

Christian Schlechtriem

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,635
citations

270111

25
h-index

340414

39
g-index

55
all docs

55
docs citations

55
times ranked

2197
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly unsaturated fatty acid synthesis in marine fish: Cloning, functional characterization, and nutritional regulation of fatty acyl Δ^6 desaturase of Atlantic cod (<i>Gadus morhua</i> L.). <i>Lipids</i> , 2006, 41, 1003-1016.	0.7	192
2	Effect of temperature on the fatty acid composition and temporal trajectories of fatty acids in fasting <i>Daphnia pulex</i> (Crustacea, cladocera). <i>Lipids</i> , 2006, 41, 397-400.	0.7	113
3	Biotransformation Changes Bioaccumulation and Toxicity of Diclofenac in Aquatic Organisms. <i>Environmental Science & Technology</i> , 2020, 54, 4400-4408.	4.6	91
4	Effect of different lipid extraction methods on $\delta^{13}\text{C}$ of lipid and lipid-free fractions of fish and different fish feeds. <i>Isotopes in Environmental and Health Studies</i> , 2003, 39, 135-140.	0.5	82
5	Biomagnification and tissue distribution of perfluoroalkyl substances (PFASs) in market-size rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 2078-2088.	2.2	69
6	Silver nanoparticles in sewage treatment plant effluents: chronic effects and accumulation of silver in the freshwater amphipod <i>Hyalella azteca</i> . <i>Environmental Sciences Europe</i> , 2018, 30, 7.	2.6	55
7	A comparison of the metabolic profile on intact tissue and extracts of muscle and liver of juvenile Atlantic salmon (<i>Salmo salar</i> L.) – Application to a short feeding study. <i>Food Chemistry</i> , 2011, 129, 1397-1405.	4.2	50
8	High-Resolution ^1H Magic Angle Spinning NMR Spectroscopy of Intact Arctic Char (<i>Salvelinus Alpinus</i>) Muscle. Quantitative Analysis of ^3F Fatty Acids, EPA and DHA. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 10799-10803.	2.4	49
9	Silver nanoparticles in sewage sludge: Bioavailability of sulfidized silver to the terrestrial isopod <i>Porcellio scaber</i> . <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1606-1613.	2.2	49
10	Bioaccumulation in aquatic systems: methodological approaches, monitoring and assessment. <i>Environmental Sciences Europe</i> , 2015, 27, 5.	2.6	48
11	Cross-Species Extrapolation of Uptake and Disposition of Neutral Organic Chemicals in Fish Using a Multispecies Physiologically-Based Toxicokinetic Model Framework. <i>Environmental Science & Technology</i> , 2016, 50, 1914-1923.	4.6	38
12	The suitability of the free-living nematode <i>Panagrellus redivivus</i> as live food for first-feeding fish larvae. <i>Journal of Applied Ichthyology</i> , 2004, 20, 161-168.	0.3	36
13	Reliability of In Vitro Methods Used to Measure Intrinsic Clearance of Hydrophobic Organic Chemicals by Rainbow Trout: Results of an International Ring Trial. <i>Toxicological Sciences</i> , 2018, 164, 563-575.	1.4	36
14	Determination of lipid content in fish samples from bioaccumulation studies: contributions to the revision of guideline OECD 305. <i>Environmental Sciences Europe</i> , 2012, 24, .	2.6	34
15	Chronic effects of wastewater-borne silver and titanium dioxide nanoparticles on the rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Science of the Total Environment</i> , 2020, 723, 137974.	3.9	32
16	Comparative multi-generation study on long-term effects of pristine and wastewater-borne silver and titanium dioxide nanoparticles on key lifecycle parameters in <i>Daphnia magna</i> . <i>NanoImpact</i> , 2019, 14, 100163.	2.4	31
17	Stable Isotopes as a Tool for Nutrient Assimilation Studies in Larval Fish Feeding on Live Food. <i>Aquatic Ecology</i> , 2004, 38, 93-100.	0.7	30
18	Bioaccumulation assessment of nanomaterials using freshwater invertebrate species. <i>Environmental Sciences Europe</i> , 2021, 33, .	2.6	30

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19	Effect of Long-term Fasting on the Use of Fatty Acids as Trophic Markers in the Opossum Shrimp <i>Mysis relicta</i> —A Laboratory Study. <i>Journal of Great Lakes Research</i> , 2008, 34, 143-152.	0.8	28
20	Development of a low-cost technology for mass production of the free-living nematode <i>Panagrellus redivivus</i> as an alternative live food for first feeding fish larvae. <i>Applied Microbiology and Biotechnology</i> , 2003, 60, 556-559.	1.7	27
21	Mass produced nematodes <i>Panagrellus redivivus</i> as live food for rearing carp larvae: preliminary results. <i>Aquaculture Research</i> , 2004, 35, 547-551.	0.9	27
22	Sorption of Highly Hydrophobic Organic Chemicals to Organic Matter Relevant for Fish Bioconcentration Studies. <i>Environmental Science & Technology</i> , 2016, 50, 8316-8323.	4.6	27
23	Digestion and Assimilation of the Free-living Nematode <i>Panagrellus redivivus</i> Fed to First Feeding Coregonid Larvae: Evidence from Histological and Isotopic Studies. <i>Journal of the World Aquaculture Society</i> , 2007, 36, 24-31.	1.2	26
24	Bioconcentration studies with the freshwater amphipod <i>Hyalella azteca</i> : are the results predictive of bioconcentration in fish?. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1628-1641.	2.7	26
25	Bioavailability of silver from wastewater and planktonic food borne silver nanoparticles in the rainbow trout <i>Oncorhynchus mykiss</i> . <i>Science of the Total Environment</i> , 2020, 706, 135695.	3.9	26
26	Impact of wastewater-borne nanoparticles of silver and titanium dioxide on the swimming behaviour and biochemical markers of <i>Daphnia magna</i> : An integrated approach. <i>Aquatic Toxicology</i> , 2020, 220, 105404.	1.9	26
27	Protective effects of dietary L-carnitine on tilapia hybrids (<i>Oreochromis niloticus</i> x <i>Oreochromis</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 1.1 25	1.1	25
28	A critical assessment of different transmethylation procedures commonly employed in the fatty acid analysis of aquatic organisms. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 523-531.	1.0	24
29	Inter-individual variation in total fatty acid compositions of flesh of Atlantic salmon smolts-fed diets containing fish oil or vegetable oil. <i>Aquaculture Research</i> , 2007, 38, 1045-1055.	0.9	23
30	<i>Panagrellus redivivus</i> mass produced on solid media as live food for <i>Litopenaeus vannamei</i> larvae. <i>Aquaculture Research</i> , 2006, 37, 1429-1436.	0.9	22
31	Testing the bioaccumulation of manufactured nanomaterials in the freshwater bivalve <i>Corbicula fluminea</i> using a new test method. <i>Environmental Science: Nano</i> , 2020, 7, 535-553.	2.2	19
32	Incorporation and metabolism of fatty acids by desaturation and elongation in the nematode, <i>Panagrellus redivivus</i> . <i>Nematology</i> , 2004, 6, 783-795.	0.2	18
33	Testing the bioaccumulation potential of manufactured nanomaterials in the freshwater amphipod <i>Hyalella azteca</i> . <i>Chemosphere</i> , 2021, 263, 127961.	4.2	18
34	Hepatocytes as in vitro test system to investigate metabolite patterns of pesticides in farmed rainbow trout and common carp: Comparison between in vivo and in vitro and across species. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2016, 187, 62-73.	1.3	16
35	Unravelling the uptake pathway and accumulation of silver from manufactured silver nanoparticles in the freshwater amphipod <i>Hyalella azteca</i> using correlative microscopy. <i>NanoImpact</i> , 2020, 19, 100239.	2.4	16
36	Comparison of Alternative Methods for Bioaccumulation Assessment: Scope and Limitations of In Vitro Depletion Assays with Rainbow Trout and Bioconcentration Tests in the Freshwater Amphipod <i>Hyalella azteca</i> . <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1813-1825.	2.2	16

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37	Sesamin as a potential modulator of fatty acid composition in common carp (<i>Cyprinus carpio</i>). <i>Aquaculture Research</i> , 2010, 41, e851-e861.	0.9	14
38	Invertebrate Species for the Bioavailability and Accumulation Assessment of Manufactured Polymer-Based Nano- and Microplastics. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 961-974.	2.2	14
39	Bioaccumulation of hexachlorobenzene in the terrestrial isopod <i>Porcellio scaber</i> . <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 2867-2873.	2.2	12
40	Fish bioconcentration studies with column-generated analyte concentrations of highly hydrophobic organic chemicals. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 906-916.	2.2	12
41	Effects of wastewater-spiked nanoparticles of silver and titanium dioxide on survival, growth, reproduction and biochemical markers of <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2022, 839, 156079.	3.9	11
42	Are Fragrance Encapsulates Taken Up by Aquatic and Terrestrial Invertebrate Species?. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 931-943.	2.2	10
43	Effect of Fasting under Different Temperature Conditions on Nucleic Acid Ratios in the Opossum Shrimp <i>Mysis relicta</i> : a Calibration Approach. <i>Journal of Great Lakes Research</i> , 2008, 34, 461-471.	0.8	9
44	Can solid-phase microextraction replace solvent extraction for water analysis in fish bioconcentration studies with highly hydrophobic organic chemicals?. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 2887-2894.	2.2	9
45	Bioconcentration, Metabolism, and Spatial Distribution of 14 C-Labeled Laurate in the Freshwater Amphipod <i>Hyalella azteca</i> . <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 310-322.	2.2	9
46	Food web on ice: a pragmatic approach to investigate the trophic magnification of chemicals of concern. <i>Environmental Sciences Europe</i> , 2021, 33, .	2.6	9
47	Development of a regulatory testing procedure to study the metabolism of pesticides in farmed fish. <i>Pest Management Science</i> , 2016, 72, 362-370.	1.7	8
48	Ingestion of bivalve droppings by benthic invertebrates may lead to the transfer of nanomaterials in the aquatic food chain. <i>Environmental Sciences Europe</i> , 2021, 33, .	2.6	8
49	Solid-phase microextraction for bioconcentration studies according to OECD TG 305. <i>Environmental Sciences Europe</i> , 2012, 24, .	2.6	7
50	The Dessau workshop on bioaccumulation: state of the art, challenges and regulatory implications. <i>Environmental Sciences Europe</i> , 2015, 27, 34.	2.6	7
51	Dietary burden calculations relating to fish metabolism studies. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 1415-1419.	1.7	6
52	Revisiting elimination half live as an indicator for bioaccumulation in fish and terrestrial mammals. <i>Chemosphere</i> , 2018, 210, 341-346.	4.2	6
53	Investigation into feed preparation for regulatory fish metabolism studies. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 438-444.	1.7	4
54	Biomagnification of ionizable organic compounds in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Environmental Sciences Europe</i> , 2020, 32, .	2.6	3

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55	Determination of n-3 HUFA content in Atlantic salmon flesh based on the lipid content, morphometric measurements and blood fatty acid composition: A modeling approach. <i>Journal of Applied Ichthyology</i> , 2009, 25, 120-123.	0.3	2