Hans G Dam

List of Publications by Year
in descending order

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92 papers	6,035 citations	76294 40 h-index	74108 75 g-index
99 all docs	99 docs citations	99 times ranked	4536 citing authors

#	Article	IF	Citations
1	RAPID: Research on Automated Plankton Identification. Oceanography, 2007, 20, 172-187.	0.5	409
2	Iron and grazing constraints on primary production in the central equatorial Pacific: An EqPac synthesis. Limnology and Oceanography, 1997, 42, 405-418.	1.6	368
3	The effect of temperature on the gut clearance rate constant of planktonic copepods. Journal of Experimental Marine Biology and Ecology, 1988, 123, 1-14.	0.7	266
4	The role of surface-active carbohydrates in the flocculation of a diatom bloom in a mesocosm. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 47-73.	0.6	248
5	Coagulation efficiency and aggregate formation in marine phytoplankton. Marine Biology, 1990, 107, 235-245.	0.7	242
6	The contribution of microorganisms to particulate carbon and nitrogen in surface waters of the Sargasso Sea near Bermuda. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 943-972.	0.6	240
7	Copepod hatching success in marine ecosystems with high diatom concentrations. Nature, 2002, 419, 387-389.	13.7	233
8	Stocks and dynamics of bacterioplankton carbon during the spring bloom in the eastern North Atlantic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 1993, 40, 245-263.	0.6	171
9	Evolutionary Adaptation of Marine Zooplankton to Global Change. Annual Review of Marine Science, 2013, 5, 349-370.	5.1	157
10	Particle size spectra between 1 Î¼m and 1 cm at Monterey Bay determined using multiple instruments. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 1739-1767.	0.6	149
11	Coupling of ingestion and defecation as a function of diet in the calanoid copepod Acartia tonsa. Marine Ecology - Progress Series, 2002, 229, 151-164.	0.9	145
12	The nearshore zone during coastal upwelling: Daily variability and coupling between primary and secondary production off central Chile. Progress in Oceanography, 1988, 20, 1-40.	1.5	134
13	Mesozooplankton grazing and metabolism at the equator in the central Pacific: Implications for carbon and nitrogen fluxes. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 735-756.	0.6	131
14	The trophic role of mesozooplankton at 47Â°N, 20Â°W during the North Atlantic Bloom Experiment. Deep-Sea Research Part II: Topical Studies in Oceanography, 1993, 40, 197-212.	0.6	127
15	Downward export of respiratory carbon and dissolved inorganic nitrogen by diel-migrant mesozooplankton at the JGOFS Bermuda time-series station. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1187-1197.	0.6	126
16	Downward export of carbon by diel migrant mesozooplankton in the central equatorial Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 2191-2202.	0.6	117
17	Coagulation efficiency, organic-matter glues and the dynamics of particles during a phytoplankton bloom in a mesocosm study. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 111-123.	0.6	108
18	Latitudinal differentiation in the effects of the toxic dinoflagellate Alexandrium spp. on the feeding and reproduction of populations of the copepod Acartia hudsonica. Harmful Algae, 2002, 1, 113-125.	2.2	101

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19	Sedimentation of phytoplankton during a diatom bloom: Rates and mechanisms. Journal of Marine Research, 1996, 54, 1123-1148.	0.3	91
20	Role of diatoms in copepod production:good, harmless or toxic?. Marine Ecology - Progress Series, 1998, 172, 305-308.	0.9	91
21	Effects of diet on dimensions, density and sinking rates of fecal pellets of the copepod Acartia tonsa. Marine Ecology - Progress Series, 1998, 175, 87-96.	0.9	89
22	Zooplankton variability on the equator at 140Â°W during the JGOFS EqPac study. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 673-693.	0.6	86
23	Effects of the toxic dinoflagellate Alexandrium fundyense on the copepod Acartia hudsonica: a test of the mechanisms that reduce ingestion rates. Marine Ecology - Progress Series, 2003, 248, 55-65.	0.9	84
24	Latitudinal variations in mesozooplankton grazing and metabolism in the central tropical Pacific during the U.S. JGOFS EqPac study. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 695-714.	0.6	76
25	Testing for resistance of pelagic marine copepods to a toxic dinoflagellate. Evolutionary Ecology, 2005, 18, 355-377.	0.5	76
26	Omnivory in the calanoid copepod Temora longicornis: feeding, egg production and egg hatching rates. Journal of Experimental Marine Biology and Ecology, 2003, 292, 119-137.	0.7	71
27	Testing for toxic effects of prey on zooplankton using sole versus mixed diets. Limnology and Oceanography, 2002, 47, 1430-1437.	1.6	68
28	Impact of Climate Change on Estuarine Zooplankton: Surface Water Warming in Long Island Sound Is Associated with Changes in Copepod Size and Community Structure. Estuaries and Coasts, 2015, 38, 13-23.	1.0	68
29	Zooplankton biomass and grazing at the JGOFS Sargasso Sea time series station. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 883-901.	0.6	65
30	Seasonal contrasts in the diel vertical distribution, feeding behavior, and grazing impact of the copepod <I>Temora longicornis</I> in Long Island Sound. Journal of Marine Research, 1993, 51, 561-594.	0.3	61
31	Latitudinal gradients in zooplankton biomass in the tropical Pacific at 140Â°W during the JGOFS EqPac study: Effects of El NiÃ±o. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 715-733.	0.6	57
32	Fate of organic carbon released from decomposing copepod fecal pellets in relation to bacterial production and ectoenzymatic activity. Aquatic Microbial Ecology, 2003, 33, 279-288.	0.9	57
33	Size as the master trait in modeled copepod fecal pellet carbon flux. Limnology and Oceanography, 2015, 60, 2090-2107.	1.6	56
34	Dimethylsulfoniopropionate (DMSP) in marine copepods and its relation with diets and salinity. Marine Ecology - Progress Series, 1999, 179, 71-79.	0.9	55
35	Influence of two different green algal diets on specific dynamic action and incorporation of carbon into biochemical fractions in the copepod Acartia tonsa. Journal of Plankton Research, 2002, 24, 293-300.	0.8	52
36	Limitation of zooplankton Production: Beyond Stoichiometry. Oikos, 1999, 84, 537.	1.2	51

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37	Comparison of the functional and numerical responses of resistant versus non-resistant populations of the copepod Acartia hudsonica fed the toxic dinoflagellate Alexandrium tamarense. Harmful Algae, 2007, 6, 875-882.	2.2	51
38	Integrating patterns of thermal tolerance and phenotypic plasticity with population genetics to improve understanding of vulnerability to warming in a widespread copepod. Global Change Biology, 2019, 25, 4147-4164.	4.2	49
39	The relative importance of egg production rate, hatching success, hatching duration and egg sinking in population recruitment of two species of marine copepods. Journal of Plankton Research, 1998, 20, 1971-1987.	0.8	47
40	Combining particle size spectra from a mesocosm experiment measured using photographic and aperture impedance (Coulter and Elzone) techniques. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 139-157.	0.6	46
41	Effects of omnivory and predatorâ€prey elemental stoichiometry on planktonic trophic interactions. Limnology and Oceanography, 2010, 55, 2107-2116.	1.6	42
42	Prorocentrum minimum(clone Exuv) is nutritionally insufficient, but not toxic to the copepod Acartia tonsa. Harmful Algae, 2005, 4, 575-584.	2.2	41
43	Seasonal feeding and fecundity of the calanoid copepod Acartia tonsa in Long Island Sound: is omnivory important to egg production?. Hydrobiologia, 1994, 292-293, 191-199.	1.0	40
44	Intermittent ventilation in the hypoxic zone of western Long Island Sound during the summer of 2004. Journal of Geophysical Research, 2008, 113, .	3.3	38
45	Pigment ingestion and egg production rates of the calanoid copepod Temora longicornisr. implications for gut pigment loss and omnivorous feeding. Journal of Plankton Research, 1996, 18, 855-861.	0.8	37
46	Phytoplankton inhibition of copepod egg hatching: test of an exudate hypothesis. Marine Ecology - Progress Series, 2001, 209, 197-202.	0.9	37
47	Bubbles: An estimate of their role in the global oceanic flux of carbon. Journal of Geophysical Research, 2001, 106, 9377-9383.	3.3	35
48	Latitudinal comparisons of equatorial Pacific zooplankton. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2695-2711.	0.6	35
49	Microzooplankton grazing of phytoplankton in a tropical upwelling region. Hydrobiologia, 2007, 575, 69-81.	1.0	35
50	Reactive oxygen species are linked to the toxicity of the dinoflagellate Alexandrium spp. to protists. Aquatic Microbial Ecology, 2012, 66, 199-209.	0.9	35
51	Sex-specific tolerance to starvation in the copepod Acartia tonsa. Journal of Experimental Marine Biology and Ecology, 2013, 446, 17-21.	0.7	35
52	Short-term feeding of Temora longicornis MÃ¼ller in the laboratory and the field. Journal of Experimental Marine Biology and Ecology, 1986, 99, 149-161.	0.7	32
53	An improved flocculator design for use in particle aggregation experiments. Limnology and Oceanography, 1994, 39, 723-729.	1.6	30
54	DMSP-consuming bacteria associated with the calanoid copepod Acartia tonsa (Dana). Journal of Experimental Marine Biology and Ecology, 2001, 256, 185-198.	0.7	30

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55	Newly discovered reproductive phenotypes of a marine copepod reveal the costs and advantages of resistance to a toxic dinoflagellate. Limnology and Oceanography, 2007, 52, 2099-2108.	1.6	30
56	Sexâ€related differential mortality of a marine copepod exposed to a toxic dinoflagellate. Limnology and Oceanography, 2008, 53, 2627-2635.	1.6	30
57	Rapid, but limited, zooplankton adaptation to simultaneous warming and acidification. Nature Climate Change, 2021, 11, 780-786.	8.1	30
58	Loss of transcriptional plasticity but sustained adaptive capacity after adaptation to global change conditions in a marine copepod. Nature Communications, 2022, 13, 1147.	5.8	27
59	An improved method for achieving high-quality RNA for copepod transcriptomic studies. Journal of Experimental Marine Biology and Ecology, 2013, 446, 57-66.	0.7	26
60	New measurements of phytoplankton aggregation in a flocculator using videography and image analysis. Marine Ecology - Progress Series, 1997, 155, 77-88.	0.9	25
61	he influence of copepod â€œswimmersâ€•on pigment fluxes in brine-filled vs. ambient seawater-filled sediment traps. Limnology and Oceanography, 1990, 35, 448-455.	1.6	24
62	Comparative dynamics of paralytic shellfish toxins (PST) in a tolerant and susceptible population of the copepod Acartia hudsonica. Harmful Algae, 2011, 10, 245-253.	2.2	24
63	Influence of predator-prey evolutionary history, chemical alarm-cues, and feeding selection on induction of toxin production in a marine dinoflagellate. Limnology and Oceanography, 2015, 60, 318-328.	1.6	24
64	A multi-phylum study of grazer-induced paralytic shellfish toxin production in the dinoflagellate Alexandrium fundyense: A new perspective on control of algal toxicity. Harmful Algae, 2015, 44, 20-31.	2.2	23
65	Genetic differentiation underlies seasonal variation in thermal tolerance, body size, and plasticity in a shortâ€lived copepod. Ecology and Evolution, 2020, 10, 12200-12210.	0.8	23
66	Global patterns in copepod thermal tolerance. Journal of Plankton Research, 2021, 43, 598-609.	0.8	23
67	Fluctuating selection and global change: a synthesis and review on disentangling the roles of climate amplitude, predictability and novelty. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210727.	1.2	22
68	Negative relationship between thermal tolerance and plasticity in tolerance emerges during experimental evolution in a widespread marine invertebrate. Evolutionary Applications, 2021, 14, 2114-2123.	1.5	21
69	Seasonal distribution of DMSP among seston, dissolved matter and zooplankton along a transect in the Long Island Sound estuary. Marine Ecology - Progress Series, 2000, 206, 1-11.	0.9	21
70	Relative importance of nitrogen sources, algal alarm cues and grazer exposure to toxin production of the marine dinoflagellate Alexandrium catenella. Harmful Algae, 2019, 84, 181-187.	2.2	20
71	Differential responses of populations of the copepod Acartia hudsonica to toxic and nutritionally insufficient food algae. Harmful Algae, 2011, 10, 723-731.	2.2	17
72	Complex interactions between local adaptation, phenotypic plasticity and sex affect vulnerability to warming in a widespread marine copepod. Royal Society Open Science, 2019, 6, 182115.	1.1	17

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73	Deleterious effects of the ciliate epibiont Zoothamnium sp. on fitness of the copepod Acartia tonsa. Journal of Plankton Research, 2014, 36, 788-799.	0.8	16
74	Citizen science observations reveal rapid, multi-decadal ecosystem changes in eastern Long Island Sound. Marine Environmental Research, 2019, 146, 80-88.	1.1	15
75	Affordable Egg Mortality: Constraining Copepod Egg Mortality with Life History Traits. Journal of Plankton Research, 2001, 23, 633-640.	0.8	14
76	Massive egg production by a salp symbiont, the poecilostomatoid copepod Sapphirina angusta Dana, 1849. Journal of Experimental Marine Biology and Ecology, 2007, 348, 145-153.	0.7	13
77	Production, concentration, and isolation of transparent exopolymeric particles using paramagnetic functionalized microspheres. Limnology and Oceanography: Methods, 2004, 2, 13-24.	1.0	12
78	Mercury and methylmercury uptake and trophic transfer from marine diatoms to copepods and field collected zooplankton. Marine Environmental Research, 2021, 170, 105446.	1.1	12
79	No evidence for induction or selection of mutant sodium channel expression in the copepod <scp>A</scp>cartia husdsonica challenged with the toxic dinoflagellate <scp>A</scp>lexandrium fundyense. Ecology and Evolution, 2014, 4, 3470-3481.	0.8	10
80	A novel mutation from gene splicing of a voltage-gated sodium channel in a marine copepod and its potential effect on channel function. Journal of Experimental Marine Biology and Ecology, 2015, 469, 131-142.	0.7	9
81	Female mating status affects mating and male mate-choice in the copepod genus Acartia. Journal of Plankton Research, 2015, 37, 183-196.	0.8	9
82	Effect of diet on the coupling of ingestion and egg production in the ubiquitous copepod, Acartia tonsa. Progress in Oceanography, 2020, 186, 102346.	1.5	9
83	Cell-growth gene expression reveals a direct fitness cost of grazer-induced toxin production in red tide dinoflagellate prey. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202480.	1.2	8
84	Determining the Advantages, Costs, and Trade-Offs of a Novel Sodium Channel Mutation in the Copepod Acartia hudsonica to Paralytic Shellfish Toxins (PST). PLoS ONE, 2015, 10, e0130097.	1.1	8
85	Antagonistic interplay between pH and food resources affects copepod traits and performance in a year-round upwelling system. Scientific Reports, 2020, 10, 62.	1.6	7
86	A novel approach to identifying PST tolerant copepods: An individual ingestion assay. Harmful Algae, 2011, 10, 804-810.	2.2	6
87	First evidence of biased sex ratio at birth in a calanoid copepod. Limnology and Oceanography, 2015, 60, 722-731.	1.6	5
88	Adaptation to simultaneous warming and acidification carries a thermal tolerance cost in a marine copepod. Biology Letters, 2021, 17, 20210071.	1.0	5
89	Sodium channel expression in the copepod Acartia hudsonica as a function of exposure to paralytic shellfish toxin (PST). Harmful Algae, 2014, 39, 75-80.	2.2	4
90	Formalin-preserved zooplankton are not reliable for historical reconstructions of methylmercury bioaccumulation. Science of the Total Environment, 2020, 738, 139803.	3.9	3

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91	Resource and mate availability, and previous social experience modulate mate choice in the copepods Acartia tonsa and Acartia hudsonica. Journal of Experimental Marine Biology and Ecology, 2015, 471, 180-189.	0.7	0
92	William (Bill) Peterson's contributions to ocean science, management, and policy. Progress in Oceanography, 2020, 182, 102241.	1.5	0