Rafel Coma

List of Publications by Year
in descending order

73 papers	6,129 citations	57758 44 h-index	79698 73 g-index
76 all docs	76 docs citations	76 times ranked	4589 citing authors

#	Article	IF	Citations
1	In situ Pumping Rate of 20 Marine Demosponges Is a Function of Osculum Area. Frontiers in Marine Science, 2021, 8, .	2.5	14
2	Heterotrophy in the earliest gut: a single-cell view of heterotrophic carbon and nitrogen assimilation in sponge-microbe symbioses. ISME Journal, 2020, 14, 2554-2567.	9.8	72
3	Biodiversity loss in a Mediterranean ecosystem due to an extreme warming event unveils the role of an engineering gorgonian species. Scientific Reports, 2019, 9, 5911.	3.3	66
4	Size Is the Major Determinant of Pumping Rates in Marine Sponges. Frontiers in Physiology, 2019, 10, 1474.	2.8	57
5	Demographics of the zooxanthellate coral Oculina patagonica along the Mediterranean Iberian coast in relation to environmental parameters. Science of the Total Environment, 2018, 634, 1580-1592.	8.0	8
6	Hostâ€targeted <scp>RAD</scp>â€Seq reveals genetic changes in the coral Oculina patagonica associated with range expansion along the Spanish Mediterranean coast. Molecular Ecology, 2018, 27, 2529-2543.	3.9	26
7	Polyp bail-out by the coral Astroides calycularis (Scleractinia, Dendrophylliidae). Marine Biodiversity, 2018, 48, 1661-1665.	1.0	18
8	Trophic niche separation that facilitates coâ€existence of high and low microbial abundance sponges is revealed by in situ study of carbon and nitrogen fluxes. Limnology and Oceanography, 2017, 62, 1963-1983.	3.1	72
9	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
10	Evidence for coral range expansion accompanied by reduced diversity of Symbiodinium genotypes. Coral Reefs, 2017, 36, 981-985.	2.2	35
11	Recurrent partial mortality events in winter shape the dynamics of the zooxanthellate coral Oculina patagonica at high latitude in the Mediterranean. Coral Reefs, 2017, 36, 27-38.	2.2	7
12	Restructuring of the sponge microbiome favors tolerance to ocean acidification. Environmental Microbiology Reports, 2016, 8, 536-544.	2.4	60
13	Annual response of two Mediterranean azooxanthellate temperate corals to low-pH and high-temperature conditions. Marine Biology, 2016, 163, 1.	1.5	18
14	General Ecological Aspects of Anthozoan-Symbiodinium Interactions in the Mediterranean Sea. , 2016, , 375-386.		4
15	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
16	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
17	Microbial Diversity and Putative Diazotrophy in High- and Low-Microbial-Abundance Mediterranean Sponges. Applied and Environmental Microbiology, 2015, 81, 5683-5693.	3.1	43
18	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

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19	Stable symbionts across the HMA-LMA dichotomy: low seasonal and interannual variation in sponge-associated bacteria from taxonomically diverse hosts. FEMS Microbiology Ecology, 2015, 91, fiv115.	2.7	73
20	Specificity and temporal dynamics of complex bacteriaâ€“sponge symbiotic interactions. Ecology, 2013, 94, 2781-2791.	3.2	33
21	Role of evolutionary and ecological factors in the reproductive success and the spatial genetic structure of the temperate gorgonian <scp>P</scp>aramuricea clavata. Ecology and Evolution, 2013, 3, 1765-1779.	1.9	29
22	Rapid Northward Spread of a Zooxanthellate Coral Enhanced by Artificial Structures and Sea Warming in the Western Mediterranean. PLoS ONE, 2013, 8, e52739.	2.5	47
23	Effects of turf algae on recruitment and juvenile survival of gorgonian corals. Marine Ecology - Progress Series, 2012, 452, 81-88.	1.9	38
24	Calcification reduction and recovery in native and non-native Mediterranean corals in response to ocean acidification. Journal of Experimental Marine Biology and Ecology, 2012, 438, 144-153.	1.5	34
25	A phase shift from macroalgal to coral dominance in the Mediterranean. Coral Reefs, 2012, 31, 1199-1199.	2.2	21
26	Functional convergence of microbes associated with temperate marine sponges. Environmental Microbiology, 2012, 14, 1224-1239.	3.8	140
27	From global to local genetic structuring in the red gorgonian Paramuricea clavata: the interplay between oceanographic conditions and limited larval dispersal. Molecular Ecology, 2011, 20, 3291-3305.	3.9	110
28	Sea Urchins Predation Facilitates Coral Invasion in a Marine Reserve. PLoS ONE, 2011, 6, e22017.	2.5	46
29	Effects of climate change on Mediterranean marine ecosystems: the case of the Catalan Sea. Climate Research, 2011, 50, 1-29.	1.1	137
30	Global warming-enhanced stratification and mass mortality events in the Mediterranean. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6176-6181.	7.1	344
31	Mass mortality in Northwestern Mediterranean rocky benthic communities: effects of the 2003 heat wave. Global Change Biology, 2009, 15, 1090-1103.	9.5	786
32	Effects of a mass mortality event on gorgonian reproduction. Coral Reefs, 2008, 27, 27-34.	2.2	46
33	Early life history of the Mediterranean gorgonian Paramuricea clavata: implications for population dynamics. Invertebrate Biology, 2008, 127, 1-11.	0.9	56
34	Size distribution, density and disturbance in two Mediterranean gorgonians: Paramuricea clavata and Eunicella singularis. Journal of Applied Ecology, 2008, 45, 688-699.	4.0	151
35	Restoration of threatened red gorgonian populations: An experimental and modelling approach. Biological Conservation, 2008, 141, 427-437.	4.1	46
36	LIFE HISTORY AND VIABILITY OF A LONG-LIVED MARINE INVERTEBRATE: THE OCTOCORALPARAMURICEA CLAVATA. Ecology, 2007, 88, 918-928.	3.2	122

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37	Cycle of gonadal development in Eunicella singularis (Cnidaria: Octocorallia): trends in sexual reproduction in gorgonians. Invertebrate Biology, 2007, 126, 307-317.	0.9	54
38	Spatial variability in reproductive cycle of the gorgonians Paramuricea clavata and Eunicella singularis (Anthozoa, Octocorallia) in the Western Mediterranean Sea. Marine Biology, 2007, 151, 1571-1584.	1.5	61
39	Temporal variation in protein, carbohydrate, and lipid concentrations in Paramuricea clavata (Anthozoa, Octocorallia): evidence for summerâ€“autumn feeding constraints. Marine Biology, 2006, 149, 643-651.	1.5	63
40	Consequences of a mass mortality in populations of Eunicella singularis (Cnidaria: Octocorallia) in Menorca (NW Mediterranean). Marine Ecology - Progress Series, 2006, 327, 51-60.	1.9	84
41	Sponges and ascidians control removal of particulate organic nitrogen from coral reef water. Limnology and Oceanography, 2005, 50, 1480-1489.	3.1	78
42	Immediate and delayed effects of a mass mortality event on gorgonian population dynamics and benthic community structure in the NW Mediterranean Sea. Marine Ecology - Progress Series, 2005, 305, 127-137.	1.9	143
43	Temporal variability in zooplankton prey capture rate of the passive suspension feeder Leptogorgia sarmentosa (Cnidaria: Octocorallia), a case study. Marine Biology, 2004, 144, 89-99.	1.5	59
44	LONG-TERM ASSESSMENT OF TEMPERATE OCTOCORAL MORTALITY PATTERNS, PROTECTED VS. UNPROTECTED AREAS. , 2004, 14, 1466-1478.		114
45	Seasonal energetic constraints in Mediterranean benthic suspension feeders: effects at different levels of ecological organization. Oikos, 2003, 101, 205-215.	2.7	105
46	Natural feeding of the temperate asymbiotic octocoral-gorgonian Leptogorgia sarmentosa (Cnidaria:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	53
47	Particle removal by coral reef communities: picoplankton is a major source of nitrogen. Marine Ecology - Progress Series, 2003, 257, 13-23.	1.9	73
48	Seasonality of in situ respiration rate in three temperate benthic suspension feeders. Limnology and Oceanography, 2002, 47, 324-331.	3.1	65
49	Are Antarctic suspension-feeding communities different from those elsewhere in the world?. Polar Biology, 2001, 24, 473-485.	1.2	101
50	The ultimate opportunists: consumers of seston. Marine Ecology - Progress Series, 2001, 219, 305-308.	1.9	67
51	Seasonality in coastal benthic ecosystems. Trends in Ecology and Evolution, 2000, 15, 448-453.	8.7	253
52	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
53	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. Journal of Plankton Research, 1999, 21, 1077-1100.	1.8	74
54	Prey capture by a benthic coral reef hydrozoan. Coral Reefs, 1999, 18, 141-145.	2.2	29

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55	Natural diet and grazing rate of the temperate sponge Dysidea avara (Demospongiae, Dendroceratida) throughout an annual cycle. Marine Ecology - Progress Series, 1999, 176, 179-190.	1.9	199
56	Heterogeneous feeding in benthic suspension feeders:the natural diet and grazing rate of the temperate gorgonian Paramuricea clavata (Cnidaria:Octocorallia) over a year cycle. Marine Ecology - Progress Series, 1999, 183, 125-137.	1.9	95
57	Growth in a Modular Colonial Marine Invertebrate. Estuarine, Coastal and Shelf Science, 1998, 47, 459-470.	2.1	86
58	Benthic suspension feeders: their paramount role in littoral marine food webs. Trends in Ecology and Evolution, 1998, 13, 316-321.	8.7	544
59	Heterotrophic feeding by gorgonian corals with symbiotic zooxanthella. Limnology and Oceanography, 1998, 43, 1170-1179.	3.1	96
60	An energetic approach to the study of life-history traits of two modular colonial benthic invertebrates. Marine Ecology - Progress Series, 1998, 162, 89-103.	1.9	74
61	Temporal variability in abundance of the sea urchins Paracentrotus lividus and Arbacia lixula in the northwestern Mediterranean:comparison between a marine reserve and an unprotected area. Marine Ecology - Progress Series, 1998, 168, 135-145.	1.9	86
62	Seasonal variation of in situ feeding rates by the temperate ascidian Halocynthia papillosa. Marine Ecology - Progress Series, 1998, 175, 201-213.	1.9	54
63	Effects of Spatial Distribution and Reproductive Biology on in situ Fertilization Rates of a Broadcast-Spawning Invertebrate. Biological Bulletin, 1997, 193, 20-29.	1.8	54
64	Horizontal Transfer of Matter by a Cave-Dwelling Mysid. Marine Ecology, 1997, 18, 211-226.	1.1	23
65	Small-scale heterogeneity of fertilization success in a broadcast spawning octocoral. Journal of Experimental Marine Biology and Ecology, 1997, 214, 107-120.	1.5	50
66	In situ Rates of Fertilization Among Broadcast Spawning Gorgonian Corals. Biological Bulletin, 1996, 190, 45-55.	1.8	73
67	Quantification of sexual reproduction in the marine benthic hydroid Campanularia everta. Marine Biology, 1996, 125, 365-373.	1.5	6
68	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
69	Reproduction and cycle of gonadal development in the Mediterranean gorgonian Paramuricea clavata. Marine Ecology - Progress Series, 1995, 117, 173-183.	1.9	120
70	Sexual reproductive effort in the Mediterranean gorgonian Paramuricea ciavata. Marine Ecology - Progress Series, 1995, 117, 185-192.	1.9	68
71	Trophic ecology of a benthic marine hydroid, Campanularia everta. Marine Ecology - Progress Series, 1995, 119, 211-220.	1.9	36
72	Feeding and prey capture cycles in the aposymbiontic gorgonian Paramuhcea clavata. Marine Ecology - Progress Series, 1994, 115, 257-270.	1.9	94

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73	The population dynamics of Orthopyxis crenata (Hartlaub, 1901) (Hydroza, Cnidaria), an epiphyte of Halimeda tuna in the northwestern Mediterranean. Journal of Experimental Marine Biology and Ecology, 1991, 150, 283-292.	1.5	10