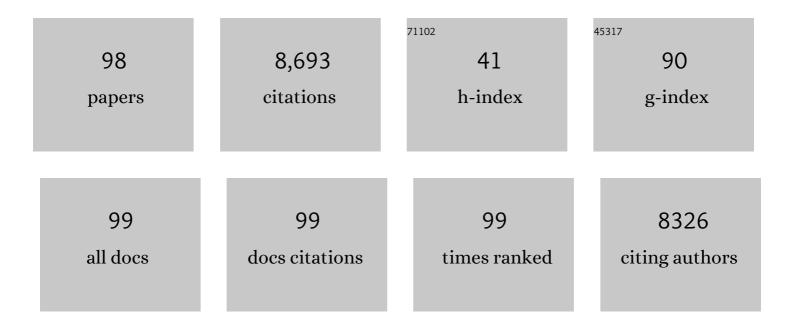
## **Christian Laforsch**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5214689/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	The Ecoresponsive Genome of <i>Daphnia pulex</i> . Science, 2011, 331, 555-561.	12.6	1,086
2	Transgenerational induction of defences in animals and plants. Nature, 1999, 401, 60-63.	27.8	732
3	Organic fertilizer as a vehicle for the entry of microplastic into the environment. Science Advances, 2018, 4, eaap8060.	10.3	617
4	Contamination of beach sediments of a subalpine lake with microplastic particles. Current Biology, 2013, 23, R867-R868.	3.9	519
5	Identification and quantification of macro- and microplastics on an agricultural farmland. Scientific Reports, 2018, 8, 17950.	3.3	470
6	A novel, highly efficient method for the separation and quantification of plastic particles in sediments of aquatic environments. Limnology and Oceanography: Methods, 2012, 10, 524-537.	2.0	468
7	Pigments and plastic in limnetic ecosystems: A qualitative and quantitative study on microparticles of different size classes. Water Research, 2016, 98, 64-74.	11.3	359
8	Enzymatic Purification of Microplastics in Environmental Samples. Environmental Science & Technology, 2017, 51, 14283-14292.	10.0	338
9	Finding Microplastics in Soils: A Review of Analytical Methods. Environmental Science & Technology, 2020, 54, 2078-2090.	10.0	288
10	Fate of Soâ€Called Biodegradable Polymers in Seawater and Freshwater. Global Challenges, 2017, 1, 1700048.	3.6	202
11	Spatial and temporal variation of macro-, meso- and microplastic abundance on a remote coral island of the Maldives, Indian Ocean. Marine Pollution Bulletin, 2017, 116, 340-347.	5.0	195
12	Environmental exposure enhances the internalization of microplastic particles into cells. Science Advances, 2020, 6, .	10.3	176
13	Biofilm and Diatom Succession on Polyethylene (PE) and Biodegradable Plastic Bags in Two Marine Habitats: Early Signs of Degradation in the Pelagic and Benthic Zone?. PLoS ONE, 2015, 10, e0137201.	2.5	152
14	Coral surface area quantification–evaluation of established techniques by comparison with computer tomography. Coral Reefs, 2009, 28, 109-117.	2.2	150
15	Do microplastic particles affect Daphnia magna at the morphological, life history and molecular level?. PLoS ONE, 2017, 12, e0187590.	2.5	147
16	Effects of microplastic particles and leaching additive on the life history and morphology of Daphnia magna. Environmental Pollution, 2019, 255, 113233.	7.5	138
17	Occurence of microplastics in the hyporheic zone of rivers. Scientific Reports, 2019, 9, 15256.	3.3	136
18	INDUCIBLE DEFENSES IN MULTIPREDATOR ENVIRONMENTS: CYCLOMORPHOSIS IN DAPHNIA CUCULLATA. Ecology, 2004, 85, 2302-2311.	3.2	133

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19	A "crown of thorns―is an inducible defense that protects <i>Daphnia</i> against an ancient predator. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2248-2252.	7.1	115
20	Inducible defenses: The relevance of chemical alarm cues in <i>Daphnia</i> . Limnology and Oceanography, 2006, 51, 1466-1472.	3.1	106
21	Coastal accumulation of microplastic particles emitted from the Po River, Northern Italy: Comparing remote sensing and hydrodynamic modelling with in situ sample collections. Marine Pollution Bulletin, 2019, 138, 561-574.	5.0	103
22	An acoustic microscopy technique reveals hidden morphological defenses in <i>Daphnia</i> . Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15911-15914.	7.1	89
23	Daphnia magna transcriptome by RNA-Seq across 12 environmental stressors. Scientific Data, 2016, 3, 160030.	5.3	89
24	A methodology for the fast identification and monitoring of microplastics in environmental samples using random decision forest classifiers. Analytical Methods, 2019, 11, 2277-2285.	2.7	83
25	Hazardous or not – Are adult and juvenile individuals of Potamopyrgus antipodarum affected by non-buoyant microplastic particles?. Environmental Pollution, 2016, 218, 383-391.	7.5	81
26	Shape, size, and polymer dependent effects of microplastics on Daphnia magna. Journal of Hazardous Materials, 2022, 426, 128136.	12.4	68
27	Changes in water chemistry can disable plankton prey defenses. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15377-15382.	7.1	66
28	Embryological aspects of inducible morphological defenses inDaphnia. Journal of Morphology, 2004, 262, 701-707.	1.2	65
29	Analysis of microplastics of a broad size range in commercially important mussels by combining FTIR and Raman spectroscopy approaches. Environmental Pollution, 2021, 269, 116147.	7.5	64
30	Growing large and bulky in the presence of the enemy: Daphnia magna gradually switches the mode of inducible morphological defences. Functional Ecology, 2011, 25, 1137-1143.	3.6	56
31	Density-dependent adjustment of inducible defenses. Scientific Reports, 2015, 5, 12736.	3.3	53
32	Long-term exposure of Daphnia magna to polystyrene microplastic (PS-MP) leads to alterations of the proteome, morphology and life-history. Science of the Total Environment, 2021, 795, 148822.	8.0	53
33	Proteomic analysis of Daphnia magna hints at molecular pathways involved in defensive plastic responses. BMC Genomics, 2014, 15, 306.	2.8	50
34	Tackling the Challenge of Extracting Microplastics from Soils: A Protocol to Purify Soil Samples for Spectroscopic Analysis. Environmental Toxicology and Chemistry, 2022, 41, 844-857.	4.3	49
35	Detection and enumeration of microbial cells within highly porous calcareous reef sands. Marine and Freshwater Research, 2006, 57, 415.	1.3	48
36	Variation in plastic abundance at different lake beach zones - A case study. Science of the Total Environment, 2018, 613-614, 530-537.	8.0	47

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#	Article	IF	CITATIONS
37	Airborne microplastic concentrations and deposition across the Weser River catchment. Science of the Total Environment, 2022, 818, 151812.	8.0	47
38	From properties to toxicity: Comparing microplastics to other airborne microparticles. Journal of Hazardous Materials, 2022, 428, 128151.	12.4	47
39	Abundance and distribution of large microplastics (1–5 mm) within beach sediments at the Po River Delta, northeast Italy. Marine Pollution Bulletin, 2019, 149, 110515.	5.0	46
40	Chaoborus and Gasterosteus Anti-Predator Responses in Daphnia pulex Are Mediated by Independent Cholinergic and Gabaergic Neuronal Signals. PLoS ONE, 2012, 7, e36879.	2.5	45
41	Plastic waste interferes with chemical communication in aquatic ecosystems. Scientific Reports, 2019, 9, 5889.	3.3	41
42	Shell resource partitioning as a mechanism of coexistence in two co-occurring terrestrial hermit crab species. BMC Ecology, 2020, 20, 1.	3.0	41
43	Computer-Assisted Analysis of Microplastics in Environmental Samples Based on μFTIR Imaging in Combination with Machine Learning. Environmental Science and Technology Letters, 2022, 9, 90-95.	8.7	41
44	Extreme helmet formation in Daphnia cucullata induced by small-scale turbulence. Journal of Plankton Research, 2004, 26, 81-87.	1.8	40
45	Uncovering Ultrastructural Defences in Daphnia magna – An Interdisciplinary Approach to Assess the Predator-Induced Fortification of the Carapace. PLoS ONE, 2013, 8, e67856.	2.5	40
46	Dopamine is a key regulator in the signalling pathway underlying predator-induced defences in <i>Daphnia</i> . Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151440.	2.6	40
47	A precise and non-destructive method to calculate the surface area in living scleractinian corals using X-ray computed tomography and 3D modeling. Coral Reefs, 2008, 27, 811-820.	2.2	37
48	A <i>Daphnia</i> Parasite ( <i>Caullerya mesnili</i> ) Constitutes a New Member of the Ichthyosporea, a Group of Protists near the Animal–Fungi Divergence. Journal of Eukaryotic Microbiology, 2010, 57, 328-336.	1.7	35
49	Knowing the Enemy: Inducible Defences in Freshwater Zooplankton. Diversity, 2020, 12, 147.	1.7	35
50	Microplastic sample purification methods - Assessing detrimental effects of purification procedures on specific plastic types. Science of the Total Environment, 2022, 833, 154824.	8.0	33
51	Structural Diversity in Early-Stage Biofilm Formation on Microplastics Depends on Environmental Medium and Polymer Properties. Water (Switzerland), 2020, 12, 3216.	2.7	29
52	Supposedly identical microplastic particles substantially differ in their material properties influencing particle-cell interactions and cellular responses. Journal of Hazardous Materials, 2022, 425, 127961.	12.4	29
53	Interclonal variation, effectiveness and long-term implications of Triops-induced morphological defences in Daphnia magna Strauss. Journal of Plankton Research, 2012, 34, 152-160.	1.8	25
54	Inducible Defenses with a "Twist": Daphnia barbata Abandons Bilateral Symmetry in Response to an Ancient Predator. PLoS ONE, 2016, 11, e0148556.	2.5	25

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55	The role of turbulent hydrodynamics and surface morphology on heat and mass transfer in corals. Journal of the Royal Society Interface, 2018, 15, 20180448.	3.4	23
56	Morphology of the <i>Daphnia</i> nervous system: A comparative study on <i>Daphnia pulex</i> , <i>Daphnia lumholtzi</i> , and <i>Daphnia longicephala</i> . Journal of Morphology, 2012, 273, 1392-1405.	1.2	21
57	Interclonal proteomic responses to predator exposure in <i>Daphnia magna</i> may depend on predator composition of habitats. Molecular Ecology, 2015, 24, 3901-3917.	3.9	21
58	Predator-specific reversibility of morphological defenses in <i>Daphnia barbata</i> . Journal of Plankton Research, 2016, 38, 771-780.	1.8	21
59	Neckteeth formation in two species of the Daphnia curvirostris complex (Crustacea: Cladocera). Journal of Limnology, 2011, 70, 359.	1.1	19
60	Flooding frequency and floodplain topography determine abundance of microplastics in an alluvial Rhine soil. Science of the Total Environment, 2022, 836, 155141.	8.0	19
61	Disentangling the environmental impact of different human disturbances: a case study on islands. Scientific Reports, 2019, 9, 13712.	3.3	18
62	Municipal biowaste treatment plants contribute to the contamination of the environment with residues of biodegradable plastics with putative higher persistence potential. Scientific Reports, 2022, 12, .	3.3	18
63	Effects of a pharmaceutical mixture at environmentally relevant concentrations on the amphipod Gammarus fossarum. Marine and Freshwater Research, 2010, 61, 196.	1.3	16
64	A sugar biomarker proxy for assessing terrestrial versus aquatic sedimentary input. Organic Geochemistry, 2016, 98, 98-104.	1.8	16
65	Microplastic contamination of the drilling bivalve Hiatella arctica in Arctic rhodolith beds. Scientific Reports, 2021, 11, 14574.	3.3	16
66	The influence of simulated microgravity on the proteome of Daphnia magna. Npj Microgravity, 2015, 1, 15016.	3.7	14
67	The role of vision for navigation in the crown-of-thorns seastar, Acanthaster planci. Scientific Reports, 2016, 6, 30834.	3.3	14
68	Pitfalls and Limitations in Microplastic Analyses. Handbook of Environmental Chemistry, 2020, , 13-42.	0.4	13
69	Tourism and urban development as drivers for invertebrate diversity loss on tropical islands. Royal Society Open Science, 2021, 8, 210411.	2.4	12
70	In situ Prokaryotic and Eukaryotic Communities on Microplastic Particles in a Small Headwater Stream in Germany. Frontiers in Microbiology, 2021, 12, 660024.	3.5	12
71	Effect of water currents on organic matter release by two scleractinian corals. Aquatic Ecology, 2012, 46, 335-341.	1.5	11
72	A novel, non-invasive and in vivo approach to determine morphometric data in starfish. Journal of Experimental Marine Biology and Ecology, 2013, 449, 1-9.	1.5	11

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#	Article	IF	CITATIONS
73	Predatorâ€specific inducible morphological defenses of a water flea against two freshwater predators. Journal of Morphology, 2020, 281, 653-661.	1.2	10
74	Sublethal effects of the betaâ€blocker sotalol at environmentally relevant concentrations on the New Zealand mudsnail <i>Potamopyrgus antipodarum</i> . Environmental Toxicology and Chemistry, 2014, 33, 2510-2515.	4.3	9
75	Repulsive Interactions of Eco-corona-Covered Microplastic Particles Quantitatively Follow Modeling of Polymer Brushes. Langmuir, 2022, 38, 8748-8756.	3.5	9
76	The Influence of Water Currents on Movement Patterns on Sand in the Crown-of-Thorns Seastar (Acanthaster cf. solaris). Diversity, 2016, 8, 25.	1.7	8
77	Responses of Microcrustaceans to Simulated Microgravity (2D-Clinorotation) - Preliminary Assessments for the Development of Bioregenerative Life Support Systems (BLSS). Microgravity Science and Technology, 2016, 28, 337-344.	1.4	7
78	Classification of target tissues of Eisenia fetida using sequential multimodal chemical analysis and machine learning. Histochemistry and Cell Biology, 2022, 157, 127-137.	1.7	6
79	Daphnia longicephala neuropeptides: Morphological description of crustacean cardioactive peptide (CCAP) and periviscerokinins in the Ctenodaphnia central nervous system. Neuropeptides, 2014, 48, 287-293.	2.2	5
80	The influence of gravity and light on locomotion and orientation of Heterocypris incongruens and Notodromas monacha (Crustacea, Ostracoda). Npj Microgravity, 2018, 4, 3.	3.7	5
81	Compartmentalized organization of ecological niche occupation in insular invertebrate communities. Ecology and Evolution, 2021, 11, 471-480.	1.9	5
82	Uncovering the chemistry behind inducible morphological defences in the crustacean Daphnia magna via micro-Raman spectroscopy. Scientific Reports, 2020, 10, 22408.	3.3	5
83	Impacts on food web properties of island invertebrate communities vary between different human land uses. Science of the Total Environment, 2022, 831, 154838.	8.0	5
84	"Crown of thorns―of Daphnia. Communicative and Integrative Biology, 2009, 2, 379-381.	1.4	4
85	Life History Responses and Feeding Behavior of Microcrustacea in Altered Gravity – Applicability in Bioregenerative Life Support Systems (BLSS). Microgravity Science and Technology, 2017, 29, 241-249.	1.4	4
86	Daytime activity and habitat preferences of two sympatric hermit crab species (Decapoda: Anomura:) Tj ETQq0 (	) 0.rgBT /C	Overlock 10 Tf
87	Phenotypic plasticity of senescence in <i>Daphnia</i> under predation impact: no ageing acceleration when the perceived risk decreases with age. Royal Society Open Science, 2020, 7, 191382.	2.4	4
88	Improving the proteome coverage of <i>Daphnia magna</i> ―implications for future ecotoxicoproteomics studies. Proteomics, 2022, 22, e2100289.	2.2	4
89	Proteomic analysis in the model organism Daphnia has the potential to unravel molecular pathways involved in phenotypic changes in response to changing environmental conditions. Hydrobiologia, 2019, 846, 27-38.	2.0	3

90 Microplastics: A Novel Suite of Environmental Contaminants but Present for Decades. , 2021, , 1-26.

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#	Article	IF	CITATIONS
91	Diversity Patterns and Community Structure of the Ground-Associated Macrofauna along the Beach-Inland Transition Zone of Small Tropical Islands. Diversity, 2021, 13, 377.	1.7	2
92	The Beauty is a beast: Does leachate from the invasive terrestrial plant <i>Impatiens glandulifera</i> affect aquatic food webs?. Ecology and Evolution, 2022, 12, e8781.	1.9	2
93	MALDI mass spectrometry imaging workflow for the aquatic model organisms Danio rerio and Daphnia magna. Scientific Reports, 2022, 12, 7288.	3.3	2
94	Allochthonous resources are less important for faunal communities on highly productive, small tropical islands. Ecology and Evolution, 2021, 11, 13128-13138.	1.9	1
95	First record of a wolf spider, <i>Draposa lyrivulva</i> (B¶senberg & Strand 1906) (Araneae: Lycosidae), from the Maldivian Islands, Indian Ocean. Acta Arachnologica, 2020, 69, 115-119.	0.2	1
96	Taking advantage of transparency: A proof-of-principle for the analysis of the uptake of labeled microplastic particles by organisms of different functional feeding guilds using an adapted CUBIC protocol. Science of the Total Environment, 2022, 832, 154922.	8.0	1
97	Preface: Blasts from the past and back to the future. Hydrobiologia, 2019, 846, 1-3.	2.0	Ο
98	Microplastics: A Novel Suite of Environmental Contaminants but Present for Decades. , 2021, , 1185-1210.		0