Maarten Boersma

List of Publications by Year
in descending order

136 papers	5,344 citations	87843 38 h-index	102432 66 g-index
140 all docs	140 docs citations	140 times ranked	4671 citing authors

#	Article	IF	Citations
1	Predatorâ€Mediated Plasticity in Morphology, Life History, and Behavior ofDaphnia: The Uncoupling of Responses. American Naturalist, 1998, 152, 237-248.	1.0	277
2	Resilience of North Sea phytoplankton spring bloom dynamics: An analysis of longâ€term data at Helgoland Roads. Limnology and Oceanography, 2008, 53, 1294-1302.	1.6	247
3	TOO MUCH OF A GOOD THING: ON STOICHIOMETRICALLY BALANCED DIETS AND MAXIMAL GROWTH. Ecology, 2006, 87, 1325-1330.	1.5	218
4	Helgoland Roads, North Sea: 45ÂYears of Change. Estuaries and Coasts, 2010, 33, 295-310.	1.0	198
5	MINERAL LIMITATION OF ZOOPLANKTON: STOICHIOMETRIC CONSTRAINTS AND OPTIMAL FORAGING. Ecology, 2001, 82, 1260-1269.	1.5	194
6	Nutrient limitation of primary producers affects planktivorous fish condition. Limnology and Oceanography, 2007, 52, 2062-2071.	1.6	137
7	Goldman revisited: Fasterâ€growing phytoplankton has lower N : P and lower stoichiometric flexibility. Limnology and Oceanography, 2013, 58, 2076-2088.	1.6	136
8	STOICHIOMETRY: LINKING ELEMENTS TO BIOCHEMICALS. Ecology, 2004, 85, 1193-1202.	1.5	130
9	Complementary impact of copepods and cladocerans on phytoplankton. Ecology Letters, 2001, 4, 545-550.	3.0	128
10	Cascading predation effects of Daphnia and copepods on microbial food web components. Freshwater Biology, 2003, 48, 2174-2193.	1.2	123
11	Differential effects of nutrient-limited primary production on primary, secondary or tertiary consumers. Oecologia, 2010, 162, 35-48.	0.9	117
12	Nutritional Limitation Travels up the Food Chain. International Review of Hydrobiology, 2008, 93, 479-488.	0.5	107
13	Daphnia versus copepod impact on summer phytoplankton: functional compensation at both trophic levels. Oecologia, 2003, 135, 639-647.	0.9	100
14	The role of ciliates, heterotrophic dinoflagellates and copepods in structuring spring plankton communities at Helgoland Roads, North Sea. Marine Biology, 2011, 158, 1551-1580.	0.7	100
15	Zooplankton eat what they need: copepod selective feeding and potential consequences for marine systems. Oikos, 2016, 125, 50-58.	1.2	96
16	Lipid and Fatty Acid Composition of Diatoms Revisited: Rapid Wound-Activated Change of Food Quality Parameters Influences Herbivorous Copepod Reproductive Success. ChemBioChem, 2007, 8, 1146-1153.	1.3	86
17	The first occurrence of the ctenophore Mnemiopsis leidyi in the North Sea. Helgoland Marine Research, 2007, 61, 153-155.	1.3	85
18	Temperature driven changes in the diet preference of omnivorous copepods: no more meat when it's hot?. Ecology Letters, 2016, 19, 45-53.	3.0	81

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19	Toxic algal bloom induced by ocean acidification disrupts the pelagic food web. Nature Climate Change, 2018, 8, 1082-1086.	8.1	75
20	Increased carbon dioxide availability alters phytoplankton stoichiometry and affects carbon cycling and growth of a marine planktonic herbivore. Marine Biology, 2013, 160, 2145-2155.	0.7	74
21	Control of phytoplankton in a shelf sea: Determination of the main drivers based on the Helgoland Roads Time Series. Journal of Sea Research, 2015, 105, 42-52.	0.6	72
22	Trophodynamics and seasonal cycle of the copepod Pseudocalanus acuspes in the Central Baltic Sea (Bornholm Basin): evidence from lipid composition. Marine Biology, 2006, 149, 1417-1429.	0.7	69
23	Colloquium on diatom-copepod interactions. Marine Ecology - Progress Series, 2005, 286, 293-305.	0.9	68
24	From Elements to Function: Toward Unifying Ecological Stoichiometry and Trait-Based Ecology. Frontiers in Environmental Science, 2017, 5, .	1.5	67
25	The Allocation of Resources to Reproduction in Daphnia Galeata: Against the Odds?. Ecology, 1995, 76, 1251-1261.	1.5	65
26	Influence of Ocean Acidification on a Natural Winter-to-Summer Plankton Succession: First Insights from a Long-Term Mesocosm Study Draw Attention to Periods of Low Nutrient Concentrations. PLoS ONE, 2016, 11, e0159068.	1.1	64
27	Offspring size and parental fitness in Daphnia magna. Evolutionary Ecology, 1997, 11, 439-450.	0.5	62
28	On the cost of vertical migration: are feeding conditions really worse at greater depths?. Freshwater Biology, 2003, 48, 383-393.	1.2	58
29	Effects of poor food quality on copepod growth are dose dependent and nonâ€reversible. Oikos, 2012, 121, 1408-1416.	1.2	53
30	A New Approach to Homeostatic Regulation: Towards a Unified View of Physiological and Ecological Concepts. PLoS ONE, 2014, 9, e107737.	1.1	53
31	Seasonal variation in the interactions between piscivorous fish, planktivorous fish and zooplankton in a shallow eutrophic lake. Hydrobiologia, 1990, 207, 279-286.	1.0	52
32	Influence of Ocean Acidification and Deep Water Upwelling on Oligotrophic Plankton Communities in the Subtropical North Atlantic: Insights from an In situ Mesocosm Study. Frontiers in Marine Science, 2017, 4, .	1.2	49
33	Resource depression in Daphnia galeata, Daphnia cucullata and their interspecific hybrid: life history consequences. Journal of Plankton Research, 1994, 16, 1741-1758.	0.8	46
34	Predator-induced life-history changes and the coexistence of five taxa in a Daphnia species complex. Oikos, 2000, 89, 164-174.	1.2	46
35	Junk food gets healthier when it's warm. Limnology and Oceanography, 2016, 61, 1677-1685.	1.6	45
36	Does the nutrient stoichiometry of primary producers affect the secondary consumer Pleurobrachia pileus?. Aquatic Ecology, 2010, 44, 233-242.	0.7	43

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37	An object-oriented simulation framework for individual-based simulations (OSIRIS): Daphnia population dynamics as an example. Ecological Modelling, 1996, 93, 139-153.	1.2	42
38	Seasonal variations in the condition of two Daphnia species and their hybrid in a eutrophic lake: evidence for food limitation. Journal of Plankton Research, 1994, 16, 1793-1809.	0.8	40
39	Ocean current connectivity propelling the secondary spread of a marine invasive comb jelly across western Eurasia. Global Ecology and Biogeography, 2018, 27, 814-827.	2.7	38
40	Food effects on life history traits and seasonal dynamics of Ceriodaphnia pulchella. Freshwater Biology, 1996, 35, 25-34.	1.2	36
41	Title is missing!. Hydrobiologia, 1997, 350, 131-144.	1.0	36
42	Title is missing!. , 1997, 360, 233-242.		35
43	Sensitivity of Daphnia species to phosphorus-deficient diets. Oecologia, 2010, 162, 349-357.	0.9	35
44	Intraspecific selectivity, compensatory feeding and flexible homeostasis in the phagotrophic flagellate Oxyrrhis marina: three ways to handle food quality fluctuations. Hydrobiologia, 2012, 680, 53-62.	1.0	35
45	Trimethylamine induces migration of waterfleas. Nature, 1999, 398, 382-382.	13.7	34
46	The invasive ctenophore Mnemiopsis leidyi: a threat to fish recruitment in the North Sea?. Journal of Plankton Research, 2011, 33, 137-144.	0.8	34
47	Effects of nitrogen stressed algae on different Acartia species. Journal of Plankton Research, 2006, 28, 429-436.	0.8	33
48	Long-term change in the copepod community in the southern German Bight. Journal of Sea Research, 2015, 101, 41-50.	0.6	32
49	Food Quality Affects Secondary Consumers Even at Low Quantities: An Experimental Test with Larval European Lobster. PLoS ONE, 2012, 7, e33550.	1.1	30
50	Phytoplankton, protozooplankton and nutrient dynamics in the Bornholm Basin (Baltic Sea) in 2002â€“2003 during the German GLOBEC Project. International Journal of Earth Sciences, 2009, 98, 251-260.	0.9	29
51	The microbiome of North Sea copepods. Helgoland Marine Research, 2013, 67, 757-773.	1.3	29
52	Combined effects of predator cues and competition define habitat choice and food consumption of amphipod mesograzers. Oecologia, 2018, 186, 645-654.	0.9	29
53	How do migrating daphnids cope with fish predation risk in the epilimnion under anoxic conditions in the hypolimnion?. Journal of Plankton Research, 2000, 22, 1411-1418.	0.8	28
54	Daphnia diel vertical migration: implications beyond zooplankton. Journal of Plankton Research, 2009, 31, 515-524.	0.8	28

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55	Will Invertebrates Require Increasingly Carbon-Rich Food in a Warming World?. American Naturalist, 2017, 190, 725-742.	1.0	28
56	Competition in natural populations of Daphnia. Oecologia, 1995, 103, 309-318.	0.9	27
57	Spatial and temporal patterns of sexual reproduction in a hybrid Daphnia species complex. Journal of Plankton Research, 2004, 26, 625-635.	0.8	27
58	Microassays for a set of enzymes in individual small marine copepods. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2006, 145, 406-411.	0.8	27
59	Synergistic effects of different food species on life-history traits of Daphnia galeata. Hydrobiologia, 1995, 307, 109-115.	1.0	26
60	Offspring size in Daphnia: does it pay to be overweight?. , 1997, 360, 79-88.		24
61	Response of a zooplankton community to the addition of unsaturated fatty acids: an enclosure study. Freshwater Biology, 2000, 45, 179-188.	1.2	24
62	Maternal effects after sexual reproduction in Daphnia magna. Journal of Plankton Research, 2000, 22, 279-285.	0.8	24
63	Food chain effects of nutrient limitation in primary producers. Marine and Freshwater Research, 2009, 60, 983.	0.7	23
64	Dynamic stoichiometric response to food quality fluctuations in the heterotrophic dinoflagellate Oxyrrhis marina. Marine Biology, 2012, 159, 2241-2248.	0.7	23
65	Predation of calanoid copepods on their own and other copepodsâ€™ offspring. Marine Biology, 2014, 161, 733-743.	0.7	23
66	Plankton responses to ocean acidification: The role of nutrient limitation. Progress in Oceanography, 2018, 165, 11-18.	1.5	23
67	Seasonal Dynamics of Pelagic Mycoplanktonic Communities: Interplay of Taxon Abundance, Temporal Occurrence, and Biotic Interactions. Frontiers in Microbiology, 2020, 11, 1305.	1.5	23
68	Comparative nutritional condition of larval dab Limanda limanda and lesser sandeel Ammodytes marinus in a highly variable environment. Marine Ecology - Progress Series, 2007, 334, 205-212.	0.9	23
69	Effects of infochemicals released by gape-limited fish on life history traits of Daphnia: a maladaptive response?. Journal of Plankton Research, 2004, 26, 535-543.	0.8	22
70	Differential Impacts of Copepods and Cladocerans on Lake Seston, and Resulting Effects on Zooplankton Growth. Hydrobiologia, 2004, 526, 197-207.	1.0	22
71	Ocean acidification effects on mesozooplankton community development: Results from a long-term mesocosm experiment. PLoS ONE, 2017, 12, e0175851.	1.1	22
72	Dietary-induced responses in the phagotrophic flagellate Oxyrrhis marina. Marine Biology, 2010, 157, 1641-1651.	0.7	21

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73	The reaction of European lobster larvae (Homarus gammarus) to different quality food: effects of ontogenetic shifts and pre-feeding history. Oecologia, 2014, 174, 581-594.	0.9	21
74	Effects of food and CO2 on growth dynamics of polyps of two scyphozoan species (Cyanea capillata) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	20
75	Low CO2 Sensitivity of Microzooplankton Communities in the Gullmar Fjord, Skagerrak: Evidence from a Long-Term Mesocosm Study. PLoS ONE, 2016, 11, e0165800.	1.1	20
76	Projecting effects of climate change on marine systems: is the mean all that matters?. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152274.	1.2	20
77	Effects of high CO2 and warming on a Baltic Sea microzooplankton community. ICES Journal of Marine Science, 2016, 73, 772-782.	1.2	20
78	Title is missing!. Hydrobiologia, 2001, 442, 185-193.	1.0	19
79	Impact of swimming behaviour and nutrient limitation on predatorâ€"prey interactions in pelagic microbial food webs. Journal of Experimental Marine Biology and Ecology, 2013, 446, 29-35.	0.7	19
80	Reconstructing the realized niche of phytoplankton species from environmental data: fitness versus abundance approach. Limnology and Oceanography: Methods, 2011, 9, 432-442.	1.0	18
81	Acclimation and adaptation of the coastal calanoid copepod Acartia tonsa to ocean acidification: a long-term laboratory investigation. Marine Ecology - Progress Series, 2019, 619, 35-51.	0.9	18
82	Withstanding multiple stressors: ephyrae of the moon jellyfish (Aurelia aurita, Scyphozoa) in a high-temperature, high-CO2 and low-oxygen environment. Marine Biology, 2016, 163, 1.	0.7	17
83	Addressing critical limitations of oyster (<i>Ostrea edulis</i>) restoration: Identification of natureâ€based substrates for hatchery production and recruitment in the field. Aquatic Conservation: Marine and Freshwater Ecosystems, 2020, 30, 2101-2115.	0.9	17
84	Title is missing!. Hydrobiologia, 1997, 350, 145-162.	1.0	16
85	A new method of describing phytoplankton blooms: Examples from Helgoland Roads. Journal of Marine Systems, 2010, 79, 36-43.	0.9	16
86	Host-parasitoid associations in marine planktonic time series: Can metabarcoding help reveal them?. PLoS ONE, 2021, 16, e0244817.	1.1	16
87	Grazer-induced changes in the desmid Staurastrum. Hydrobiologia, 2003, 491, 255-260.	1.0	15
88	Effects of temperature and the presence of benthic predators on the vertical distribution of the ctenophore Pleurobrachia pileus. Marine Biology, 2004, 145, 595.	0.7	15
89	Environmentally induced functional shifts in phytoplankton and their potential consequences for ecosystem functioning. Global Change Biology, 2022, 28, 2804-2819.	4.2	15
90	Nutrient gradients and spatial structure in tropical forests: a model study. Ecological Modelling, 1991, 55, 219-240.	1.2	14

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91	Facilitation of intraguild prey by its intraguild predator in a three-species Lotkaâ€“Volterra model. Theoretical Population Biology, 2014, 92, 55-61.	0.5	14
92	Direct and indirect effects of near-future pCO2 levels on zooplankton dynamics. Marine and Freshwater Research, 2017, 68, 373.	0.7	14
93	Winter river discharge may affect summer estuarine jellyfish blooms. Marine Ecology - Progress Series, 2018, 591, 253-265.	0.9	14
94	Gut passage of phosphorus-limited algae through Daphnia: do they take up nutrients in the process?. Archiv FÃ¼r Hydrobiologie, 2006, 167, 489-500.	1.1	13
95	Trophic flexibility in larvae of two fish species (lesser sandeel, <i>Ammodytes marinus</i> and dab,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	13
96	Bioenergetics of the copepod Temora longicornis under different nutrient regimes. Journal of Plankton Research, 2018, 40, 420-435.	0.8	12
97	Comparison of different DNA-extraction techniques to investigate the bacterial community of marine copepods. Helgoland Marine Research, 2010, 64, 331-342.	1.3	11
98	The craving for phosphorus in heterotrophic dinoflagellates and its potential implications for biogeochemical cycles. Limnology and Oceanography, 2018, 63, 1774-1784.	1.6	11
99	Rapid succession drives spring community dynamics of small protists at Helgoland Roads, North Sea. Journal of Plankton Research, 2020, 42, 305-319.	0.8	11
100	Microbial predators promote their competitors: commensalism within an intra-guild predation system in microzooplankton. Ecosphere, 2014, 5, art128.	1.0	11
101	Year-to-year variation in larval fish assemblages of the Southern North Sea. Helgoland Marine Research, 2007, 61, 117-126.	1.3	10
102	Contribution to a bio-optical model for remote sensing of Lena River water. Biogeosciences, 2013, 10, 7081-7094.	1.3	10
103	Dietary and seasonal variability in trophic relations at the base of the North Sea pelagic food web revealed by stable isotope and fatty acid analysis. Journal of Sea Research, 2018, 141, 61-70.	0.6	10
104	High CO2 and warming affect microzooplankton food web dynamics in a Baltic Sea summer plankton community. Marine Biology, 2020, 167, 1.	0.7	10
105	Metabarcoding analysis suggests that flexible food web interactions in the eukaryotic plankton community are more common than specific predatorâ€“prey relationships at Helgoland Roads, North Sea. ICES Journal of Marine Science, 0, , .	1.2	10
106	Community barcoding reveals little effect of ocean acidification on the composition of coastal plankton communities: Evidence from a long-term mesocosm study in the Gullmar Fjord, Skagerrak. PLoS ONE, 2017, 12, e0175808.	1.1	10
107	Impacts of copepods on marine seston, and resulting effects on Calanus finmarchicus RNA:DNA ratios in mesocosm experiments. Marine Biology, 2005, 146, 531-541.	0.7	9
108	Analyzing the Impacts of Elevated-CO2 Levels on the Development of a Subtropical Zooplankton Community During Oligotrophic Conditions and Simulated Upwelling. Frontiers in Marine Science, 2019, 6, .	1.2	9

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109	Factors influencing the grazing response of the marine oligotrichous ciliate Strombidium cf. sulcatum. Aquatic Microbial Ecology, 2015, 74, 59-71.	0.9	9
110	Does trimethylamine induce life-history reactions in Daphnia?. Hydrobiologia, 2001, 442, 199-206.	1.0	8
111	Predator mediated coexistence of hybrid and parental Daphnia taxa. Archiv FÃ¼r Hydrobiologie, 2006, 167, 55-76.	1.1	8
112	Phenological shifts of three interacting zooplankton groups in relation to climate change. Global Change Biology, 2010, 16, 3144-3153.	4.2	8
113	Does prey elemental stoichiometry influence copepod movement over ontogeny?. Limnology and Oceanography, 2019, 64, 2467-2477.	1.6	8
114	You are not always what you eatâ€"Fatty acid bioconversion and lipid homeostasis in the larvae of the sand mason worm Lanice conchilega. PLoS ONE, 2019, 14, e0218015.	1.1	8
115	Upward phosphorus transport by Daphnia diel vertical migration. Limnology and Oceanography, 2010, 55, 529-534.	1.6	8
116	Differential effects of elevated <scp><i>p</i>CO₂</scp> and warming on marine phytoplankton stoichiometry. Limnology and Oceanography, 2022, 67, 598-607.	1.6	8
117	An integrated multiple driver mesocosm experiment reveals the effect of global change on planktonic food web structure. Communications Biology, 2022, 5, 179.	2.0	8
118	Possible toxic effects on Daphnia resulting from the green alga Scenedesmus obliquus. Hydrobiologia, 1994, 294, 99-103.	1.0	7
119	Culture conditions affect fatty acid content along with wound-activated production of polyunsaturated aldehydes in Thalassiosira rotula (Coscinodiscophyceae). Nova Hedwigia, 2010, 136, 231-248.	0.2	7
120	Temperatureâ€driven changes in the diet preference of omnivorous copepods: no more meat when it's hot? AÂresponse to Winder <i>et al</i>.. Ecology Letters, 2016, 19, 1386-1388.	3.0	6
121	Environmental impacts on single-cell variation within a ubiquitous diatom: The role of growth rate. PLoS ONE, 2021, 16, e0251213.	1.1	6
122	Noisy waters can influence young-of-year lobstersâ€™ substrate choice and their antipredatory responses. Environmental Pollution, 2021, 291, 118108.	3.7	6
123	Gelatinous and soft-bodied zooplankton in the Northeast Pacific Ocean: Phosphorus content and potential resilience to phosphorus limitation. Hydrobiologia, 2022, 849, 1543-1557.	1.0	6
124	Partial decoupling from the temperature size rule by North Sea copepods. Marine Biology, 2019, 166, 1.	0.7	4
125	Maturation of the digestive system of Downs herring larvae (Clupea harengus, Linnaeus, 1758): identification of critical periods through ontogeny. Marine Biology, 2021, 168, 1.	0.7	4
126	Effects of essential fatty acids on the reproduction of a generalist herbivore. Journal of Plankton Research, 2007, 29, 463-470.	0.8	3

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127	Initial size structure of natural phytoplankton communities determines the response to Daphnia diel vertical migration. Journal of Limnology, 2012, 71, 13.	0.3	3
128	A matter of time and proportion: the availability of phosphorus-rich phytoplankton influences growth and behavior of copepod nauplii. Journal of Plankton Research, 2020, 42, 530-538.	0.8	2
129	Leveraging differences in multiple prey traits allows selective copepods to meet their threshold elemental ratios. Limnology and Oceanography, 2021, 66, 2914-2922.	1.6	2
130	Effects of low-frequency noise and temperature on copepod and amphipod performance. Proceedings of Meetings on Acoustics, 2019, , .	0.3	2
131	Stable coexistence in a Lotka-Volterra model with heterogeneous resources and intraguild predation. Physical Review E, 2013, 88, 062721.	0.8	1
132	Cox2 community barcoding at Prince Edward Island reveals long-distance dispersal of a downy mildew species and potentially marine members of the Saprolegniaceae. Mycological Progress, 2021, 20, 509-516.	0.5	1
133	Winfried Lampert: Natural selection is ecology in action. Archiv FÃ¼r Hydrobiologie, 2006, 167, i-v.	1.1	0
134	A new phase for Helgoland Marine Research. Helgoland Marine Research, 2016, 70, .	1.3	0
135	50 years of the European Marine Biology symposium â€“ a continuing success story. Journal of the Marine Biological Association of the United Kingdom, 2017, 97, 463-464.	0.4	0
136	Wulf Greve (1942â€“2018). Helgoland Marine Research, 2018, 72, .	1.3	0