Dominik Martin-Creuzburg

List of Publications by Year
in descending order

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	Dietary availability determines metabolic conversion of longâ€chain polyunsaturated fatty acids in spiders: a dual compoundâ€specific stable isotope approach. Oikos, 2022, 2022, .	2.7	15
2	Hydrogen isotopes (Î´²H) of polyunsaturated fatty acids track bioconversion by zooplankton. Functional Ecology, 2022, 36, 538-549.	3.6	17
3	Morphological defences and defenceâ€“cost tradeâ€offs in Daphnia in response to two coâ€occurring invertebrate predators. Freshwater Biology, 2022, 67, 883-892.	2.4	6
4	Climate change shifts the timing of nutritional flux from aquatic insects. Current Biology, 2022, 32, 1342-1349.e3.	3.9	33
5	A sterol-mediated gleanerâ€“opportunist trade-off underlies the evolution of grazer resistance to cyanobacteria. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20220178.	2.6	3
6	Reversed evolution of grazer resistance to cyanobacteria. Nature Communications, 2021, 12, 1945.	12.8	12
7	Daphniaâ€™s Adaptive Molecular Responses to the Cyanobacterial Neurotoxin Anatoxin-Î± Are Maternally Transferred. Toxins, 2021, 13, 326.	3.4	8
8	Interdisciplinary Reservoir Managementâ€”A Tool for Sustainable Water Resources Management. Sustainability, 2021, 13, 4498.	3.2	13
9	Dietary lipid quality mediates salt tolerance of a freshwater keystone herbivore. Science of the Total Environment, 2021, 769, 144657.	8.0	15
10	Cross-Ecosystem Linkages: Transfer of Polyunsaturated Fatty Acids From Streams to Riparian Spiders via Emergent Insects. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	11
11	Use of Fatty Acids From Aquatic Prey Varies With Foraging Strategy. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	15
12	Taxonomic composition and lake bathymetry influence fatty acid export via emergent insects. Freshwater Biology, 2021, 66, 2199-2209.	2.4	11
13	Nutritional Constraints on Zooplankton. , 2021, , .		0
14	Toward Disentangling the Multiple Nutritional Constraints Imposed by Planktothrix: The Significance of Harmful Secondary Metabolites and Sterol Limitation. Frontiers in Microbiology, 2020, 11, 586120.	3.5	14
15	Inter- and intraspecific differences in rotifer fatty acid composition during acclimation to low-quality food. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190644.	4.0	8
16	Stable isotopes of fatty acids: current and future perspectives for advancing trophic ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190641.	4.0	61
17	Knowing the Enemy: Inducible Defences in Freshwater Zooplankton. Diversity, 2020, 12, 147.	1.7	35
18	Dietary polyunsaturated fatty acid supply improves Daphnia performance at fluctuating temperatures, simulating diel vertical migration. Freshwater Biology, 2019, 64, 1859-1866.	2.4	12

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19	Resilience to changes in lake trophic state: Nutrient allocation into Daphnia resting eggs. Ecology and Evolution, 2019, 9, 12813-12825.	1.9	5
20	Food quantityâ€“quality coâ€limitation: Interactive effects of dietary carbon and essential lipid supply on population growth of a freshwater rotifer. Freshwater Biology, 2019, 64, 903-912.	2.4	21
21	Temperature-induced changes in body lipid composition affect vulnerability to oxidative stress in Daphnia magna. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2019, 232, 101-107.	1.6	22
22	Fitness response variation within and among consumer species can be co-mediated by food quantity and biochemical quality. Scientific Reports, 2019, 9, 16126.	3.3	11
23	Comparison of sterol and fatty acid profiles of chytrids and their hosts reveals trophic upgrading of nutritionally inadequate phytoplankton by fungal parasites. Environmental Microbiology, 2019, 21, 949-958.	3.8	48
24	Flux of the biogenic volatiles isoprene and dimethyl sulfide from an oligotrophic lake. Scientific Reports, 2018, 8, 630.	3.3	32
25	Sex-Specific Differences in Essential Lipid Requirements of Daphnia magna. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	9
26	Impact of temperature and nutrient dynamics on growth and survival of Corbicula fluminea : A field study in oligotrophic Lake Constance. International Review of Hydrobiology, 2017, 102, 15-28.	0.9	8
27	Linking primary producer diversity and food quality effects on herbivores: A biochemical perspective. Scientific Reports, 2017, 7, 11035.	3.3	37
28	Phospholipid-bound eicosapentaenoic acid (EPA) supports higher fecundity than free EPA in Daphnia magna. Journal of Plankton Research, 2017, 39, 843-848.	1.8	8
29	Cross-ecosystem fluxes: Export of polyunsaturated fatty acids from aquatic to terrestrial ecosystems via emerging insects. Science of the Total Environment, 2017, 577, 174-182.	8.0	71
30	Combined effects of dietary polyunsaturated fatty acids and parasite exposure on eicosanoid-related gene expression in an invertebrate model. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 201, 115-123.	1.8	18
31	Sterols of freshwater microalgae: potential implications for zooplankton nutrition. Journal of Plankton Research, 2016, 38, 865-877.	1.8	66
32	Compoundâ€specific Î´¹³C analyses reveal sterol metabolic constraints in an aquatic invertebrate. Rapid Communications in Mass Spectrometry, 2015, 29, 1789-1794.	1.5	11
33	Population genetic dynamics of an invasion reconstructed from the sediment egg bank. Molecular Ecology, 2015, 24, 4074-4093.	3.9	26
34	Fatty acid composition of Turbatrix aceti and its use in feeding regimes of Coregonus maraena (Bloch, 1779): is it really a suitable alternative to Artemia nauplii?. Journal of Applied Ichthyology, 2015, 31, 343-348.	0.7	7
35	A comparative analysis of the fatty acid composition of sexual and asexual eggs ofDaphnia magnaand its plasticity as a function of food quality. Journal of Plankton Research, 2015, 37, 752-763.	1.8	19
36	Thresholds for Sterol-Limited Growth of Daphnia magna: A Comparative Approach Using 10 Different Sterols. Journal of Chemical Ecology, 2014, 40, 1039-1050.	1.8	39

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37	A dietary polyunsaturated fatty acid improves consumer performance during challenge with an opportunistic bacterial pathogen. FEMS Microbiology Ecology, 2014, 90, n/a-n/a.	2.7	14
38	Dietary supply with essential lipids affects growth and survival of the amphipod Gammarus roeselii. Limnologica, 2014, 46, 109-115.	1.5	14
39	Differing Daphnia magna assimilation efficiencies for terrestrial, bacterial, and algal carbon and fatty acids. Ecology, 2014, 95, 563-576.	3.2	100
40	Seasonal changes in the accumulation of polyunsaturated fatty acids in zooplankton. Journal of Plankton Research, 2013, 35, 121-134.	1.8	36
41	Food quality of mixed bacteriaâ€“algae diets for Daphnia magna. Hydrobiologia, 2013, 715, 63-76.	2.0	36
42	Dietary supply with polyunsaturated fatty acids and resulting maternal effects influence host â€“ parasite interactions. BMC Ecology, 2013, 13, 41.	3.0	43
43	Phytoplankton food quality effects on gammarids: benthicâ€“pelagic coupling mediated by an invasive freshwater clam. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 198-207.	1.4	18
44	Tracking Diet Preferences of Bats Using Stable Isotope and Fatty Acid Signatures of Faeces. PLoS ONE, 2013, 8, e83452.	2.5	34
45	Differences in the amino acid content of four green algae and their impact on the reproductive mode of Daphnia pulex. Fundamental and Applied Limnology, 2012, 181, 327-336.	0.7	6
46	Biochemical nutrient requirements of the rotifer <scp>B</scp>rachionus calyciflorus: coâ€limitation by sterols and amino acids. Functional Ecology, 2012, 26, 1135-1143.	3.6	45
47	Absence of sterols constrains food quality of cyanobacteria for an invasive freshwater bivalve. Oecologia, 2012, 170, 57-64.	2.0	24
48	Phytoplankton sterol contents vary with temperature, phosphorus and silicate supply: a study on three freshwater species. European Journal of Phycology, 2012, 47, 138-145.	2.0	32
49	Dietary lipid quality affects temperature-mediated reaction norms of a freshwater key herbivore. Oecologia, 2012, 168, 901-912.	2.0	59
50	Multiple resource limitation theory applied to herbivorous consumers: Liebigâ€™s minimum rule vs. interactive coâ€limitation. Ecology Letters, 2012, 15, 142-150.	6.4	88
51	The potential of dietary polyunsaturated fatty acids to modulate eicosanoid synthesis and reproduction in Daphnia magna: A gene expression approach. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 162, 449-454.	1.8	51
52	Oligotrophication of a large, deep lake alters food quantity and quality constraints at the primary producerâ€“consumer interface. Oikos, 2012, 121, 1702-1712.	2.7	43
53	Role of essential lipids in determining food quality for the invasive freshwater clam Corbicula fluminea. Journal of the North American Benthological Society, 2011, 30, 653-664.	3.1	29
54	Food quality of heterotrophic bacteria for Daphnia magna: evidence for a limitation by sterols. FEMS Microbiology Ecology, 2011, 76, 592-601.	2.7	77

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55	Single dietary amino acids control resting egg production and affect population growth of a key freshwater herbivore. Oecologia, 2011, 167, 981-989.	2.0	63
56	Fatty acid signatures of stomach contents reflect inter- and intra-annual changes in diet of a small pelagic seabird, the Thin-billed prion Pachyptila belcheri. Marine Biology, 2011, 158, 1805-1813.	1.5	10
57	Interactions between limiting nutrients: Consequences for somatic and population growth of Daphnia magna. Limnology and Oceanography, 2010, 55, 2597-2607.	3.1	80
58	Simultaneous Effects of Light Intensity and Phosphorus Supply on the Sterol Content of Phytoplankton. PLoS ONE, 2010, 5, e15828.	2.5	54
59	Fatty acid composition of the heterotrophic nanoflagellate Paraphysomonas sp.: influence of diet and de novo biosynthesis. Aquatic Biology, 2010, 9, 107-112.	1.4	19
60	Colimitation of a freshwater herbivore by sterols and polyunsaturated fatty acids. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1805-1814.	2.6	114
61	Good food versus bad food: the role of sterols and polyunsaturated fatty acids in determining growth and reproduction of Daphnia magna. Aquatic Ecology, 2009, 43, 943-950.	1.5	90
62	Ecological significance of sterols in aquatic food webs. , 2009, , 43-64.		90
63	Nutritional constraints at the cyanobacteriaâ€"Daphnia magna interface: The role of sterols. Limnology and Oceanography, 2008, 53, 456-468.	3.1	184
64	Allocation of essential lipids in Daphnia magna during exposure to poor food quality. Functional Ecology, 2007, 21, 738-747.	3.6	132
65	Ecdysteroid levels in Daphnia magna during a molt cycle: Determination by radioimmunoassay (RIA) and liquid chromatographyâ€"mass spectrometry (LCâ€"MS). General and Comparative Endocrinology, 2007, 151, 66-71.	1.8	79
66	Effects of adult nutrition on female reproduction in a fruit-feeding butterfly: The role of fruit decay and dietary lipids. Journal of Insect Physiology, 2007, 53, 964-973.	2.0	37
67	Supplementation with Sterols Improves Food Quality of a Ciliate for Daphnia magna. Protist, 2006, 157, 477-486.	1.5	21
68	Trophic upgrading of autotrophic picoplankton by the heterotrophic nanoflagellate Paraphysomonas sp.. Limnology and Oceanography, 2006, 51, 1699-1707.	3.1	98
69	Life history consequences of sterol availability in the aquatic keystone species Daphnia. Oecologia, 2005, 144, 362-372.	2.0	116
70	Trophic upgrading of picocyanobacterial carbon by ciliates for nutrition of Daphnia magna. Aquatic Microbial Ecology, 2005, 41, 271-280.	1.8	54
71	Impact of 10 Dietary Sterols on Growth and Reproduction of Daphnia galeata. Journal of Chemical Ecology, 2004, 30, 483-500.	1.8	71
72	Absence of sterols constrains carbon transfer between cyanobacteria and a freshwater herbivore () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	258