

# Dominik Martin-Creuzburg

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

3,066  
citations

147801

31  
h-index

175258

52  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2235  
citing authors

#	ARTICLE	IF	CITATIONS
1	Absence of sterols constrains carbon transfer between cyanobacteria and a freshwater herbivore () Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	258
2	Nutritional constraints at the cyanobacteriaâ€” <i>Daphnia magna</i> interface: The role of sterols. <i>Limnology and Oceanography</i> , 2008, 53, 456-468.	3.1	184
3	Allocation of essential lipids in <i>Daphnia magna</i> during exposure to poor food quality. <i>Functional Ecology</i> , 2007, 21, 738-747.	3.6	132
4	Life history consequences of sterol availability in the aquatic keystone species <i>Daphnia</i> . <i>Oecologia</i> , 2005, 144, 362-372.	2.0	116
5	Colimitation of a freshwater herbivore by sterols and polyunsaturated fatty acids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1805-1814.	2.6	114
6	Differing <i>Daphnia magna</i> assimilation efficiencies for terrestrial, bacterial, and algal carbon and fatty acids. <i>Ecology</i> , 2014, 95, 563-576.	3.2	100
7	Trophic upgrading of autotrophic picoplankton by the heterotrophic nanoflagellate <i>Paraphysomonas</i> sp.. <i>Limnology and Oceanography</i> , 2006, 51, 1699-1707.	3.1	98
8	Good food versus bad food: the role of sterols and polyunsaturated fatty acids in determining growth and reproduction of <i>Daphnia magna</i> . <i>Aquatic Ecology</i> , 2009, 43, 943-950.	1.5	90
9	Ecological significance of sterols in aquatic food webs. , 2009, , 43-64.		90
10	Multiple resource limitation theory applied to herbivorous consumers: Liebigâ€™s minimum rule vs. interactive coâ€”limitation. <i>Ecology Letters</i> , 2012, 15, 142-150.	6.4	88
11	Interactions between limiting nutrients: Consequences for somatic and population growth of <i>Daphnia magna</i> . <i>Limnology and Oceanography</i> , 2010, 55, 2597-2607.	3.1	80
12	Ecdysteroid levels in <i>Daphnia magna</i> during a molt cycle: Determination by radioimmunoassay (RIA) and liquid chromatographyâ€”mass spectrometry (LCâ€”MS). <i>General and Comparative Endocrinology</i> , 2007, 151, 66-71.	1.8	79
13	Food quality of heterotrophic bacteria for <i>Daphnia magna</i> : evidence for a limitation by sterols. <i>FEMS Microbiology Ecology</i> , 2011, 76, 592-601.	2.7	77
14	Impact of 10 Dietary Sterols on Growth and Reproduction of <i>Daphnia galeata</i> . <i>Journal of Chemical Ecology</i> , 2004, 30, 483-500.	1.8	71
15	Cross-ecosystem fluxes: Export of polyunsaturated fatty acids from aquatic to terrestrial ecosystems via emerging insects. <i>Science of the Total Environment</i> , 2017, 577, 174-182.	8.0	71
16	Sterols of freshwater microalgae: potential implications for zooplankton nutrition. <i>Journal of Plankton Research</i> , 2016, 38, 865-877.	1.8	66
17	Single dietary amino acids control resting egg production and affect population growth of a key freshwater herbivore. <i>Oecologia</i> , 2011, 167, 981-989.	2.0	63
18	Stable isotopes of fatty acids: current and future perspectives for advancing trophic ecology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190641.	4.0	61

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19	Dietary lipid quality affects temperature-mediated reaction norms of a freshwater key herbivore. <i>Oecologia</i> , 2012, 168, 901-912.	2.0	59
20	Simultaneous Effects of Light Intensity and Phosphorus Supply on the Sterol Content of Phytoplankton. <i>PLoS ONE</i> , 2010, 5, e15828.	2.5	54
21	Trophic upgrading of picocyanobacterial carbon by ciliates for nutrition of <i>Daphnia magna</i> . <i>Aquatic Microbial Ecology</i> , 2005, 41, 271-280.	1.8	54
22	The potential of dietary polyunsaturated fatty acids to modulate eicosanoid synthesis and reproduction in <i>Daphnia magna</i> : A gene expression approach. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2012, 162, 449-454.	1.8	51
23	Comparison of sterol and fatty acid profiles of chytrids and their hosts reveals trophic upgrading of nutritionally inadequate phytoplankton by fungal parasites. <i>Environmental Microbiology</i> , 2019, 21, 949-958.	3.8	48
24	Biochemical nutrient requirements of the rotifer <i>Brachionus calyciflorus</i> : co-limitation by sterols and amino acids. <i>Functional Ecology</i> , 2012, 26, 1135-1143.	3.6	45
25	Oligotrophication of a large, deep lake alters food quantity and quality constraints at the primary producer-consumer interface. <i>Oikos</i> , 2012, 121, 1702-1712.	2.7	43
26	Dietary supply with polyunsaturated fatty acids and resulting maternal effects influence host-parasite interactions. <i>BMC Ecology</i> , 2013, 13, 41.	3.0	43
27	Thresholds for Sterol-Limited Growth of <i>Daphnia magna</i> : A Comparative Approach Using 10 Different Sterols. <i>Journal of Chemical Ecology</i> , 2014, 40, 1039-1050.	1.8	39
28	Effects of adult nutrition on female reproduction in a fruit-feeding butterfly: The role of fruit decay and dietary lipids. <i>Journal of Insect Physiology</i> , 2007, 53, 964-973.	2.0	37
29	Linking primary producer diversity and food quality effects on herbivores: A biochemical perspective. <i>Scientific Reports</i> , 2017, 7, 11035.	3.3	37
30	Seasonal changes in the accumulation of polyunsaturated fatty acids in zooplankton. <i>Journal of Plankton Research</i> , 2013, 35, 121-134.	1.8	36
31	Food quality of mixed bacteria-algae diets for <i>Daphnia magna</i> . <i>Hydrobiologia</i> , 2013, 715, 63-76.	2.0	36
32	Knowing the Enemy: Inducible Defences in Freshwater Zooplankton. <i>Diversity</i> , 2020, 12, 147.	1.7	35
33	Tracking Diet Preferences of Bats Using Stable Isotope and Fatty Acid Signatures of Faeces. <i>PLoS ONE</i> , 2013, 8, e83452.	2.5	34
34	Climate change shifts the timing of nutritional flux from aquatic insects. <i>Current Biology</i> , 2022, 32, 1342-1349.e3.	3.9	33
35	Phytoplankton sterol contents vary with temperature, phosphorus and silicate supply: a study on three freshwater species. <i>European Journal of Phycology</i> , 2012, 47, 138-145.	2.0	32
36	Flux of the biogenic volatiles isoprene and dimethyl sulfide from an oligotrophic lake. <i>Scientific Reports</i> , 2018, 8, 630.	3.3	32

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37	Role of essential lipids in determining food quality for the invasive freshwater clam <i>Corbicula fluminea</i> . <i>Journal of the North American Benthological Society</i> , 2011, 30, 653-664.	3.1	29
38	Population genetic dynamics of an invasion reconstructed from the sediment egg bank. <i>Molecular Ecology</i> , 2015, 24, 4074-4093.	3.9	26
39	Absence of sterols constrains food quality of cyanobacteria for an invasive freshwater bivalve. <i>Oecologia</i> , 2012, 170, 57-64.	2.0	24
40	Temperature-induced changes in body lipid composition affect vulnerability to oxidative stress in <i>Daphnia magna</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019, 232, 101-107.	1.6	22
41	Supplementation with Sterols Improves Food Quality of a Ciliate for <i>Daphnia magna</i> . <i>Protist</i> , 2006, 157, 477-486.	1.5	21
42	Food quantity–quality co–limitation: Interactive effects of dietary carbon and essential lipid supply on population growth of a freshwater rotifer. <i>Freshwater Biology</i> , 2019, 64, 903-912.	2.4	21
43	A comparative analysis of the fatty acid composition of sexual and asexual eggs of <i>Daphnia magna</i> and its plasticity as a function of food quality. <i>Journal of Plankton Research</i> , 2015, 37, 752-763.	1.8	19
44	Fatty acid composition of the heterotrophic nanoflagellate <i>Paraphysomonas</i> sp.: influence of diet and de novo biosynthesis. <i>Aquatic Biology</i> , 2010, 9, 107-112.	1.4	19
45	Phytoplankton food quality effects on gammarids: benthic–pelagic coupling mediated by an invasive freshwater clam. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 198-207.	1.4	18
46	Combined effects of dietary polyunsaturated fatty acids and parasite exposure on eicosanoid-related gene expression in an invertebrate model. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2016, 201, 115-123.	1.8	18
47	Hydrogen isotopes ( $\delta^2\text{H}$ ) of polyunsaturated fatty acids track bioconversion by zooplankton. <i>Functional Ecology</i> , 2022, 36, 538-549.	3.6	17
48	Dietary lipid quality mediates salt tolerance of a freshwater keystone herbivore. <i>Science of the Total Environment</i> , 2021, 769, 144657.	8.0	15
49	Use of Fatty Acids From Aquatic Prey Varies With Foraging Strategy. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	15
50	Dietary availability determines metabolic conversion of long-chain polyunsaturated fatty acids in spiders: a dual compound-specific stable isotope approach. <i>Oikos</i> , 2022, 2022, .	2.7	15
51	A dietary polyunsaturated fatty acid improves consumer performance during challenge with an opportunistic bacterial pathogen. <i>FEMS Microbiology Ecology</i> , 2014, 90, n/a-n/a.	2.7	14
52	Dietary supply with essential lipids affects growth and survival of the amphipod <i>Gammarus roeselii</i> . <i>Limnologica</i> , 2014, 46, 109-115.	1.5	14
53	Toward Disentangling the Multiple Nutritional Constraints Imposed by Planktothrix: The Significance of Harmful Secondary Metabolites and Sterol Limitation. <i>Frontiers in Microbiology</i> , 2020, 11, 586120.	3.5	14
54	Interdisciplinary Reservoir Management–A Tool for Sustainable Water Resources Management. <i>Sustainability</i> , 2021, 13, 4498.	3.2	13

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55	Dietary polyunsaturated fatty acid supply improves <i>Daphnia</i> performance at fluctuating temperatures, simulating diel vertical migration. <i>Freshwater Biology</i> , 2019, 64, 1859-1866.	2.4	12
56	Reversed evolution of grazer resistance to cyanobacteria. <i>Nature Communications</i> , 2021, 12, 1945.	12.8	12
57	Compound-specific $\delta^{13}C$ analyses reveal sterol metabolic constraints in an aquatic invertebrate. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1789-1794.	1.5	11
58	Fitness response variation within and among consumer species can be co-mediated by food quantity and biochemical quality. <i>Scientific Reports</i> , 2019, 9, 16126.	3.3	11
59	Cross-Ecosystem Linkages: Transfer of Polyunsaturated Fatty Acids From Streams to Riparian Spiders via Emergent Insects. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	11
60	Taxonomic composition and lake bathymetry influence fatty acid export via emergent insects. <i>Freshwater Biology</i> , 2021, 66, 2199-2209.	2.4	11
61	Fatty acid signatures of stomach contents reflect inter- and intra-annual changes in diet of a small pelagic seabird, the Thin-billed prion <i>Pachyptila belcheri</i> . <i>Marine Biology</i> , 2011, 158, 1805-1813.	1.5	10
62	Sex-Specific Differences in Essential Lipid Requirements of <i>Daphnia magna</i> . <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	2.2	9
63	Impact of temperature and nutrient dynamics on growth and survival of <i>Corbicula fluminea</i> : A field study in oligotrophic Lake Constance. <i>International Review of Hydrobiology</i> , 2017, 102, 15-28.	0.9	8
64	Phospholipid-bound eicosapentaenoic acid (EPA) supports higher fecundity than free EPA in <i>Daphnia magna</i> . <i>Journal of Plankton Research</i> , 2017, 39, 843-848.	1.8	8
65	Inter- and intraspecific differences in rotifer fatty acid composition during acclimation to low-quality food. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190644.	4.0	8
66	<i>Daphnia</i> 's Adaptive Molecular Responses to the Cyanobacterial Neurotoxin Anatoxin-a1 Are Maternally Transferred. <i>Toxins</i> , 2021, 13, 326.	3.4	8
67	Fatty acid composition of <i>Turbatrix acetivivax</i> and its use in feeding regimes of <i>Coregonus maraena</i> (Bloch, 1779): is it really a suitable alternative to <i>Artemia</i> nauplii?. <i>Journal of Applied Ichthyology</i> , 2015, 31, 343-348.	0.7	7
68	Differences in the amino acid content of four green algae and their impact on the reproductive mode of <i>Daphnia pulex</i> . <i>Fundamental and Applied Limnology</i> , 2012, 181, 327-336.	0.7	6
69	Morphological defences and defence cost trade-offs in <i>Daphnia</i> in response to two co-occurring invertebrate predators. <i>Freshwater Biology</i> , 2022, 67, 883-892.	2.4	6
70	Resilience to changes in lake trophic state: Nutrient allocation into <i>Daphnia</i> resting eggs. <i>Ecology and Evolution</i> , 2019, 9, 12813-12825.	1.9	5
71	A sterol-mediated gleaner-opportunist trade-off underlies the evolution of grazer resistance to cyanobacteria. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220178.	2.6	3
72	Nutritional Constraints on Zooplankton. , 2021, , .		0