in a Mediterranean ecosystem due to an extreme warming event unveils the role of an engineering gorgonian species. <i>Scientific Reports</i> , 2019, 9, 5911.	3.3	66
33	Seasonality of in situ respiration rate in three temperate benthic suspension feeders. <i>Limnology and Oceanography</i> , 2002, 47, 324-331.	3.1	65
34	Temporal variation in protein, carbohydrate, and lipid concentrations in <i>Paramuricea clavata</i> (Anthozoa, Octocorallia): evidence for summer–autumn feeding constraints. <i>Marine Biology</i> , 2006, 149, 643-651.	1.5	63
35	Spatial variability in reproductive cycle of the gorgonians <i>Paramuricea clavata</i> and <i>Eunicella singularis</i> (Anthozoa, Octocorallia) in the Western Mediterranean Sea. <i>Marine Biology</i> , 2007, 151, 1571-1584.	1.5	61
36	Restructuring of the sponge microbiome favors tolerance to ocean acidification. <i>Environmental Microbiology Reports</i> , 2016, 8, 536-544.	2.4	60

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37	Temporal variability in zooplankton prey capture rate of the passive suspension feeder <i>Leptogorgia sarmentosa</i> (Cnidaria: Octocorallia), a case study. <i>Marine Biology</i> , 2004, 144, 89-99.	1.5	59
38	Size Is the Major Determinant of Pumping Rates in Marine Sponges. <i>Frontiers in Physiology</i> , 2019, 10, 1474.	2.8	57
39	Early life history of the Mediterranean gorgonian <i>Paramuricea clavata</i> : implications for population dynamics. <i>Invertebrate Biology</i> , 2008, 127, 1-11.	0.9	56
40	Effects of Spatial Distribution and Reproductive Biology on in situ Fertilization Rates of a Broadcast-Spawning Invertebrate. <i>Biological Bulletin</i> , 1997, 193, 20-29.	1.8	54
41	Cycle of gonadal development in <i>Eunicella singularis</i> (Cnidaria: Octocorallia): trends in sexual reproduction in gorgonians. <i>Invertebrate Biology</i> , 2007, 126, 307-317.	0.9	54
42	Seasonal variation of in situ feeding rates by the temperate ascidian <i>Halocynthia papillosa</i> . <i>Marine Ecology - Progress Series</i> , 1998, 175, 201-213.	1.9	54
43	Natural feeding of the temperate asymbiotic octocoral-gorgonian <i>Leptogorgia sarmentosa</i> (Cnidaria: Tj ETQq1 1 0.784314 rgBT /Ove	1.9	53
44	Small-scale heterogeneity of fertilization success in a broadcast spawning octocoral. <i>Journal of Experimental Marine Biology and Ecology</i> , 1997, 214, 107-120.	1.5	50
45	Rapid Northward Spread of a Zooxanthellate Coral Enhanced by Artificial Structures and Sea Warming in the Western Mediterranean. <i>PLoS ONE</i> , 2013, 8, e52739.	2.5	47
46	Effects of a mass mortality event on gorgonian reproduction. <i>Coral Reefs</i> , 2008, 27, 27-34.	2.2	46
47	Restoration of threatened red gorgonian populations: An experimental and modelling approach. <i>Biological Conservation</i> , 2008, 141, 427-437.	4.1	46
48	Sea Urchins Predation Facilitates Coral Invasion in a Marine Reserve. <i>PLoS ONE</i> , 2011, 6, e22017.	2.5	46
49	Microbial Diversity and Putative Diazotrophy in High- and Low-Microbial-Abundance Mediterranean Sponges. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5683-5693.	3.1	43
50	Effects of turf algae on recruitment and juvenile survival of gorgonian corals. <i>Marine Ecology - Progress Series</i> , 2012, 452, 81-88.	1.9	38
51	Trophic ecology of a benthic marine hydroid, <i>Campanularia everta</i> . <i>Marine Ecology - Progress Series</i> , 1995, 119, 211-220.	1.9	36
52	Evidence for coral range expansion accompanied by reduced diversity of <i>Symbiodinium</i> genotypes. <i>Coral Reefs</i> , 2017, 36, 981-985.	2.2	35
53	Calcification reduction and recovery in native and non-native Mediterranean corals in response to ocean acidification. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 438, 144-153.	1.5	34
54	Specificity and temporal dynamics of complex bacteria-sponge symbiotic interactions. <i>Ecology</i> , 2013, 94, 2781-2791.	3.2	33

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55	Prey capture by a benthic coral reef hydrozoan. Coral Reefs, 1999, 18, 141-145.	2.2	29
56	Role of evolutionary and ecological factors in the reproductive success and the spatial genetic structure of the temperate gorgonian <i>Pseudosolenia clavata</i> . Ecology and Evolution, 2013, 3, 1765-1779.	1.9	29
57	Regional and local environmental conditions do not shape the response to warming of a marine habitat-forming species. Scientific Reports, 2017, 7, 5069.	3.3	26
58	Host-targeted RAD-Seq reveals genetic changes in the coral <i>Oculina patagonica</i> associated with range expansion along the Spanish Mediterranean coast. Molecular Ecology, 2018, 27, 2529-2543.	3.9	26
59	Horizontal Transfer of Matter by a Cave-Dwelling Mysid. Marine Ecology, 1997, 18, 211-226.	1.1	23
60	A phase shift from macroalgal to coral dominance in the Mediterranean. Coral Reefs, 2012, 31, 1199-1199.	2.2	21
61	Annual response of two Mediterranean azooxanthellate temperate corals to low-pH and high-temperature conditions. Marine Biology, 2016, 163, 1.	1.5	18
62	Polyp bail-out by the coral <i>Astroides calicularis</i> (Scleractinia, Dendrophylliidae). Marine Biodiversity, 2018, 48, 1661-1665.	1.0	18
63	A semi-closed recirculating system for the in situ study of feeding and respiration of benthic suspension feeders. Scientia Marina, 2000, 64, 265-275.	0.6	16
64	In situ Pumping Rate of 20 Marine Demosponges Is a Function of Osculum Area. Frontiers in Marine Science, 2021, 8, .	2.5	14
65	A comparison of remote-sensing SST and in situ seawater temperature in near-shore habitats in the western Mediterranean Sea. Marine Ecology - Progress Series, 2016, 559, 21-34.	1.9	14
66	Small-scale spatial heterogeneity and seasonal variation in a population of a cave-dwelling Mediterranean mysid. Journal of Plankton Research, 1996, 18, 659-671.	1.8	11
67	The population dynamics of <i>Orthopyxis crenata</i> (Hartlaub, 1901) (Hydrozoa, Cnidaria), an epiphyte of <i>Halimeda tuna</i> in the northwestern Mediterranean. Journal of Experimental Marine Biology and Ecology, 1991, 150, 283-292.	1.5	10
68	VacuSIP, an Improved InEx Method for In Situ Measurement of Particulate and Dissolved Compounds Processed by Active Suspension Feeders. Journal of Visualized Experiments, 2016, .	0.3	10
69	Natural heterotrophic feeding by a temperate octocoral with symbiotic zooxanthellae: a contribution to understanding the mechanisms of die-off events. Coral Reefs, 2015, 34, 549-560.	2.2	9
70	Demographics of the zooxanthellate coral <i>Oculina patagonica</i> along the Mediterranean Iberian coast in relation to environmental parameters. Science of the Total Environment, 2018, 634, 1580-1592.	8.0	8
71	Recurrent partial mortality events in winter shape the dynamics of the zooxanthellate coral <i>Oculina patagonica</i> at high latitude in the Mediterranean. Coral Reefs, 2017, 36, 27-38.	2.2	7
72	Quantification of sexual reproduction in the marine benthic hydroid <i>Campanularia everta</i> . Marine Biology, 1996, 125, 365-373.	1.5	6

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73	General Ecological Aspects of Anthozoan-Symbiodinium Interactions in the Mediterranean Sea. , 2016, , 375-386.		4