Martin Graeve

List of Publications by Year
in descending order

93 papers	3,910 citations	147801 31 h-index	133252 59 g-index
94 all docs	94 docs citations	94 times ranked	3581 citing authors

#	Article	IF	Citations
1	Timing of blooms, algal food quality and <i>Calanus glacialis</i> reproduction and growth in a changing Arctic. Global Change Biology, 2010, 16, 3154-3163.	9.5	292
2	Diet-induced changes in the fatty acid composition of Arctic herbivorous copepods: Experimental evidence of trophic markers. Journal of Experimental Marine Biology and Ecology, 1994, 182, 97-110.	1.5	270
3	Lipids in Arctic benthos: does the fatty acid and alcohol composition reflect feeding and trophic interactions?. Polar Biology, 1997, 18, 53-61.	1.2	233
4	Herbivorous or omnivorous? On the significance of lipid compositions as trophic markers in Antarctic copepods. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 915-924.	1.4	148
5	Fatty acid composition of Arctic and Antarctic macroalgae: indicator of phylogenetic and trophic relationships. Marine Ecology - Progress Series, 2002, 231, 67-74.	1.9	147
6	The importance of ice algae-produced carbon in the central Arctic Ocean ecosystem: Food web relationships revealed by lipid and stable isotope analyses. Limnology and Oceanography, 2016, 61, 2027-2044.	3.1	141
7	Improved separation and quantification of neutral and polar lipid classes by HPLCâ€“ELSD using a monolithic silica phase: Application to exceptional marine lipids. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 1815-1819.	2.3	119
8	The Arctic sea butterfly Limacina helicina: lipids and life strategy. Marine Biology, 2005, 147, 169-177.	1.5	116
9	Assimilation and biosynthesis of lipids in Arctic Calanus species based on feeding experiments with a 13C labelled diatom. Journal of Experimental Marine Biology and Ecology, 2005, 317, 109-125.	1.5	115
10	Ontogenetic and seasonal changes in lipid and fatty acid/alcohol compositions of the dominant Antarctic copepods Calanus propinquus, Calanoides acutus and Rhincalanus gigas. Marine Biology, 1994, 118, 637-644.	1.5	105
11	Combined lipid, fatty acid and digestive tract content analyses: a penetrating approach to estimate feeding modes of Antarctic amphipods. Polar Biology, 2001, 24, 853-862.	1.2	98
12	Perspectives on marine zooplankton lipids. Canadian Journal of Fisheries and Aquatic Sciences, 2007, 64, 1628-1639.	1.4	96
13	Trophic position of Antarctic amphipodsÂ—enhanced analysis by a 2-dimensional biomarker assay. Marine Ecology - Progress Series, 2005, 300, 135-145.	1.9	85
14	Fatty acid and alcohol composition of the small polar copepods, Oithona and Oncaea : indication on feeding modes. Polar Biology, 2003, 26, 666-671.	1.2	79
15	Strong linkage of polar cod (Boreogadus saida) to sea ice algae-produced carbon: Evidence from stomach content, fatty acid and stable isotope analyses. Progress in Oceanography, 2017, 152, 62-74.	3.2	79
16	Exceptional lipids and fatty acids in the pteropod Clione limacina (Gastropoda) from both polar oceans. Marine Chemistry, 1998, 61, 219-228.	2.3	70
17	Mitochondrial Acclimation Capacities to Ocean Warming and Acidification Are Limited in the Antarctic Nototheniid Fish, Notothenia rossii and Lepidonotothen squamifrons. PLoS ONE, 2013, 8, e68865.	2.5	70
18	Lipid, fatty acid and protein utilization during lecithotrophic larval development of Lithodes santolla (Molina) and Paralomis granulosa (Jacquinot). Journal of Experimental Marine Biology and Ecology, 2003, 292, 61-74.	1.5	66

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19	Lipid composition and utilization in developing eggs of two tropical marine caridean shrimps (Decapoda: Caridea: Alpheidae, Palaemonidae). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 121, 457-463.	1.6	62
20	On the lipid biochemistry of polar copepods: compositional differences in the Antarctic calanoids Euchaeta antarctica and Euchirella rostromagna. Marine Biology, 1995, 123, 451-457.	1.5	59
21	Feeding rates and selectivity among nauplii, copepodites and adult females of Calanus finmarchicus and Calanus helgolandicus. Helgoland Marine Research, 2002, 56, 169-176.	1.3	56
22	Lipid sac area as a proxy for individual lipid content of arctic calanoid copepods. Journal of Plankton Research, 2010, 32, 1471-1477.	1.8	55
23	Ice Algae-Produced Carbon Is Critical for Overwintering of Antarctic Krill Euphausia superba. Frontiers in Marine Science, 2017, 4, .	2.5	55
24	Life strategy and diet of Calanus glacialis during the winterâ€“spring transition in Amundsen Gulf, south-eastern Beaufort Sea. Polar Biology, 2011, 34, 1929-1946.	1.2	44
25	The Arctic pteropod Clione limacina: seasonal lipid dynamics and life-strategy. Marine Biology, 2005, 147, 707-717.	1.5	42
26	Photosynthesis and lipid composition of the Antarctic endemic rhodophyte Palmaria decipiens: effects of changing light and temperature levels. Polar Biology, 2010, 33, 945-955.	1.2	42
27	Mode of action of membrane-disruptive lytic compounds from the marine dinoflagellate Alexandrium tamarense. Toxicon, 2011, 58, 247-258.	1.6	41
28	Dependency of Antarctic zooplankton species on ice algaeâ€produced carbon suggests a sea iceâ€driven pelagic ecosystem during winter. Global Change Biology, 2018, 24, 4667-4681.	9.5	38
29	Effects of prolonged darkness and temperature on the lipid metabolism in the benthic diatom Navicula perminuta from the Arctic Adventfjorden, Svalbard. Polar Biology, 2017, 40, 1425-1439.	1.2	37
30	Temperature-dependent lipid levels and components in polar and temperate eelpout (Zoarcidae). Fish Physiology and Biochemistry, 2008, 34, 261-274.	2.3	36
31	Mesopelagic Sound Scattering Layers of the High Arctic: Seasonal Variations in Biomass, Species Assemblage, and Trophic Relationships. Frontiers in Marine Science, 2019, 6, .	2.5	35
32	Spatio-temporal variability in the winter diet of larval and juvenile Antarctic krill, Euphausia superba, in ice-covered waters. Marine Ecology - Progress Series, 2017, 580, 101-115.	1.9	35
33	The fate of dietary lipids in the Arctic ctenophore Mertensia ovum (Fabricius 1780). Marine Biology, 2008, 153, 643-651.	1.5	33
34	Dominant amphipods of <i><scp>P</scp>osidonia oceanica</i> seagrass meadows display considerable trophic diversity. Marine Ecology, 2015, 36, 969-981.	1.1	32
35	Shortâ€•and longâ€•term acclimation patterns of the giant kelp <i>Macrocystis pyrifera</i> (Laminariales,) Tj ETQq1 1 0.784314 rgBT /O	2.3	31
36	Handling and Storage Procedures Have Variable Effects on Fatty Acid Content in Fishes with Different Lipid Quantities. PLoS ONE, 2016, 11, e0160497.	2.5	31

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37	Species-specific differences in intact wax esters of Calanus hyperboreus and C. finmarchicus from Fram Strait â€” Greenland Sea. Marine Chemistry, 1992, 39, 269-281.	2.3	29
38	Limnocalanus macrurus in the Kara Sea (Arctic Ocean): an opportunistic copepod as evident from distribution and lipid patterns. Polar Biology, 2003, 26, 720-726.	1.2	29
39	Arctic pelagic amphipods: lipid dynamics and life strategy. Journal of Plankton Research, 2015, 37, 790-807.	1.8	29
40	The selection and analysis of fatty acid ratios: A new approach for the univariate and multivariate analysis of fatty acid trophic markers in marine pelagic organisms. Limnology and Oceanography: Methods, 2020, 18, 196-210.	2.0	29
41	Carbon flow through the pelagic food web in southern Chilean Patagonia: relevance of Euphausia vallentini as a key species. Marine Ecology - Progress Series, 2016, 557, 91-110.	1.9	26
42	Bioenergetics of early life-history stages of the brachyuran crab Cancer setosus in response to changes in temperature. Journal of Experimental Marine Biology and Ecology, 2009, 374, 160-166.	1.5	25
43	Cyanobacteria in Scandinavian coastal waters â€” A potential source for biofuels and fatty acids?. Algal Research, 2014, 5, 42-51.	4.6	25
44	Lipid content and fatty acid consumption in zoospores/developing gametophytes of Saccharina latissima (Laminariales, Phaeophyceae) as potential precursors for secondary metabolites as phlorotannins. Polar Biology, 2011, 34, 1011-1018.	1.2	24
45	The other krill: overwintering physiology of adult Thysanoessa inermis (Euphausiacea) from the highâ€‘Arctic Kongsfjord. Aquatic Biology, 2015, 23, 225-235.	1.4	24
46	Feeding of Clausocalanids (Calanoida, Copepoda) on naturally occurring particles in the northern Gulf of Aqaba (Red Sea). Marine Biology, 2007, 151, 1261-1274.	1.5	23
47	Lipid composition and trophic relationships of krill species in a high Arctic fjord. Polar Biology, 2016, 39, 1803-1817.	1.2	23
48	The influence of Arctic Fe and Atlantic fixed N on summertime primary production in Fram Strait, North Greenland Sea. Scientific Reports, 2020, 10, 15230.	3.3	23
49	Impact of feeding and starvation on the lipid metabolism of the Arctic pteropod Clione limacina. Journal of Experimental Marine Biology and Ecology, 2006, 328, 98-112.	1.5	21
50	Biogeochemical markers across a pollution gradient in a Patagonian estuary: A multidimensional approach of fatty acids and stable isotopes. Marine Pollution Bulletin, 2018, 137, 617-626.	5.0	20
51	Selective feeding in Southern Ocean key grazersâ€”diet composition of krill and salps. Communications Biology, 2021, 4, 1061.	4.4	20
52	Seasonal abundance and feeding patterns of copepods Temora longicornis, Centropages hamatus and Acartia spp. in the White Sea (66Â°N). Polar Biology, 2011, 34, 1175-1195.	1.2	19
53	Planktonic trophic interactions in a human-impacted estuary of Argentina: a fatty acid marker approach. Journal of Plankton Research, 2014, 36, 776-787.	1.8	19
54	Species separation within the <i>Lessonia nigrescens</i> complex (Phaeophyceae, Laminariales) is mirrored by ecophysiological traits. Botanica Marina, 2015, 58, 81-92.	1.2	19

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55	Varying dependency of Antarctic euphausiids on ice algae- and phytoplankton-derived carbon sources during summer. Marine Biology, 2019, 166, 1.	1.5	18
56	Spatial and Temporal Variability of Ice Algal Trophic Markersâ€"With Recommendations about Their Application. Journal of Marine Science and Engineering, 2020, 8, 676.	2.6	18
57	Exceptional long-term starvation ability and sites of lipid storage of the Arctic pteropod Clione limacina. Polar Biology, 2007, 30, 571-580.	1.2	17
58	Trophic importance of microphytobenthos and bacteria to meiofauna in soft-bottom intertidal habitats: A combined trophic marker approach. Marine Environmental Research, 2019, 149, 50-66.	2.5	17
59	Multiple Trophic Markers Trace Dietary Carbon Sources in Barents Sea Zooplankton During Late Summer. Frontiers in Marine Science, 2021, 7, .	2.5	17
60	Food sources of macrozoobenthos in an Arctic kelp belt: trophic relationships revealed by stable isotope and fatty acid analyses. Marine Ecology - Progress Series, 2019, 615, 31-49.	1.9	17
61	An Arctic Strait of Two Halves: The Changing Dynamics of Nutrient Uptake and Limitation Across the Fram Strait. Global Biogeochemical Cycles, 2021, 35, e2021GB006961.	4.9	15
62	A year-round study on metabolic enzymes and body composition of the Arctic copepod Calanus glacialis: implications for the timing and intensity of diapause. Marine Biology, 2017, 164, 1.	1.5	14
63	Latitudinal variation in maternal investment traits of the kelp crab Taliepus dentatus along the coast of Chile. Marine Biology, 2018, 165, 1.	1.5	14
64	Winter Carnivory and Diapause Counteract the Reliance on Ice Algae by Barents Sea Zooplankton. Frontiers in Marine Science, 2021, 8, .	2.5	14
65	Adaptation strategies of copepods (superfamily Centropagoidea) in the White Sea (66Â°N). Polar Biology, 2009, 32, 133-146.	1.2	12
66	A (too) bright future? Arctic diatoms under radiation stress. Polar Biology, 2016, 39, 1711-1724.	1.2	12
67	Metabolism and foraging strategies of midâ€latitude mesozooplankton during cyanobacterial blooms as revealed by fatty acids, amino acids, and their stable carbon isotopes. Ecology and Evolution, 2019, 9, 9916-9934.	1.9	12
68	Submesoscale physicochemical dynamics directly shape bacterioplankton community structure in space and time. Limnology and Oceanography, 2021, 66, 2901-2913.	3.1	12
69	Lipid and fatty acid turnover of the pteropods Limacina helicina, L. retroversa and Clione limacina from Svalbard waters. Marine Ecology - Progress Series, 2019, 609, 133-149.	1.9	12
70	Monitoring a changing Arctic: Recent advancements in the study of sea ice microbial communities. Ambio, 2022, 51, 318-332.	5.5	12
71	Lipid dynamics and feeding of dominant Antarctic calanoid copepods in the eastern Weddell Sea in December. Polar Biology, 2009, 32, 1597-1606.	1.2	11
72	Energy reserves of Southern Ocean copepods: Triacylglycerols with unusually long-chain monounsaturated fatty acids. Marine Chemistry, 2012, 138-139, 7-12.	2.3	11

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73	Phlorotannin Production and Lipid Oxidation as a Potential Protective Function Against High Photosynthetically Active and UV Radiation in Gametophytes of <i>Alaria esculenta</i> (Alariales,) Tj ETQq1 1 0.784314 rgBT /Overlock	4.5	11
74	Stable isotope and fatty acid markers in plankton assemblages of a saline lake: seasonal trends and future scenario. Journal of Plankton Research, 2015, 37, 584-595.	1.8	11
75	Could offspring predation offset the successful reproduction of the arctic copepod Calanus hyperboreus under reduced sea-ice cover conditions?. Progress in Oceanography, 2019, 170, 107-118.	3.2	11
76	Gasâ€"liquid chromatographic method for the determination of marine was esters according to the degree of unsaturation. Journal of Chromatography A, 1990, 513, 327-332.	3.7	10
77	Wax ester composition of the dominant calanoid copepods of the Greenland Sea/Fram Strait region. Polar Research, 1991, 10, 479-485.	1.6	9
78	Body growth, mitochondrial enzymatic capacities and aspects of the antioxidant system and redox balance under calorie restriction in young turbot (Scophthalmus maximus, L.). Aquaculture Research, 2007, 38, 467-477.	1.8	9
79	Lipid turnover reflects life-cycle strategies of small-sized Arctic copepods. Journal of Plankton Research, 2016, , .	1.8	8
80	Lipid and fatty acid/alcohol compositions of the subarctic copepods Neocalanus cristatus and Eucalanus bungii from various depths in the Oyashio region, western North Pacific. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2016, 198, 57-65.	1.6	8
81	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.	2.5	8
82	Lipid storage consumption and feeding ability of Calanus glacialis Jaschnov, 1955 males. Journal of Experimental Marine Biology and Ecology, 2019, 521, 151226.	1.5	7
83	Impact of ocean acidification and warming on mitochondrial enzymes and membrane lipids in two Gadoid species. Polar Biology, 2020, 43, 1109-1120.	1.2	7
84	Assimilation and turnover rates of lipid compounds in dominant Antarctic copepods fed with ¹³ C-enriched diatoms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190647.	4.0	7
85	Exceptional lipid storage mode of the copepod Boeckella poopoensis in a pampean salt lake, Argentina. Aquatic Biology, 2012, 15, 275-281.	1.4	5
86	Fatty acid composition of wild<i>Odontesthes bonariensis</i>(Valenciennes 1835) larvae: implications on lipid metabolism and trophic relationships. Journal of Applied Ichthyology, 2015, 31, 752-755.	0.7	5
87	Living on Cold Substrata: New Insights and Approaches in the Study of Microphytobenthos Ecophysiology and Ecology in Kongsfjorden. Advances in Polar Ecology, 2019, , 303-330.	1.3	5
88	Wax ester composition of the dominant calanoid copepods of the Greenland Sea/Fram Strait region. Polar Research, 1991, 10, 479-485.	1.6	5
89	Fatty acid compositions associated with high-light tolerance in the intertidal rhodophytes Mastocarpus stellatus and Chondrus crispus. Helgoland Marine Research, 2017, 71, .	1.3	4
90	Year-round population dynamics of Limacina spp. early stages in a high-Arctic fjord (Adventfjorden,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	2

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91	The high polyunsaturation in phospholipids of marine zooplankton. Chemistry and Physics of Lipids, 2007, 149, S21-S22.	3.2	0
92	Ambient media affect thermal response of cellular energy budget. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S173.	1.8	0
93	To Regulate or Not to Regulate: Assimilation of Dietary Fatty Acids in the Temperate Copepod Temora longicornis. Frontiers in Marine Science, 2022, 9, .	2.5	0