Dedmer B. Van de Waal

List of Publications by Citations

69 papers	2,650 citations	29 h-index	50 g-index
76 ext. papers	3,551 ext. citations	5.9 avg, IF	5.28 L-index

#	Paper	IF	Citations
69	Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring. *Journal of Applied Ecology*, **2018**, 55, 169-184	5.8	247
68	The dual role of nitrogen supply in controlling the growth and toxicity of cyanobacterial blooms. *Harmful Algae*, **2016**, 54, 87-97	5.3	208
67	The ecological stoichiometry of toxins produced by harmful cyanobacteria: an experimental test of the carbon-nutrient balance hypothesis. *Ecology Letters*, **2009**, 12, 1326-35	10	154
66	Reversal in competitive dominance of a toxic versus non-toxic cyanobacterium in response to rising CO2. *ISME Journal*, **2011**, 5, 1438-50	11.9	151
65	Climate-driven changes in the ecological stoichiometry of aquatic ecosystems. *Frontiers in Ecology and the Environment*, **2010**, 8, 145-152	5.5	145
64	Rising CO2 levels will intensify phytoplankton blooms in eutrophic and hypertrophic lakes. *PLoS ONE*, **2014**, 9, e104325	3.7	115
63	Stoichiometric regulation of phytoplankton toxins. *Ecology Letters*, **2014**, 17, 736-42	10	106
62	Integrating chytrid fungal parasites into plankton ecology: research gaps and needs. *Environmental Microbiology*, **2017**, 19, 3802-3822	5.2	91
61	Cross continental increase in methane ebullition under climate change. *Nature Communications*, **2017**, 8, 1682	17.4	88
60	Contrasting effects of rising CO2 on primary production and ecological stoichiometry at different nutrient levels. *Ecology Letters*, **2014**, 17, 951-60	10	75
59	Community stoichiometry in a changing world: combined effects of warming and eutrophication on phytoplankton dynamics. *Ecology*, **2014**, 95, 1485-95	4.6	72
58	Combined effects of nitrogen to phosphorus and nitrate to ammonia ratios on cyanobacterial metabolite concentrations in eutrophic Midwestern USA reservoirs. *Inland Waters*, **2016**, 6, 199-210	2.4	48
57	Estimates of bacterial and phytoplankton mortality caused by viral lysis and microzooplankton grazing in a shallow eutrophic lake. *Freshwater Biology*, **2008**, 53, 1126-1141	3.1	47
56	Warming accelerates termination of a phytoplankton spring bloom by fungal parasites. *Global Change Biology*, **2016**, 22, 299-309	11.4	47
55	Characterization of multiple isolates from an Alexandrium ostenfeldii bloom in The Netherlands. *Harmful Algae*, **2015**, 49, 94-104	5.3	46
54	Pulsed nitrogen supply induces dynamic changes in the amino acid composition and microcystin production of the harmful cyanobacterium Planktothrix agardhii. *FEMS Microbiology Ecology*, **2010**, 74, 430-8	4.3	44
53	From Elements to Function: Toward Unifying Ecological Stoichiometry and Trait-Based Ecology. *Frontiers in Environmental Science*, **2017**, 5,	4.8	43

52	Warming advances top-down control and reduces producer biomass in a freshwater plankton community. *Ecosphere*, **2017**, 8, e01651	3.1	42
51	Intraspecific facilitation by allelochemical mediated grazing protection within a toxigenic dinoflagellate population. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20141268	4.4	40
50	Intraspecific trait variation and trade-offs within and across populations of a toxic dinoflagellate. *Ecology Letters*, **2018**, 21, 1561-1571	10	40
49	Differential effects of ocean acidification on carbon acquisition in two bloom-forming dinoflagellate species. *Physiologia Plantarum*, **2014**, 151, 468-79	4.6	39
48	Shifting states, shifting services: Linking regime shifts to changes in ecosystem services of shallow lakes. *Freshwater Biology*, **2021**, 66, 1-12	3.1	39
47	Impact of elevated pCO□on paralytic shellfish poisoning toxin content and composition in Alexandrium tamarense. *Toxicon*, **2014**, 78, 58-67	2.8	36
46	The influence of balanced and imbalanced resource supply on biodiversity-functioning relationship across ecosystems. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	35
45	Ocean acidification reduces growth and calcification in a marine dinoflagellate. *PLoS ONE*, **2013**, 8, e65987	3.7	34
44	Think ratio! A stoichiometric view on biodiversity□ecosystem functioning research. *Basic and Applied Ecology*, **2014**, 15, 465-474	3.2	32
43	Interactive effects of ocean acidification and nitrogen limitation on two bloom-forming dinoflagellate species. *Marine Ecology - Progress Series*, **2016**, 543, 127-140	2.6	32
42	Enhancement of co-production of nutritional protein and carotenoids in Dunaliella salina using a two-phase cultivation assisted by nitrogen level and light intensity. *Bioresource Technology*, **2019**, 287, 121398	11	30
41	Amino acid availability determines the ratio of microcystin variants in the cyanobacterium Planktothrix agardhii. *FEMS Microbiology Ecology*, **2008**, 65, 383-90	4.3	30
40	Toward an Ecologically Optimized N:P Recovery from Wastewater by Microalgae. *Frontiers in Microbiology*, **2017**, 8, 1742	5.7	24
39	Fungal parasites of a toxic inedible cyanobacterium provide food to zooplankton. *Limnology and Oceanography*, **2018**, 63, 2384-2393	4.8	22
38	Meta-analysis reveals enhanced growth of marine harmful algae from temperate regions with warming and elevated CO levels. *Global Change Biology*, **2019**, 25, 2607-2618	11.4	21
37	Multiple global change stressor effects on phytoplankton nutrient acquisition in a future ocean. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190706	5.8	21
36	Changes in N:P Supply Ratios Affect the Ecological Stoichiometry of a Toxic Cyanobacterium and Its Fungal Parasite. *Frontiers in Microbiology*, **2017**, 8, 1015	5.7	21
35	Effects of ocean acidification on primary production in a coastal North Sea phytoplankton community. *PLoS ONE*, **2017**, 12, e0172594	3.7	21

34	Highest plasticity of carbon-concentrating mechanisms in earliest evolved phytoplankton. *Limnology and Oceanography Letters*, **2019**, 4, 37-43	7.9	21
33	Combined physical, chemical and biological factors shape Alexandrium ostenfeldii blooms in The Netherlands. *Harmful Algae*, **2017**, 63, 146-153	5.3	20
32	Phytoplankton growth and stoichiometric responses to warming, nutrient addition and grazing depend on lake productivity and cell size. *Global Change Biology*, **2019**, 25, 2751-2762	11.4	20
31	Nutrient pulse induces dynamic changes in cellular C:N:P, amino acids, and paralytic shellfish poisoning toxins in Alexandrium tamarense. *Marine Ecology - Progress Series*, **2013**, 493, 57-69	2.6	20
30	Growth strategy, phylogeny and stoichiometry determine the allelopathic potential of native and non-native plants. *Oikos*, **2017**, 126, 1770-1779	4	18
29	Stable carbon isotope fractionation of organic cyst-forming dinoflagellates: Evaluating the potential for a CO2 proxy. *Geochimica Et Cosmochimica Acta*, **2015**, 160, 267-276	5.5	18
28	Phenotypic plasticity of carbon fixation stimulates cyanobacterial blooms at elevated CO. *Science Advances*, **2020**, 6, eaax2926	14.3	18
27	Effects of Nutrient Limitation on the Synthesis of N-Rich Phytoplankton Toxins: A Meta-Analysis. *Toxins*, **2020**, 12,	4.9	18
26	Elevated pCO2 causes a shift towards more toxic microcystin variants in nitrogen-limited Microcystis aeruginosa. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	18
25	CO-dependent carbon isotope fractionation in dinoflagellates relates to their inorganic carbon fluxes. *Journal of Experimental Marine Biology and Ecology*, **2016**, 481, 9-14	2.1	18
24	Species sorting and stoichiometric plasticity control community C:P ratio of first-order aquatic consumers. *Ecology Letters*, **2017**, 20, 751-760	10	17
23	Disease-mediated ecosystem services: Pathogens, plants, and people. *Trends in Ecology and Evolution*, **2020**, 35, 731-743	10.9	15
22	Cyanophage Propagation in the Freshwater Cyanobacterium Is Constrained by Phosphorus Limitation and Enhanced by Elevated CO. *Frontiers in Microbiology*, **2019**, 10, 617	5.7	13
21	Biological stoichiometry of oleaginous microalgal lipid synthesis: The role of N:P supply ratios and growth rate on microalgal elemental and biochemical composition. *Algal Research*, **2018**, 32, 353-361	5	13
20	Nitrogen fixation and respiratory electron transport in the cyanobacterium Cyanothece under different light/dark cycles. *FEMS Microbiology Ecology*, **2014**, 87, 630-8	4.3	12
19	Impacts of warming on top-down and bottom-up controls of periphyton production. *Scientific Reports*, **2018**, 8, 9901	4.9	11
18	Combined Effects of Ocean Acidification and Light or Nitrogen Availabilities on 13C Fractionation in Marine Dinoflagellates. *PLoS ONE*, **2016**, 11, e0154370	3.7	9
17	Salinity effects on growth and toxin production in anAlexandrium ostenfeldii(Dinophyceae) isolate from The Netherlands. *Journal of Plankton Research*, **2016**, 38, 1302-1316	2.2	9

16	Shake it easy: a gently mixed continuous culture system for dinoflagellates. *Journal of Plankton Research*, **2014**, 36, 889-894	2.2	8
15	Ocean acidification increases domoic acid contents during a spring to summer succession of coastal phytoplankton. *Harmful Algae*, **2020**, 92, 101697	5.3	7
14	Trophic position, elemental ratios and nitrogen transfer in a planktonic host-parasite-consumer food chain including a fungal parasite. *Oecologia*, **2020**, 194, 541-554	2.9	7
13	The potential of zooplankton in constraining chytrid epidemics in phytoplankton hosts. *Ecology*, **2020**, 101, e02900	4.6	7
12	Combined Effects of Elevated CO and Warming Facilitate Cyanophage Infections. *Frontiers in Microbiology*, **2017**, 8, 1096	5.7	6
11	Warming advances virus population dynamics in a temperate freshwater plankton community. *Limnology and Oceanography Letters*, **2020**, 5, 295-304	7.9	4
10	Elements of disease in a changing world: modelling feedbacks between infectious disease and ecosystems. *Ecology Letters*, **2021**, 24, 6-19	10	4
9	Coccolithophore calcification studied by single-cell impedance cytometry: Towards single-cell PIC:POC measurements. *Biosensors and Bioelectronics*, **2020**, 173, 112808	11.8	4
8	The coupling between irradiance, growth, photosynthesis and prymnesin cell quota and production in two strains of the bloom-forming haptophyte, Prymnesium parvum.. *Harmful Algae*, **2022**, 112, 102173	5.3	2
7	Molecular detection of harmful cyanobacteria and expression of their toxin genes in Dutch lakes using multi-probe RNA chips. *Harmful Algae*, **2018**, 72, 25-35	5.3	1
6	Impacts of sediment resuspension on phytoplankton biomass production and trophic transfer: Implications for shallow lake restoration. *Science of the Total Environment*, **2021**, 808, 152156	10.2	1
5	Phytoplankton Growth and Nutrients **2021**,		1
4	Ecological stoichiometry of functional traits in a colonial harmful cyanobacterium. *Limnology and Oceanography*, **2021**, 66, 2051-2062	4.8	1
3	Changing elemental cycles, stoichiometric mismatches, and consequences for pathogens of primary producers. *Oikos*, **2021**, 130, 1046	4	1
2	Intraspecific variation in multiple trait responses of Alexandrium ostenfeldii towards elevated pCO. *Harmful Algae*, **2021**, 101, 101970	5.3	1
1	Drivers of phytoplankton community structure change with ecosystem ontogeny during the Quaternary. *Quaternary Science Reviews*, **2021**, 265, 107046	3.9	1