Albert Calbet

List of Publications by Year
in descending order

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113 papers	7,129 citations	66343 42 h-index	60623 81 g-index
116 all docs	116 docs citations	116 times ranked	4840 citing authors

#	Article	IF	Citations
1	Phytoplankton growth, microzooplankton grazing, and carbon cycling in marine systems. Limnology and Oceanography, 2004, 49, 51-57.	3.1	948
2	The ciliate-copepod link in marine ecosystems. Aquatic Microbial Ecology, 2005, 38, 157-167.	1.8	416
3	The role of mixotrophic protists in the biological carbon pump. Biogeosciences, 2014, 11, 995-1005.	3.3	314
4	Defining Planktonic Protist Functional Groups on Mechanisms for Energy and Nutrient Acquisition: Incorporation of Diverse Mixotrophic Strategies. Protist, 2016, 167, 106-120.	1.5	290
5	Mesozooplankton grazing effect on primary production: A global comparative analysis in marine ecosystems. Limnology and Oceanography, 2001, 46, 1824-1830.	3.1	268
6	The trophic roles of microzooplankton in marine systems. ICES Journal of Marine Science, 2008, 65, 325-331.	2.5	246
7	Annual Zooplankton Succession in Coastal NW Mediterranean Waters: The Importance of the Smaller Size Fractions. Journal of Plankton Research, 2001, 23, 319-331.	1.8	239
8	Microzooplankton grazing in the oceans: impacts, data variability, knowledge gaps and future directions. Journal of Plankton Research, 2013, 35, 691-706.	1.8	229
9	Mesozooplankton influences on the microbial food web: Direct and indirect trophic interactions in the oligotrophic open ocean. Limnology and Oceanography, 1999, 44, 1370-1380.	3.1	209
10	Microzooplankton production in the oceans. ICES Journal of Marine Science, 2004, 61, 501-507.	2.5	160
11	Bridging the gap between marine biogeochemical and fisheries sciences; configuring the zooplankton link. Progress in Oceanography, 2014, 129, 176-199.	3.2	146
12	Accumulation and Cycling of Polycyclic Aromatic Hydrocarbons in Zooplankton. Environmental Science & Technology, 2009, 43, 2295-2301.	10.0	134
13	Effect of heterotrophic versus autotrophic food on feeding and reproduction of the calanoid copepod Acartia tonsa: relationship with prey fatty acid composition. Aquatic Microbial Ecology, 2003, 31, 267-278.	1.8	131
14	Mixotrophic protists and a new paradigm for marine ecology: where does plankton research go now?. Journal of Plankton Research, 2019, 41, 375-391.	1.8	119
15	Effects of smallâ€scale turbulence on copepods: The case of Oithona davisae. Limnology and Oceanography, 2003, 48, 1304-1311.	3.1	112
16	Copepod feeding in the ocean: scaling patterns, composition of their diet and the bias of estimates due to microzooplankton grazing during incubations. Hydrobiologia, 2011, 666, 181-196.	2.0	106
17	PREDICTING SINGLE AND MIXTURE TOXICITY OF PETROGENIC POLYCYCLIC AROMATIC HYDROCARBONS TO THE COPEPOD OITHONA DAVISAE. Environmental Toxicology and Chemistry, 2005, 24, 2992.	4.3	103
18	Functional ecology of aquatic phagotrophic protists â€“ Concepts, limitations, and perspectives. European Journal of Protistology, 2016, 55, 50-74.	1.5	103

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19	Trophic impact and prey selection by crustacean zooplankton on the microbial communities of an oligotrophic coastal area (NW Mediterranean Sea). Aquatic Microbial Ecology, 2004, 35, 65-78.	1.8	100
20	Scaling of feeding in marine calanoid copepods. Limnology and Oceanography, 2007, 52, 668-675.	3.1	89
21	Estimating zooplankton biomass through image analysis. Marine Biology, 2003, 143, 307-315.	1.5	87
22	Planktonic food web structure and trophic transfer efficiency along a productivity gradient in the tropical and subtropical Atlantic Ocean. Scientific Reports, 2019, 9, 2044.	3.3	85
23	Seasonal dynamics of phytoplankton in the Antarctic Polar Front region at 170Â°W. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1843-1865.	1.4	80
24	The feeding ecology of the copepod Centropages typicus (KrÃ¶yer). Progress in Oceanography, 2007, 72, 137-150.	3.2	76
25	Contrasting effects of ocean acidification on the microbial food web under different trophic conditions. ICES Journal of Marine Science, 2016, 73, 670-679.	2.5	76
26	The role of arctic zooplankton in biogeochemical cycles: respiration and excretion of ammonia and phosphate during summer. Polar Biology, 2010, 33, 1719-1731.	1.2	70
27	RNA content of copepods as a tool for determining adult growth rates in the field. Limnology and Oceanography, 1998, 43, 465-470.	3.1	67
28	Lethal and sublethal effects of naphthalene and 1,2-dimethylnaphthalene on naupliar and adult stages of the marine cyclopoid copepod Oithona davisae. Environmental Pollution, 2009, 157, 1219-1226.	7.5	65
29	Impact of micro- and nanograzers on phytoplankton assessed by standard and size-fractionated dilution grazing experiments. Aquatic Microbial Ecology, 2008, 50, 145-156.	1.8	65
30	Oceanic protists with different forms of acquired phototrophy display contrasting biogeographies and abundance. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170664.	2.6	63
31	Feeding rates and gross growth efficiencies of larval developmental stages of Oithona davisae (Copepoda, Cyclopoida). Journal of Experimental Marine Biology and Ecology, 2010, 387, 24-35.	1.5	61
32	Intraspecific variability in Karlodinium veneficum: Growth rates, mixotrophy, and lipid composition. Harmful Algae, 2011, 10, 654-667.	4.8	61
33	Lethal and sublethal effects of naphthalene and 1,2-dimethylnaphthalene on the marine copepod Paracartia grani. Marine Biology, 2007, 151, 195-204.	1.5	58
34	Feeding activity and swimming patterns of Acartia grani and Oithona davisae nauplii in the presence of motile and non-motile prey. Marine Ecology - Progress Series, 2007, 331, 119-129.	1.9	57
35	Physical control of zooplankton communities in the Catalan Sea. Progress in Oceanography, 2007, 74, 294-312.	3.2	54
36	Effects of trophic cascades in dilution grazing experiments: from artificial saturated feeding responses to positive slopes. Journal of Plankton Research, 2013, 35, 1183-1191.	1.8	52

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37	A light-induced shortcut in the planktonic microbial loop. Scientific Reports, 2016, 6, 29286.	3.3	52
38	Copepod egg production in the western Mediterranean:response to food availability in oligotrophic environments. Marine Ecology - Progress Series, 1999, 187, 179-189.	1.9	52
39	Feeding rates and prey : predator size ratios of the nauplii and adult females of the marine cyclopoid copepod Oithona davisae. Limnology and Oceanography, 2014, 59, 2077-2088.	3.1	51
40	Future Climate Scenarios for a Coastal Productive Planktonic Food Web Resulting in Microplankton Phenology Changes and Decreased Trophic Transfer Efficiency. PLoS ONE, 2014, 9, e94388.	2.5	50
41	Microbial community composition and growth dynamics in the Antarctic Polar Front and seasonal ice zone during late spring 1997. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 4059-4080.	1.4	49
42	Trophic impact, metabolism, and biogeochemical role of the marine cladoceran Penilia avirostris and the co-dominant copepod Oithona nana in NW Mediterranean coastal waters. Marine Biology, 2006, 150, 221-235.	1.5	48
43	Low microzooplankton grazing rates in the Arctic Ocean during a Phaeocystis pouchetii bloom (Summer 2007): fact or artifact of the dilution technique?. Journal of Plankton Research, 2011, 33, 687-701.	1.8	44
44	Feeding ecology of the marine cladoceran Penilia avirostris: natural diet, prey selectivity and daily ration. Marine Ecology - Progress Series, 2006, 315, 211-220.	1.9	43
45	Planktonic herbivorous food webs in the catalan Sea (NW Mediterranean): temporal variability and comparison of indices of phyto-zooplankton coupling based on state variables and rate processes. Journal of Plankton Research, 1996, 18, 2329-2347.	1.8	42
46	Metabolic rates and carbon budget of early developmental stages of the marine cyclopoid copepod Oithona davisae. Limnology and Oceanography, 2011, 56, 403-414.	3.1	42
47	Feeding and production of zooplankton in the Catalan Sea (NW Mediterranean). Progress in Oceanography, 2007, 74, 313-328.	3.2	41
48	Stimulation of gross dimethylsulfide (DMS) production by solar radiation. Geophysical Research Letters, 2011, 38, .	4.0	38
49	Effects of light availability on mixotrophy and microzooplankton grazing in an oligotrophic plankton food web: Evidences from a mesocosm study in Eastern Mediterranean waters. Journal of Experimental Marine Biology and Ecology, 2012, 424-425, 66-77.	1.5	37
50	Adaptations to feast and famine in different strains of the marine heterotrophic dinoflagellates Gyrodinium dominans and Oxyrrhis marinaÂ. Marine Ecology - Progress Series, 2013, 483, 67-84.	1.9	37
51	Antarctic zooplankton metabolism: carbon requirements and ammonium excretion of salps and crustacean zooplankton in the vicinity of the Bransfield Strait during January 1994. Journal of Marine Systems, 1998, 17, 347-359.	2.1	35
52	Small-scale turbulence and zooplankton metabolism: Effects of turbulence on heartbeat rates of planktonic crustaceans. Limnology and Oceanography, 1994, 39, 1465-1470.	3.1	34
53	Food availability as a potential source of bias in the egg production method for copepods. Journal of Plankton Research, 1997, 19, 1-14.	1.8	34
54	Effects of temperature on the metabolic stoichiometry of Arctic zooplankton. Biogeosciences, 2013, 10, 689-697.	3.3	34

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55	Phytoplankton growth and microzooplankton grazing along a sub-Arctic fjord (GodthÃ¥bsfjord, west) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	34
56	Short communication. Food availability and diel feeding rhythms in the marine copepods Acartia grani and Centropages typicus. Journal of Plankton Research, 1999, 21, 1009-1015.	1.8	33
57	Life history and population dynamics of the marine cladoceran Penilia avirostris (Branchiopoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	33
58	Effects of temperature and food concentration on the survival, development and growth rates of naupliar stages of Oithona davisae (Copepoda, Cyclopoida). Marine Ecology - Progress Series, 2010, 410, 97-109.	1.9	32
59	Low grazing impact of mesozooplankton on the microbial communities of the Alboran Sea: a possible case of inhibitory effects by the toxic dinoflagellate Gymnodinium catenatum. Aquatic Microbial Ecology, 2002, 26, 235-246.	1.8	29
60	Copepod egg production in the NW Mediterranean: effects of winter environmental conditions. Marine Ecology - Progress Series, 2002, 237, 173-184.	1.9	29
61	Zooplankton grazing in the Atlantic Ocean: A latitudinal study. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 954-963.	1.4	27
62	Protein and nucleic acid metabolism as proxies for growth and fitness of Oithona davisae (Copepoda,) Tj ETQq0 0 0 rgBT /Overlock 10 T 406, 87-94.	1.5	26
63	Heterogeneous distribution of plankton within the mixed layer and its implications for bloom formation in tropical seas. Scientific Reports, 2015, 5, 11240.	3.3	26
64	Ageing and Caloric Restriction in a Marine Planktonic Copepod. Scientific Reports, 2015, 5, 14962.	3.3	25
65	Zooplankton biomass distribution patterns along the western Antarctic Peninsula (December 2002). Journal of Plankton Research, 2005, 27, 1195-1203.	1.8	24
66	Zooplankton distribution and feeding in the Arctic Ocean during a Phaeocystis pouchetii bloom. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 72, 17-33.	1.4	24
67	Effects of eutrophication on the planktonic food web dynamics of marine coastal ecosystems: The case study of two tropical inlets. Marine Environmental Research, 2016, 119, 176-188.	2.5	23
68	Effects of the toxic dinoflagellate Karlodinium sp. (cultured at different N/P) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	23
69	Egg and faecal pellet production rates of the marine copepod Metridia gerlachei northwest of the Antarctic Peninsula. Polar Biology, 1997, 18, 273-279.	1.2	20
70	Sulfur assimilation byOxyrrhis marinafeeding on a³⁵Sâ€ÐMSPâ€labelled prey. Environmental Microbiology, 2009, 11, 3063-3072.	3.8	20
71	Trophic role and carbon budget of metazoan microplankton in northwest Mediterranean coastal waters. Limnology and Oceanography, 2011, 56, 415-430.	3.1	19
72	Non-proportional bioaccumulation of trace metals and metalloids in the planktonic food web of two Singapore coastal marine inlets with contrasting water residence times. Science of the Total Environment, 2016, 560-561, 284-294.	8.0	19

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73	The quantitative role of microzooplankton grazing in dimethylsulfide (DMS) production in the NW Mediterranean. Biogeochemistry, 2018, 141, 125-142.	3.5	19
74	Concentrations of plutonium and americium in plankton from the western Mediterranean Sea. Science of the Total Environment, 2003, 311, 233-245.	8.0	18
75	Mediterranean marine copepods: basin-scale trends of the calanoid Centropages typicus. Hydrobiologia, 2009, 617, 41-53.	2.0	17
76	Maintenance, feeding and growth of Carybdea marsupialis (Cnidaria: Cubozoa) in the laboratory. Journal of Experimental Marine Biology and Ecology, 2013, 439, 84-91.	1.5	17
77	Effects of concentration and size of suspended particles on the ingestion, reproduction and mortality rates of the copepod, Acartia tonsa. Marine Environmental Research, 2018, 140, 251-264.	2.5	16
78	Centropages behaviour: Swimming and vertical migration. Progress in Oceanography, 2007, 72, 121-136.	3.2	15
79	Ecological success of the cladoceran Penilia avirostris in the marine environment: feeding performance, gross growth efficiencies and life history. Marine Biology, 2007, 151, 1385-1396.	1.5	15
80	Biodiversity and distribution patterns of planktonic cnidarians in <scp>S</scp>an <scp>M</scp>atÃas <scp>G</scp>ulf, <scp>P</scp>atagonia, <scp>A</scp>rgentina. Marine Ecology, 2013, 34, 71-82.	1.1	15
81	Revisiting the dilution technique to quantify the role of microzooplankton in DMS(P) cycling: laboratory and field tests. Journal of Plankton Research, 2010, 32, 1255-1267.	1.8	14
82	How much is enough for nutrients in microzooplankton dilution grazing experiments?. Journal of Plankton Research, 2018, 40, 109-117.	1.8	14
83	Variability of mesozooplankton biomass and individual size in a coast-offshore transect in the Catalan Sea: relationships with chlorophyll a and hydrographic features. Scientia Marina, 2016, 80, 79-87.	0.6	13
84	Towards an Understanding of Diel Feeding Rhythms in Marine Protists: Consequences of Light Manipulation. Microbial Ecology, 2020, 79, 64-72.	2.8	12
85	Effects of prey trophic mode on the gross-growth efficiency of marine copepods: the case of mixoplankton. Scientific Reports, 2020, 10, 12259.	3.3	12
86	Mixotrophy upgrades food quality for marine calanoid copepods. Limnology and Oceanography, 2021, 66, 4125-4139.	3.1	12
87	Trophic ecology of Calanoides acutus in Gerlache Strait and Bellingshausen Sea waters (Antarctica,) Tj ETQq1 1 0.784314 rgBT /Overl	1.2	11
88	Feeding and growth kinetics of the planktotrophic larvae of the spionid polychaete Polydora ciliata (Johnston). Journal of Experimental Marine Biology and Ecology, 2009, 382, 61-68.	1.5	11
89	Use of live, fluorescently-labeled algae for measuring microzooplankton grazing in natural communities. Journal of Experimental Marine Biology and Ecology, 2014, 457, 59-70.	1.5	11
90	Diel feeding rhythms in marine microzooplankton: effects of prey concentration, prey condition, and grazer nutritional history. Marine Biology, 2017, 164, 1.	1.5	11

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91	Environmental boundaries of marine cladoceran distributions in the NW Mediterranean: Implications for their expansion under global warming. Journal of Marine Systems, 2016, 164, 30-41.	2.1	10
92	Effects of multigenerational rearing, ontogeny and predation threat on copepod feeding rhythms. Aquatic Ecology, 2020, 54, 697-709.	1.5	10
93	Reduction in thermal stress of marine copepods after physiological acclimation. Journal of Plankton Research, 2022, 44, 427-442.	1.8	8
94	Effects of small-scale turbulence on growth and grazing of marine microzooplankton. Aquatic Sciences, 2018, 80, 1.	1.5	7
95	Ontogenetic changes in the elemental composition and stoichiometry of marine copepods with different life history strategies. Journal of Plankton Research, 2020, 42, 320-333.	1.8	7
96	Ontogenetic changes in the feeding functional response of the marine copepod Paracartia grani. Marine Ecology - Progress Series, 2019, 616, 25-35.	1.9	7
97	Mixoplankton interferences in dilution grazing experiments. Scientific Reports, 2021, 11, 23849.	3.3	7
98	Mesozooplankton grazing and primary production: Reply to the comment by Laws. Limnology and Oceanography, 2003, 48, 1359-1362.	3.1	6
99	Predator Chemical Cue Effects on the Diel Feeding Behaviour of Marine Protists. Microbial Ecology, 2021, 82, 356-364.	2.8	6
100	Sex-Dependent Effects of Caloric Restriction on the Ageing of an Ambush Feeding Copepod. Scientific Reports, 2017, 7, 12662.	3.3	5
101	Trophic interactions and diel feeding rhythms of microzooplankton in a productive Swedish Fjord. ICES Journal of Marine Science, 2020, 77, 2718-2728.	2.5	5
102	Thermal Acclimation and Adaptation in Marine Protozooplankton and Mixoplankton. Frontiers in Microbiology, 2022, 13, 832810.	3.5	5
103	Light-induced changes on the feeding behaviour of the calanoid copepod Clausocalanus furcatus (Brady, 1883): evidence from a mesocosm study. Journal of Plankton Research, 2014, 36, 1233-1246.	1.8	4
104	Caveats on the use of rotenone to estimate mixotrophic grazing in the oceans. Scientific Reports, 2020, 10, 3899.	3.3	4
105	Effects of Temperature on the Bioenergetics of the Marine Protozoans Gyrodinium dominans and Oxyrrhis marina. Frontiers in Marine Science, 2022, 9, .	2.5	4
106	The effect of short-term temperature exposure on vital physiological processes of mixoplankton and protozooplankton. Marine Environmental Research, 2022, 179, 105693.	2.5	4
107	Modelling the effect of constant and fluctuating food supply on egg production rates of Acartia grani. Ecological Modelling, 2010, 221, 495-502.	2.5	3
108	Non-lethal effects of the predator Meganyctiphanes norvegica and influence of seasonal photoperiod and food availability on the diel feeding behaviour of the copepod Centropages typicus. Journal of Plankton Research, 2020, 42, 742-751.	1.8	2

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109	Role of zooplankton in marine biogeochemical cycles: from fine scale to global theories. Journal of Plankton Research, 2016, 38, 690-691.	1.8	1
110	The strengths and weaknesses of Live Fluorescently Labelled Algae (LFLA) to estimate herbivory in protozooplankton and mixoplankton. Marine Environmental Research, 2022, 174, 105558.	2.5	1
111	The neritic marine copepod Centropages typicus does not suffer physiological costs from diel temperature fluctuations associated with its vertical migration. Aquatic Sciences, 2022, 84, 1.	1.5	1
112	Sazhina, L.I. - 2006. Breeding, growth rates, and production of marine copepods. Universities Press, Hyderabad, India.. Scientia Marina, 2006, 70, 559-560.	0.6	0
113	Miquel Alcaraz (1945â€“2022). Journal of Plankton Research, 0, , .	1.8	0