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■ Address

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■ Scientific career

since 11.2018	Group leader Experimental Aquatic Ecology, Helmholtz Centre for Environmental Research (UFZ)
10.2017 – 10.2018	Group leader, Institute for Zoology, University of Cologne
04.2015 – 09.2017	Substitute for a Chair in Zoology and provisional head of the Institute for Cell Biology, University of Duesseldorf
01.2015	Habilitation (<i>venia legendi</i>) in Zoology, Univ. of Cologne
10.2006 – 03.2015	Scientific Assistant (junior group leader), Zoological Institute, Workgroup Aquatic Chemical Ecology, University of Cologne
07.2005 – 09.2006	Post-doc, Max-Planck-Institute for Limnology, Department Physiological Ecology, Plön
11.2001 – 06.2005	PhD, University of Konstanz; dissertation entitled “Food quality and food choice in freshwater gastropods: Field and laboratory investigations on a key component of littoral food webs “, rated <i>summa cum laude (excellent)</i> , Oct 21 st , 2005
01.2001 – 10.2001	Diploma thesis entitled “Colony-induction in <i>Scenedesmus</i> by <i>Daphnia</i> ”; rated <i>excellent</i>
10.1998 – 12.2000	Advanced Studies in Biology (Diploma), University of Konstanz
10.1996 – 09.1998	Basic studies in Biology (Vordiplom), Univ. of Tuebingen

■ Member of scientific societies

- Association for the Sciences of Limnology and Oceanography (**ASLO**)
- International Society for Limnology (**SIL**)
- German Zoological Society (**DZG**)
- German Limnological Society (**DGL**)


■ List of Publications (ORCID: 0000-0002-5927-8977)

89. Julia Zill, Nuria Perujo, **Patrick Fink**, Ulf Mallast, Christian Siebert, Markus Weitere (2024) Contribution of groundwater-borne nutrients to eutrophication potential and the share of benthic algae in a large lowland river. *Science of the Total Environment* 951, article 175617.
88. Ghulam Abbas, Seifeddine Jomaa, Patrick Fink, Arlena Brosinsky, Karolina M. Nowak, Steffen Kümmel, Uwe-Karsten Schkade, Michael Rode (2024) Investigating Sediment Sources Using Compound-Specific Stable Isotopes and Conventional Fingerprinting Methods in an Agricultural Loess Catchment. *Catena* (*in press*).
87. Kristie, Rigby, Elisa Berdalet, Carina Berglund, Fabian Roger, Michael Steinke, Mahasweta Saha, Wiebke Grebner, Emily Brown, Uwe John, Lars Gamfeldt, **Patrick Fink**, Fredrick Berggren, Erik Selander (2024) Direct and indirect effects of copepod grazers on community structure. *Journal of Plankton Research* (*in press*).
86. Alexandra Schlenker, Mario Brauns, **Patrick Fink**, Markus Weitere (2024) Beyond biomass: Resource effects on primary production and consumer nutrient assimilation in streams. *Freshwater Biology* (*in press*). doi: 10.1111/fwb.14310.
85. Fabian G. Weichert, Werner Brack, Mario Brauns, **Patrick Fink**, Sarah Johann, Martin Krauss, Henner Hollert (2024) Dataset on Target Chemical and Bioassay Analysis - Exploring Contaminants of Emerging Concern in a Low Mountain River of Central Germany. *Data in Brief* (*in press*). doi: 10.1016/j.dib.2024.110510.
84. Matthias Pilecky, Samuel K. Kämmer, Katharina Winter, Rada Ptacnikova, Travis B. Meador, Leonard I. Wassenaar, **Patrick Fink**, and Martin J. Kainz (2024) Assessing zooplankton foraging depths using fatty acid-specific stable isotopes. *Oecologia* (*in press*).
83. Alexandra Schlenker, Mario Brauns, **Patrick Fink**, Armin W. Lorenz, Markus Weitere (2024) Long-term recovery of benthic food webs after stream restoration. *Science of the Total Environment* 923: 171499.
82. Jessica Titocci and **Patrick Fink** (2023) Disturbance alters phytoplankton functional traits and consequently drives changes in zooplankton life history traits and lipid composition. *Hydrobiologia* 851: 161–180.
81. Adrian A. Bischoff, Melanie Kubitz, Laura Ballesteros-Redondo, Marcus Stüeken, Tobias Rapp, **Patrick Fink**, Wilhelm Hagen and Harry W. Palm (2023) Dynamics of fatty acids in pikeperch (*Sander lucioperca*) larvae and juveniles during early rearing and weaning in a commercial RAS – implications for dietary refinement. *Fishes* 8(9): 444.
80. Alessandra Iannino, **Patrick Fink***, Alexander Tim Ludwig Vossage, and Markus Weitere (2023) Resource-dependent foraging behaviour of grazers enhances effects of nutrient enrichment on algal biomass. *Oecologia* 201: 479 - 488.
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79. Jens Boyen, Alberto Ribes-Navarro, Naoki Kabeya, Óscar Monroig, Annelien Rigaux, **Patrick Fink**, Pascal Halblützel, Juan Carlos Navarro, and Marleen De Troch (2023) Functional characterization reveals a diverse array of metazoan fatty acid biosynthesis genes. *Molecular Ecology* 32 (4): 970-982.
78. Maja Ilić, Susanne Walden, Sara K. Hammerstein, Maria Stockenreiter, Herwig Stibor, and **Patrick Fink** (2023) Pigment and fluorescence proxies to estimate functional diversity of phytoplankton communities. *Fundamental and Applied Limnology* 196 (3-4): 229-249.
77. Jens Boenigk, Daniela Beisser, Luise Franke, Lea Klar, Maja Ilić, and **Patrick Fink** (2023) Differences in pigment composition and concentration between phototrophic, mixotrophic and heterotrophic Chrysophyceae. *Fottea* 23 (2): 223-234.
76. Matthias Pilecky, **Patrick Fink** Samuel K. Kämmer, Matthias Schott, Martin Zehl, and Martin J. Kainz (2022) Mass spectrometry imaging reveals the spatial

- distribution of essential lipids in *Daphnia magna* – potential implications for trophic ecology. *Inland Waters* 13:1, 111-120.
75. Mahasweta Saha and **Patrick Fink** (2022) Algal volatiles – the overlooked chemical language of aquatic primary producers. *Biological Reviews* 97 (6): 2162-2173.
 74. Jessica Titocci and **Patrick Fink** (2022) Food quality impacts on reproductive traits, development and fatty acid composition of the freshwater calanoid copepod *Eudiaptomus* sp. *Journal of Plankton Research* 44 (4): 528–541.
 73. Adrian A. Bischoff, Melanie Kubitz, Claudia M. Wranik, Laura Ballesteros-Redondo, **Patrick Fink**, and Harry W. Palm (2022) The effect of *Brachionus calyciflorus* (Rotifera) on larviculture and fatty acid composition of pikeperch (*Sander lucioperca* (L.)) cultured under pseudo-green water conditions. *Sustainability* 14 (11): 6607.
 72. Christina C. Roggatz, Mahasweta Saha, Soléne Blanchard, Paula Schirmmayer, **Patrick Fink**, Francois Verheggen, and Jörg D. Hardege (2022) Becoming nose-blind - Climate change impacts on chemical communication. *Global Change Biology* 28 (15): 4495-4505.
 71. Valerio Zupo, Valerio Mazzella, **Patrick Fink**, Mahasweta Saha, Ylenia Carotenuto and Mirko Mutalipassi (2022) Copepods vs. Salmon – Environmental Treats for Crustaceans or Possible Eco-Sustainable Solutions? Chapter 14 in: *Crustaceans: Endocrinology, Biology and Aquaculture* (1st ed.). CRC Press, doi: 10.1201/9780367853426-17.
 70. Mirko Mutalipassi, Valerio Mazzella, Matthias Schott, **Patrick Fink**, Francesca Glaviano, Lucia Porzio, Maurizio Lorenti, Maria-Cristina Buia, Eric VonElert, and Valerio Zupo (2022) Ocean acidification affects volatile infochemicals production and perception in fauna and flora associated with *Posidonia oceanica* (L.) Delile. *Frontiers in Marine Science* 9: 809702.
 69. Jessica Titocci, Melanie Bon, and **Patrick Fink** (2022) Morpho-functional traits reveal differences in size fractionated phytoplankton communities but do not significantly affect zooplankton grazing. *Microorganisms* 10 (1): 182.
 68. Markus Schmitz, Björn Deutschmann, Nele Markert, Thomas Backhaus, Werner Brack, Mario Brauns, Markus Brinkmann, Thomas-Benjamin Seiler, **Patrick Fink**, Song Tang, Shawn Beitel, Jon A. Doering, Markus Hecker, Ying Shao, Tobias Schulze, Markus Weitere, Romy Wild, Mirna Velki, Henner Hollert (2022) Demonstration of an aggregated biomarker response approach to assess the impact of point and diffuse contaminant sources in feral fish in a small river case study. *Science of the Total Environment* 804: 150020.
 67. Alessandra Iannino, **Patrick Fink**, and Markus Weitere (2021) Feedback between bottom-up and top-down control of stream biofilm mediated through eutrophication effects on grazer growth. *Scientific Reports* 11: 21621.
 66. Alessandra Iannino, Alexander T. L. Vosshege, Markus Weitere, and **Patrick Fink** (2021) Effects of phosphorus enrichment on the spatial heterogeneity of stream periphyton under uneven light conditions. *Hydrobiologia* 848: 2721–2729.
 65. Marco Konschak, Jochen P. Zubrod, Patrick Baudy, **Patrick Fink**, Sebastian Pietz, Tomás S. Duque A, Nikita Bakanov, Ralf Schulz, and Mirco Bundschuh (2021) Mixture effects of a fungicide and an antibiotic: assessment and prediction using a decomposer-detritivore system. *Aquatic Toxicology* 232: 105762.
 64. Marco Konschak, Jochen P. Zubrod, Patrick Baudy, **Patrick Fink**, Kilian G. J. Kenngott, Dominic Englert, Nina Röder, Collins Ogbeide, Ralf Schulz, and Mirco Bundschuh (2021) Chronic effects of the strobilurin fungicide azoxystrobin in the leaf shredder *Gammarus fossarum* (Crustacea; Amphipoda) via two effect pathways. *Ecotoxicology and Environmental Safety* 209: 111848.
 63. Maja Ilić, Mathilde Cordellier and **Patrick Fink** (2021) Intrapopulation variability in a functional trait: susceptibility of *Daphnia* to limitation by dietary fatty acids. *Freshwater Biology* 66 (1): 130-141.
 62. René Gergs, Eike Sünger, Lisa Burmann, Jochen P. Zubrod, Ralf Schulz and **Patrick Fink** (2021) Compound-specific $\delta^{15}\text{N}$ analyses of amino acids for trophic

- level from indigenous and invasive freshwater amphipods. *International Review of Hydrobiology* 106: 41-47.
61. Alessandra Iannino, Alexander Tim Ludwig Vosshage, Markus Weitere and **Patrick Fink** (2020) Taxonomic shift over a phosphorus gradient affects the stoichiometry and fatty acid composition of stream periphyton. *Journal of Phycology* 56: 1687-1695.
 60. Lydie I.E. Couturier, Loïc N. Michel, Teresa Amaro, Suzanne M. Budge, Elisabete da Costa, Marleen De Troch, Valeria Di Dato, **Patrick Fink**, Carolina Giraldo, Fabienne Le Grand, Iván Loaiza, Margaux Mathieu-Resuge, Peter D. Nichols, Christopher C. Parrish, Fany Sardenne, Marie Vagner, Fabrice Pernet, and Philippe Soudant (2020) State of art and best practices for fatty acid analysis in aquatic sciences. *ICES Journal of Marine Science* 77 (7-8): fsaa121.
 59. Mirko Mutalipassi*, **Patrick Fink***, Chingoileima Maibam, Lucia Porzio, Maria-Cristina Buia, Maria Cristina Gambi, Francesco Paolo Patti, Maria Beatrice Scipione, Maurizio Lorenti, and Valerio Zupo (2020) Ocean acidification alters the responses of invertebrates to wound-activated infochemicals produced by epiphytes of the seagrass *Posidonia oceanica*. *Journal of Experimental Marine Biology and Ecology* 530–531: 151435. *shared first authorship
 58. Jens Boyen, **Patrick Fink**, Christoph Mensens, Pascal I. Hablützel, and Marleen De Troch (2020) Fatty acid bioconversion in harpacticoid copepods in a changing environment: a transcriptomic approach. *Philosophical Transactions of the Royal Society B* 375: article 20190645.
 57. Stephanie Trench-Fiol, and **Patrick Fink** (2020) Metatranscriptomics from a small aquatic system: microeukaryotic community functions through the diurnal cycle. *Frontiers in Microbiology* 11:1006.
 56. Marco Kenschak, Jochen Zubrod, Patrick Baudy, **Patrick Fink**, Kilian Kenngott, Simon Lüderwald, Katja Englert, Cynthia Jusi, Ralf Schulz, and Mirco Bundschuh (2020) The importance of diet-related effects of the antibiotic ciprofloxacin on the leaf-shredding invertebrate *Gammarus fossarum* (Crustacea; Amphipoda). *Aquatic Toxicology* 222: article 105461.
 55. **Patrick Fink**, Helge Norf, Christine Anlanger, Mario Brauns, Norbert Kamjunke, Ute Risse-Buhl, Mechthild Schmitt-Jansen, Markus Weitere, and Dietrich Borchardt (2020) Streamside mobile mesocosms (MOBICOS): A new modular research infrastructure for hydro-ecological process studies across catchment-scale gradients. *International Review of Hydrobiology* 105 (3-4): 63-73.
 54. Timm Reinhardt, Jana Moelzner, Thomas R. Neu and **Patrick Fink** (2020) Biofilm-pads - An easy method to manufacture artificial biofilms embedded in an alginate polymer matrix. *Limnology and Oceanography: Methods* 18 (1): 1-7.
 53. Heidrun S. Windisch and **Patrick Fink** (2019) Transcriptome sequencing of a keystone aquatic herbivore yields insights on the temperature-dependent metabolism of essential lipids. *BMC Genomics* 20: 894.
 52. Gabriele Trommer, Patrick Lorenz, Ameli Lentz, **Patrick Fink**, and Herwig Stibor (2019) Nitrogen enrichment leads to changing fatty acid composition in phytoplankton and negatively affects zooplankton in a lake community. *Scientific Reports* 9: 16805.
 51. Mahasweta Saha, Elisa Berdalet, Ylenia Carotenuto, **Patrick Fink**, Tilmann Harder, Uwe John, Fabrice Not, Georg Pohnert, Philippe Potin, Erik Selander, Wim Vyverman, Thomas Wichard, Valerio Zupo and Michael Steinke (2019) Using chemical language to shape future marine health. *Frontiers in Ecology and the Environment* 17 (9): 530-537.
 50. Valerio Zupo, Mirko Mutalipassi, Francesca Glaviano, Anna Cecilia Buono, Antonio Cannavacciuolo, and **Patrick Fink** (2019) Inducers of settlement and metamorphosis of the shrimp *Hippolyte inermis* Leach in *Posidonia oceanica*. *Scientific Reports* 9: 12336.
 49. Maja Ilić, Christian Werner and **Patrick Fink** (2019) Equal relevance of omega-3 and omega-6 polyunsaturated fatty acids for the fitness of *Daphnia* spp. *Limnology and Oceanography* 64 (6): 2512-2525.

48. Timm Reinhardt, Mona van Schingen, Heidrun Sigrud Windisch, Truong Quang Nguyen, Thomas Ziegler and **Patrick Fink** (2019) Monitoring a loss: Detection of the semi-aquatic crocodile lizard (*Shinisaurus crocodilurus*) in inaccessible habitats via environmental DNA. *Aquatic Conservation: Marine and Freshwater Ecosystems* 29: 353-360.
47. Alessandra Iannino, Alexander Tim Ludwig Vosshage, Markus Weitere and **Patrick Fink** (2019) High nutrient availability leads to weaker top-down control of stream periphyton: Compensatory feeding in *Ancylus fluviatilis*. *Freshwater Biology* 64 (1): 37-45.
46. Eric von Elert and **Patrick Fink** (2018) Global warming: testing for direct and indirect effects of temperature at the interface of primary producers and herbivores is required. *Frontiers in Ecology and Evolution* 6:87.
45. **Patrick Fink** and Heidrun S. Windisch (2018) The essential omega-3 fatty acid EPA affects expression of genes involved in the metabolism of omega-6 derived eicosanoids in *Daphnia magna*. *Hydrobiologia* (*in press*) doi: 10.1007/s10750-018-3675-z.
44. Timm Reinhardt, Louisa Baldauf, Maja Ilic and **Patrick Fink** (2018) Cast away: Drift as the main determinant for larval survival in western fire salamanders (*Salamandra salamandra*) in headwater streams. *Journal of Zoology* 306 (3): 171-179.
43. Cristina Dorador, **Patrick Fink**, Martha Hengst, Gonzalo Icaza, Alvaro Villalobos, Drina Vejar, Daniela Meneses, Vinko Zadjelovic, Lisa Burmann, Jana Moelzner and Chris Harrod (2018) Microbial community composition and trophic role along a marked salinity gradient in Laguna Piular, Salar de Atacama, Chile. *Antonie van Leeuwenhoek* 111: 1361-1374.
42. Heidrun S. Windisch and **Patrick Fink** (2018) The molecular basis of essential fatty acid limitation in *Daphnia magna* - a transcriptomic approach. *Molecular Ecology* 27 (4): 871-885.
41. Anke Schwarzenberger and **Patrick Fink** (2018) Gene expression and activity of digestive enzymes of *Daphnia pulex* in response to food quality differences. *Comparative Biochemistry and Physiology B* 218: 23-29.
40. **Patrick Fink** and Eric von Elert (2017) No effect of insect repellents on the behaviour of *Lymnaea stagnalis* at environmentally relevant concentrations. *Environmental Science and Pollution Research* 24 (33): 26120–26124.
39. Sophie Groendahl and **Patrick Fink** (2017) High dietary quality of non-toxic cyanobacteria for a benthic grazer and its implications for the control of cyanobacterial biofilms. *BMC Ecology* 17: 20.
38. Sophie Groendahl and **Patrick Fink** (2017) Consumer species richness and nutrients interact in determining producer diversity. *Scientific Reports* 7: 44869.
37. Sophie Groendahl, Maria Kahlert and **Patrick Fink** (2017) The best of both worlds: A combined approach for analyzing microalgal diversity via metabarcoding and morphology-based methods. *PloS One* 12 (12): e0172808.
36. Jochen P. Zubrod, Dominic Englert, Jakob Wolfram, Ricki R. Rosenfeldt, Alexander Feckler, Rebecca Bundschuh, Frank Seitz, Marco Kanschak, Patrick Baudy, Simon Lüderwald, **Patrick Fink**, Andreas Lorke, Ralf Schulz, and Mirco Bundschuh (2017) Long-term effects of fungicides on leaf-associated microorganisms and shredder populations – an artificial stream study. *Environmental Science and Technology* 36 (8): 2178-2189.
35. **Patrick Fink**, Jana Moelzner, Ruediger Berghahn and Eric von Elert (2017) Do insect repellents induce drift behaviour in aquatic non-target organisms? *Water Research* 108 (1): 32–38.
34. Valerio Zupo, Mirko Mutalipassi, **Patrick Fink** and Marco Di Natale (2016) Effect of ocean acidification on the communications among invertebrates mediated by plant-produced volatile organic compounds. *Global Journal of Ecology* 1 (1): 12-18.
33. Sophie Groendahl and **Patrick Fink** (2016) The effect of diet mixing on a nonselective herbivore. *PloS One*: 11 (7): e0158924.

32. Mark Christjani, **Patrick Fink** and Eric von Elert (2016) Phenotypic plasticity in three *Daphnia* genotypes in response to predator kairomone: evidence for an involvement of chitin deacetylases. *Journal of Experimental Biology* 219: 1679-1704.
 31. Eric von Elert, Katja Preuss & **Patrick Fink** (2016) Infodisruption of inducible anti-predator defenses through commercial insect repellents? *Environmental Pollution* 210: 18-26.
 30. Mohammad Reza Ghomi, Eric Von Elert, Andreas Uhde and **Patrick Fink** (2015) Nutritional responses of Round Goby (*Neogobius melanostomus*) caught from Rhine river (Germany) as a wild species to different fish oils. *Animal Nutrition and Feed Technology* 15 (3): 375-384.
 29. Jana Moelzner & **Patrick Fink** (2015) Gastropod grazing on a benthic alga leads to liberation of food-finding infochemicals. *Oikos* 124 (12): 1603-1608.
 28. Paulin Hardenbicker, Markus Weitere, Patrick Fink & Helmut Hillebrand (2015) Effects of temperature on the mutual interaction between phytoplankton communities and benthic filter feeders. *Fundamental and Applied Limnology* 187 (2): 87-100.
 27. Valerio Zupo, Chingoleima Maibam, Maria Cristina Buia, Maria Cristina Gambi, Francesco Paolo Patti, Maria Beatrice Scipione, Maurizio Laurenti & **Patrick Fink** (2015) Chemoreception of the seagrass *Posidonia oceanica* by benthic invertebrates is altered by seawater acidification. *Journal of Chemical Ecology* 41 (8): 766-779.
 26. Chingoleima Maibam, **Patrick Fink**, Giovanna Romano, Maria Cristina Buia, Emanuela Butera & Valerio Zupo, (2015) *Centropages typicus* (Crustacea, Copepoda) reacts to volatile compounds produced by planktonic algae. *Marine Ecology* 36 (6): 819-834.
 25. Valerio Zupo, Chingoleima Maibam, **Patrick Fink** & Eric Von Elert (2015) Effect of storage on the fatty acid content of foods for post-larvae of the crustacean decapod *Hippolyte inermis*. *Invertebrate Reproduction and Development* 59 (2): 45-54.
 24. Jana Moelzner & **Patrick Fink** (2015) Consumer patchiness explained by volatile infochemicals in a freshwater ecosystem. *Ecosphere* 6 (3): Article 35.
 23. Jana M\"olzner and **Patrick Fink** (2014) The smell of good food: volatile infochemicals as resource quality indicators. *Journal of Animal Ecology* 83 (5): 1007-1014.
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22. Chingoleima Maibam, **Patrick Fink**, Giovanna Romano, M. Cristina Buia, M. Cristina Gambi, M. Beatrice Scipione, Francesco P. Patti, Maurizio Lorenti, Emanuela Butera and Valerio Zupo (2014) Ecological relevance of wound-activated compounds produced by diatoms as toxins and infochemicals for benthic invertebrates. *Marine Biology* 161 (7): 1639-1652.
 21. Mohammad Reza Ghomi, Eric Von Elert, Jost Borchering, Andreas Uhde and **Patrick Fink** (2014) Correlation between body size and fatty acid and essential amino acid composition of round goby (*Neogobius melanostomus*) and monkey goby (*Neogobius fluviatilis*) from Rhine River (Germany). *Biologia* 69 (6): 799-805.
 20. Mohammad Reza Ghomi, Eric Von Elert, Jost Borchering and **Patrick Fink** (2014) Fatty acid composition and content of round goby (*Neogobius melanostomus* Pallas 1814) and monkey goby (*Neogobius fluviatilis* Pallas 1814), two invasive gobiid species in the lower Rhine River (Germany). *Journal of Applied Ichthyology* 30 (3): 527-531.
 19. **Patrick Fink** and Chris Harrod (2013) Carbon and nitrogen stable isotopes reveal use of pelagic resources by the invasive Ponto-Caspian Mysid *Limnomysis benedeni*. *Isotopes in Environmental and Health Studies* 49 (3): 312-317.
 18. **Patrick Fink** (2013) Invasion of quality: High amounts of essential fatty acids in the invasive Ponto-Caspian mysid *Limnomysis benedeni*. *Journal of Plankton Research* 35 (4): 907-913.

17. **Patrick Fink**, Elke Reichwaldt, Axel Rossberg and Chris Harrod (2012) Determining trophic niche width: An experimental test of the stable isotope approach. *Oikos* 121 (12): 1985–1994.
16. Simon von Berlepsch, Hans-Henning Kunz, Susanne Brodesser, **Patrick Fink**, Kay Marin, Ulf-Ingo Flügge and Markus Gierth (2012) The acyl-acyl carrier protein synthetase from *Synechocystis* sp. PCC6803 mediates fatty acid import. *Plant Physiology* 159 (2): 606-617.
15. Franja Pajk, Eric von Elert and **Patrick Fink** (2012) Interaction of changes in food quality and temperature reveals maternal effects in a keystone aquatic herbivore. *Limnology & Oceanography* 57 (1): 281-292.
14. **Patrick Fink**, Anke Kottsieper, Martina Heynen and Jost Borchering (2012) Selective zooplanktivory of the invasive ponto-caspian mysid *Limnomysis benedeni* and possible consequences for the zooplankton community structure of invaded habitats. *Aquatic Sciences* 74: 191-202.
13. Peter Deines and **Patrick Fink** (2011) The potential of methanotrophic bacteria to compensate for food quantity or food quality limitations in *Daphnia*. *Aquatic Microbial Ecology* 65 (2): 197-206.
12. Patrick Fink, Claudia Pflitsch, & Kay Marin (2011) Dietary essential amino acids affect the reproduction of the keystone herbivore *Daphnia pulex*. *PLoS One* 6 (12): e28498.
11. Jonas Persson*, **Patrick Fink***, Akira Goto*, James M. Hood*, Jayne Jonas* and Satoshi Kato* (2010) To be or not to be what you eat: Regulation of stoichiometric homeostasis among autotrophs and heterotrophs. *Oikos* 119 (5): 741-751; * all authors contributed equally to this publication.
10. Adrian A. Bischoff, **Patrick Fink** and Uwe Waller (2009) The fatty acid composition of *Nereis diversicolor* cultured in an integrated recirculated system: possible implications for aquaculture. *Aquaculture* 296: 271-276.
9. **Patrick Fink** (2008) Algal food quality affects growth of a benthic herbivore. *Verh. Int. Verin. Limnol.* 30 (4): 531-533.
8. **Patrick Fink** (2007) Ecological functions of volatile organic compounds in aquatic systems. *Marine & Freshwater Behaviour & Physiology* 40 (3): 155-168. Among the 20 most read papers in *Mar. Freshw. Behav. Physiol.*
7. György Abrusan, **Patrick Fink** and Winfried Lampert (2007). Biochemical limitation of resting egg production in *Daphnia*. *Limnology & Oceanography* 52 (4): 1724-1728..
6. **Patrick Fink** and Eric von Elert (2006). Physiological responses to stoichiometric constraints: nutrient limitation and compensatory feeding in a freshwater snail. *Oikos* 115 (3): 484-494.
5. **Patrick Fink**, Eric Von Elert and Friedrich Jüttner (2006). Oxylipins from freshwater diatoms act as attractants for a benthic herbivore. *Arch. Hydrobiol.* 167 (1-4): 561-574.
4. **Patrick Fink**, Eric Von Elert and Friedrich Jüttner (2006). Volatile organic substances released by a green alga as attractants for a herbivorous freshwater gastropod. *Journal of Chemical Ecology* 32:1867-1881.
3. **Patrick Fink** and Eric von Elert (2006). Food quality of algae and cyanobacteria for the freshwater gastropod *Bithynia tentaculata*: the role of polyunsaturated fatty acids. *Verh. Int. Verin. Limnol.* 29 (3): 1235-1240.
2. **Patrick Fink**, Lars Peters and Eric Von Elert (2006) Stoichiometric mismatch between littoral invertebrates and their periphyton food. *Arch. Hydrobiol.* 165: 145-165.
1. Erik J. Van Hannen, **Patrick Fink** and Miquel Lüring (2002) A revised secondary structure model for the internal transcribed spacer 2 of the green algae *Scenedesmus* and *Desmodesmus* and its implications for the phylogeny of these algae. *European Journal of Phycology* 37: 203-208.

Theses:

- Patrick Fink (2014) Herbivores in aquatic food webs – dietary constraints and compensation mechanisms. Habilitation thesis for obtaining the *venia legendi*, University of Cologne.
- Patrick Fink (2005) Food quality and food choice in freshwater gastropods: Field and laboratory investigations on a key component of littoral food webs. Dissertation, University of Konstanz (rated 'excellent', '*summa cum laude*')
- Patrick Fink (2001) Untersuchungen zur Coenobieninduktion in *Scenedesmus* durch *Daphnia*. Diploma thesis, Universität Konstanz (rated 'excellent', '*sehr gut*')