

Albert Calbet

List of Publications by Year in descending order

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113
papers

7,129
citations

66315

42
h-index

60583

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. <i>Limnology and Oceanography</i> , 2004, 49, 51-57.	1.6	948
2	The ciliate-copepod link in marine ecosystems. <i>Aquatic Microbial Ecology</i> , 2005, 38, 157-167.	0.9	416
3	The role of mixotrophic protists in the biological carbon pump. <i>Biogeosciences</i> , 2014, 11, 995-1005.	1.3	314
4	Defining Planktonic Protist Functional Groups on Mechanisms for Energy and Nutrient Acquisition: Incorporation of Diverse Mixotrophic Strategies. <i>Protist</i> , 2016, 167, 106-120.	0.6	290
5	Mesozooplankton grazing effect on primary production: A global comparative analysis in marine ecosystems. <i>Limnology and Oceanography</i> , 2001, 46, 1824-1830.	1.6	268
6	The trophic roles of microzooplankton in marine systems. <i>ICES Journal of Marine Science</i> , 2008, 65, 325-331.	1.2	246
7	Annual Zooplankton Succession in Coastal NW Mediterranean Waters: The Importance of the Smaller Size Fractions. <i>Journal of Plankton Research</i> , 2001, 23, 319-331.	0.8	239
8	Microzooplankton grazing in the oceans: impacts, data variability, knowledge gaps and future directions. <i>Journal of Plankton Research</i> , 2013, 35, 691-706.	0.8	229
9	Mesozooplankton influences on the microbial food web: Direct and indirect trophic interactions in the oligotrophic open ocean. <i>Limnology and Oceanography</i> , 1999, 44, 1370-1380.	1.6	209
10	Microzooplankton production in the oceans. <i>ICES Journal of Marine Science</i> , 2004, 61, 501-507.	1.2	160
11	Bridging the gap between marine biogeochemical and fisheries sciences; configuring the zooplankton link. <i>Progress in Oceanography</i> , 2014, 129, 176-199.	1.5	146
12	Accumulation and Cycling of Polycyclic Aromatic Hydrocarbons in Zooplankton. <i>Environmental Science & Technology</i> , 2009, 43, 2295-2301.	4.6	134
13	Effect of heterotrophic versus autotrophic food on feeding and reproduction of the calanoid copepod <i>Acartia tonsa</i> : relationship with prey fatty acid composition. <i>Aquatic Microbial Ecology</i> , 2003, 31, 267-278.	0.9	131
14	Mixotrophic protists and a new paradigm for marine ecology: where does plankton research go now?. <i>Journal of Plankton Research</i> , 2019, 41, 375-391.	0.8	119
15	Effects of small-scale turbulence on copepods: The case of <i>Oithona davisae</i> . <i>Limnology and Oceanography</i> , 2003, 48, 1304-1311.	1.6	112
16	Copepod feeding in the ocean: scaling patterns, composition of their diet and the bias of estimates due to microzooplankton grazing during incubations. <i>Hydrobiologia</i> , 2011, 666, 181-196.	1.0	106
17	PREDICTING SINGLE AND MIXTURE TOXICITY OF PETROGENIC POLYCYCLIC AROMATIC HYDROCARBONS TO THE COPEPOD <i>OITHONA DAVISAE</i> . <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2992.	2.2	103
18	Functional ecology of aquatic phagotrophic protists – Concepts, limitations, and perspectives. <i>European Journal of Protistology</i> , 2016, 55, 50-74.	0.5	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). <i>Aquatic Microbial Ecology</i> , 2004, 35, 65-78.	0.9	100
20	Scaling of feeding in marine calanoid copepods. <i>Limnology and Oceanography</i> , 2007, 52, 668-675.	1.6	89
21	Estimating zooplankton biomass through image analysis. <i>Marine Biology</i> , 2003, 143, 307-315.	0.7	87
22	Planktonic food web structure and trophic transfer efficiency along a productivity gradient in the tropical and subtropical Atlantic Ocean. <i>Scientific Reports</i> , 2019, 9, 2044.	1.6	85
23	Seasonal dynamics of phytoplankton in the Antarctic Polar Front region at 170°W. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 1843-1865.	0.6	80
24	The feeding ecology of the copepod <i>Centropages typicus</i> (Krøyer). <i>Progress in Oceanography</i> , 2007, 72, 137-150.	1.5	76
25	Contrasting effects of ocean acidification on the microbial food web under different trophic conditions. <i>ICES Journal of Marine Science</i> , 2016, 73, 670-679.	1.2	76
26	The role of arctic zooplankton in biogeochemical cycles: respiration and excretion of ammonia and phosphate during summer. <i>Polar Biology</i> , 2010, 33, 1719-1731.	0.5	70
27	RNA content of copepods as a tool for determining adult growth rates in the field. <i>Limnology and Oceanography</i> , 1998, 43, 465-470.	1.6	67
28	Lethal and sublethal effects of naphthalene and 1,2-dimethylnaphthalene on naupliar and adult stages of the marine cyclopoid copepod <i>Oithona davisae</i> . <i>Environmental Pollution</i> , 2009, 157, 1219-1226.	3.7	65
29	Impact of micro- and nanograzers on phytoplankton assessed by standard and size-fractionated dilution grazing experiments. <i>Aquatic Microbial Ecology</i> , 2008, 50, 145-156.	0.9	65
30	Oceanic protists with different forms of acquired phototrophy display contrasting biogeographies and abundance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170664.	1.2	63
31	Feeding rates and gross growth efficiencies of larval developmental stages of <i>Oithona davisae</i> (Copepoda, Cyclopoida). <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 387, 24-35.	0.7	61
32	Intraspecific variability in <i>Karlodinium veneficum</i> : Growth rates, mixotrophy, and lipid composition. <i>Harmful Algae</i> , 2011, 10, 654-667.	2.2	61
33	Lethal and sublethal effects of naphthalene and 1,2-dimethylnaphthalene on the marine copepod <i>Paracartia grani</i> . <i>Marine Biology</i> , 2007, 151, 195-204.	0.7	58
34	Feeding activity and swimming patterns of <i>Acartia grani</i> and <i>Oithona davisae</i> nauplii in the presence of motile and non-motile prey. <i>Marine Ecology - Progress Series</i> , 2007, 331, 119-129.	0.9	57
35	Physical control of zooplankton communities in the Catalan Sea. <i>Progress in Oceanography</i> , 2007, 74, 294-312.	1.5	54
36	Effects of trophic cascades in dilution grazing experiments: from artificial saturated feeding responses to positive slopes. <i>Journal of Plankton Research</i> , 2013, 35, 1183-1191.	0.8	52

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37	A light-induced shortcut in the planktonic microbial loop. <i>Scientific Reports</i> , 2016, 6, 29286.	1.6	52
38	Copepod egg production in the western Mediterranean: response to food availability in oligotrophic environments. <i>Marine Ecology - Progress Series</i> , 1999, 187, 179-189.	0.9	52
39	Feeding rates and prey : predator size ratios of the nauplii and adult females of the marine cyclopoid copepod <i>Oithona davisae</i> . <i>Limnology and Oceanography</i> , 2014, 59, 2077-2088.	1.6	51
40	Future Climate Scenarios for a Coastal Productive Planktonic Food Web Resulting in Microplankton Phenology Changes and Decreased Trophic Transfer Efficiency. <i>PLoS ONE</i> , 2014, 9, e94388.	1.1	50
41	Microbial community composition and growth dynamics in the Antarctic Polar Front and seasonal ice zone during late spring 1997. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 4059-4080.	0.6	49
42	Trophic impact, metabolism, and biogeochemical role of the marine cladoceran <i>Penilia avirostris</i> and the co-dominant copepod <i>Oithona nana</i> in NW Mediterranean coastal waters. <i>Marine Biology</i> , 2006, 150, 221-235.	0.7	48
43	Low microzooplankton grazing rates in the Arctic Ocean during a <i>Phaeocystis pouchetii</i> bloom (Summer 2007): fact or artifact of the dilution technique?. <i>Journal of Plankton Research</i> , 2011, 33, 687-701.	0.8	44
44	Feeding ecology of the marine cladoceran <i>Penilia avirostris</i> : natural diet, prey selectivity and daily ration. <i>Marine Ecology - Progress Series</i> , 2006, 315, 211-220.	0.9	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. <i>Journal of Plankton Research</i> , 1996, 18, 2329-2347.	0.8	42
46	Metabolic rates and carbon budget of early developmental stages of the marine cyclopoid copepod <i>Oithona davisae</i> . <i>Limnology and Oceanography</i> , 2011, 56, 403-414.	1.6	42
47	Feeding and production of zooplankton in the Catalan Sea (NW Mediterranean). <i>Progress in Oceanography</i> , 2007, 74, 313-328.	1.5	41
48	Stimulation of gross dimethylsulfide (DMS) production by solar radiation. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	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. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 424-425, 66-77.	0.7	37
50	Adaptations to feast and famine in different strains of the marine heterotrophic dinoflagellates <i>Gyrodinium dominans</i> and <i>Oxyrrhis marina</i> . <i>Marine Ecology - Progress Series</i> , 2013, 483, 67-84.	0.9	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. <i>Journal of Marine Systems</i> , 1998, 17, 347-359.	0.9	35
52	Small-scale turbulence and zooplankton metabolism: Effects of turbulence on heartbeat rates of planktonic crustaceans. <i>Limnology and Oceanography</i> , 1994, 39, 1465-1470.	1.6	34
53	Food availability as a potential source of bias in the egg production method for copepods. <i>Journal of Plankton Research</i> , 1997, 19, 1-14.	0.8	34
54	Effects of temperature on the metabolic stoichiometry of Arctic zooplankton. <i>Biogeosciences</i> , 2013, 10, 689-697.	1.3	34

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55	Phytoplankton growth and microzooplankton grazing along a sub-Arctic fjord (Godthåbsfjord, west) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.9	34
56	Short communication. Food availability and diel feeding rhythms in the marine copepods <i>Acartia grani</i> and <i>Centropages typicus</i> . <i>Journal of Plankton Research</i> , 1999, 21, 1009-1015.	0.8	33
57	Life history and population dynamics of the marine cladoceran <i>Penilia avirostris</i> (Branchiopoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.8	33
58	Effects of temperature and food concentration on the survival, development and growth rates of naupliar stages of <i>Oithona davisae</i> (Copepoda, Cyclopoida). <i>Marine Ecology - Progress Series</i> , 2010, 410, 97-109.	0.9	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 <i>Gymnodinium catenatum</i> . <i>Aquatic Microbial Ecology</i> , 2002, 26, 235-246.	0.9	29
60	Copepod egg production in the NW Mediterranean: effects of winter environmental conditions. <i>Marine Ecology - Progress Series</i> , 2002, 237, 173-184.	0.9	29
61	Zooplankton grazing in the Atlantic Ocean: A latitudinal study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 954-963.	0.6	27
62	Protein and nucleic acid metabolism as proxies for growth and fitness of <i>Oithona davisae</i> (Copepoda,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	26
63	Heterogeneous distribution of plankton within the mixed layer and its implications for bloom formation in tropical seas. <i>Scientific Reports</i> , 2015, 5, 11240.	1.6	26
64	Ageing and Caloric Restriction in a Marine Planktonic Copepod. <i>Scientific Reports</i> , 2015, 5, 14962.	1.6	25
65	Zooplankton biomass distribution patterns along the western Antarctic Peninsula (December 2002). <i>Journal of Plankton Research</i> , 2005, 27, 1195-1203.	0.8	24
66	Zooplankton distribution and feeding in the Arctic Ocean during a <i>Phaeocystis pouchetii</i> bloom. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 72, 17-33.	0.6	24
67	Effects of eutrophication on the planktonic food web dynamics of marine coastal ecosystems: The case study of two tropical inlets. <i>Marine Environmental Research</i> , 2016, 119, 176-188.	1.1	23
68	Effects of the toxic dinoflagellate <i>Karlodinium</i> sp. (cultured at different N/P) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.3	23
69	Egg and faecal pellet production rates of the marine copepod <i>Metridia gerlachei</i> northwest of the Antarctic Peninsula. <i>Polar Biology</i> , 1997, 18, 273-279.	0.5	20
70	Sulfur assimilation by <i>Oxyrrhis marina</i> feeding on a ³⁵ S-labelled prey. <i>Environmental Microbiology</i> , 2009, 11, 3063-3072.	1.8	20
71	Trophic role and carbon budget of metazoan microplankton in northwest Mediterranean coastal waters. <i>Limnology and Oceanography</i> , 2011, 56, 415-430.	1.6	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. <i>Science of the Total Environment</i> , 2016, 560-561, 284-294.	3.9	19

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73	The quantitative role of microzooplankton grazing in dimethylsulfide (DMS) production in the NW Mediterranean. <i>Biogeochemistry</i> , 2018, 141, 125-142.	1.7	19
74	Concentrations of plutonium and americium in plankton from the western Mediterranean Sea. <i>Science of the Total Environment</i> , 2003, 311, 233-245.	3.9	18
75	Mediterranean marine copepods: basin-scale trends of the calanoid <i>Centropages typicus</i> . <i>Hydrobiologia</i> , 2009, 617, 41-53.	1.0	17
76	Maintenance, feeding and growth of <i>Carybdea marsupialis</i> (Cnidaria: Cubozoa) in the laboratory. <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 439, 84-91.	0.7	17
77	Effects of concentration and size of suspended particles on the ingestion, reproduction and mortality rates of the copepod, <i>Acartia tonsa</i> . <i>Marine Environmental Research</i> , 2018, 140, 251-264.	1.1	16
78	<i>Centropages</i> behaviour: Swimming and vertical migration. <i>Progress in Oceanography</i> , 2007, 72, 121-136.	1.5	15
79	Ecological success of the cladoceran <i>Penilia avirostris</i> in the marine environment: feeding performance, gross growth efficiencies and life history. <i>Marine Biology</i> , 2007, 151, 1385-1396.	0.7	15
80	Biodiversity and distribution patterns of planktonic cnidarians in <i>S</i> an <i>M</i> at <i>A</i> as <i>G</i> ulf, <i>P</i> atagonia, <i>A</i> rgentina. <i>Marine Ecology</i> , 2013, 34, 71-82.	0.4	15
81	Revisiting the dilution technique to quantify the role of microzooplankton in DMS(P) cycling: laboratory and field tests. <i>Journal of Plankton Research</i> , 2010, 32, 1255-1267.	0.8	14
82	How much is enough for nutrients in microzooplankton dilution grazing experiments?. <i>Journal of Plankton Research</i> , 2018, 40, 109-117.	0.8	14
83	Variability of mesozooplankton biomass and individual size in <i>a</i> coast-offshore transect in the Catalan Sea: relationships with chlorophyll <i>a</i> and hydrographic features. <i>Scientia Marina</i> , 2016, 80, 79-87.	0.3	13
84	Towards an Understanding of Diel Feeding Rhythms in Marine Protists: Consequences of Light Manipulation. <i>Microbial Ecology</i> , 2020, 79, 64-72.	1.4	12
85	Effects of prey trophic mode on the gross-growth efficiency of marine copepods: the case of mixoplankton. <i>Scientific Reports</i> , 2020, 10, 12259.	1.6	12
86	Mixotrophy upgrades food quality for marine calanoid copepods. <i>Limnology and Oceanography</i> , 2021, 66, 4125-4139.	1.6	12
87	Trophic ecology of <i>Calanoides acutus</i> in Gerlache Strait and Bellingshausen Sea waters (Antarctica,) $TJ_{ETQq1} = 1.0784314 \text{ rg}_{11} / \text{Overl}$	0.5	11
88	Feeding and growth kinetics of the planktotrophic larvae of the spionid polychaete <i>Polydora ciliata</i> (Johnston). <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 382, 61-68.	0.7	11
89	Use of live, fluorescently-labeled algae for measuring microzooplankton grazing in natural communities. <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 457, 59-70.	0.7	11
90	Diel feeding rhythms in marine microzooplankton: effects of prey concentration, prey condition, and grazer nutritional history. <i>Marine Biology</i> , 2017, 164, 1.	0.7	11

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91	Environmental boundaries of marine cladoceran distributions in the NW Mediterranean: Implications for their expansion under global warming. <i>Journal of Marine Systems</i> , 2016, 164, 30-41.	0.9	10
92	Effects of multigenerational rearing, ontogeny and predation threat on copepod feeding rhythms. <i>Aquatic Ecology</i> , 2020, 54, 697-709.	0.7	10
93	Reduction in thermal stress of marine copepods after physiological acclimation. <i>Journal of Plankton Research</i> , 2022, 44, 427-442.	0.8	8
94	Effects of small-scale turbulence on growth and grazing of marine microzooplankton. <i>Aquatic Sciences</i> , 2018, 80, 1.	0.6	7
95	Ontogenetic changes in the elemental composition and stoichiometry of marine copepods with different life history strategies. <i>Journal of Plankton Research</i> , 2020, 42, 320-333.	0.8	7
96	Ontogenetic changes in the feeding functional response of the marine copepod <i>Paracartia grani</i> . <i>Marine Ecology - Progress Series</i> , 2019, 616, 25-35.	0.9	7
97	Mixoplankton interferences in dilution grazing experiments. <i>Scientific Reports</i> , 2021, 11, 23849.	1.6	7
98	Mesozooplankton grazing and primary production: Reply to the comment by Laws. <i>Limnology and Oceanography</i> , 2003, 48, 1359-1362.	1.6	6
99	Predator Chemical Cue Effects on the Diel Feeding Behaviour of Marine Protists. <i>Microbial Ecology</i> , 2021, 82, 356-364.	1.4	6
100	Sex-Dependent Effects of Caloric Restriction on the Ageing of an Ambush Feeding Copepod. <i>Scientific Reports</i> , 2017, 7, 12662.	1.6	5
101	Trophic interactions and diel feeding rhythms of microzooplankton in a productive Swedish Fjord. <i>ICES Journal of Marine Science</i> , 2020, 77, 2718-2728.	1.2	5
102	Thermal Acclimation and Adaptation in Marine Protozooplankton and Mixoplankton. <i>Frontiers in Microbiology</i> , 2022, 13, 832810.	1.5	5
103	Light-induced changes on the feeding behaviour of the calanoid copepod <i>Clausocalanus furcatus</i> (Brady, 1883): evidence from a mesocosm study. <i>Journal of Plankton Research</i> , 2014, 36, 1233-1246.	0.8	4
104	Caveats on the use of rotenone to estimate mixotrophic grazing in the oceans. <i>Scientific Reports</i> , 2020, 10, 3899.	1.6	4
105	Effects of Temperature on the Bioenergetics of the Marine Protozoans <i>Gyrodinium dominans</i> and <i>Oxyrrhis marina</i> . <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	4
106	The effect of short-term temperature exposure on vital physiological processes of mixoplankton and protozooplankton. <i>Marine Environmental Research</i> , 2022, 179, 105693.	1.1	4
107	Modelling the effect of constant and fluctuating food supply on egg production rates of <i>Acartia grani</i> . <i>Ecological Modelling</i> , 2010, 221, 495-502.	1.2	3
108	Non-lethal effects of the predator <i>Meganycitiphanes norvegica</i> and influence of seasonal photoperiod and food availability on the diel feeding behaviour of the copepod <i>Centropages typicus</i> . <i>Journal of Plankton Research</i> , 2020, 42, 742-751.	0.8	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.	0.8	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.	1.1	1
111	The neritic marine copepod <i>Centropages typicus</i> does not suffer physiological costs from diel temperature fluctuations associated with its vertical migration. Aquatic Sciences, 2022, 84, 1.	0.6	1
112	Sazhina, L.I. - 2006. Breeding, growth rates, and production of marine copepods. Universities Press, Hyderabad, India.. Scientia Marina, 2006, 70, 559-560.	0.3	0
113	Miquel Alcaraz (1945â€“2022). Journal of Plankton Research, 0, , .	0.8	0