Till Luckenbach

List of Publications by Year
in descending order

58 papers	3,014 citations	218662 26 h-index	161844 54 g-index
62 all docs	62 docs citations	62 times ranked	3866 citing authors

#	Article	IF	Citations
1	The zebrafish embryo model in environmental risk assessmentâ€"applications beyond acute toxicity testing. Environmental Science and Pollution Research, 2008, 15, 394-404.	5.3	472
2	Combined effects of temperature and cadmium on developmental parameters and biomarker responses in zebrafish (Danio rerio) embryos. Journal of Thermal Biology, 2005, 30, 7-17.	2.5	192
3	Nitromusk and Polycyclic Musk Compounds as Long-Term Inhibitors of Cellular Xenobiotic Defense Systems Mediated by Multidrug Transporters. Environmental Health Perspectives, 2005, 113, 17-24.	6.0	190
4	Emerging contaminantsâ€"pesticides, PPCPs, microbial degradation products and natural substances as inhibitors of multixenobiotic defense in aquatic organisms. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2004, 552, 101-117.	1.0	171
5	Abcb4 acts as multixenobiotic transporter and active barrier against chemical uptake in zebrafish (Danio rerio) embryos. BMC Biology, 2013, 11, 69.	3.8	153
6	Efflux Transporters: Newly Appreciated Roles in Protection against Pollutants. Environmental Science & Technology, 2008, 42, 3914-3920.	10.0	152
7	From the exposome to mechanistic understanding of chemical-induced adverse effects. Environment International, 2017, 99, 97-106.	10.0	146
8	A European perspective on alternatives to animal testing for environmental hazard identification and risk assessment. Regulatory Toxicology and Pharmacology, 2013, 67, 506-530.	2.7	139
9	Assessing the bioaccumulation potential of ionizable organic compounds: Current knowledge and research priorities. Environmental Toxicology and Chemistry, 2017, 36, 882-897.	4.3	106
10	Current advances on ABC drug transporters in fish. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 165, 28-52.	2.6	98
11	Expression patterns and organization of the hsp70 genes correlate with thermotolerance in two congener endemic amphipod species (Eulimnogammarus cyaneus and E. verrucosus) from Lake Baikal. Molecular Ecology, 2013, 22, 1416-1430.	3.9	90
12	ABCB- and ABCC-type transporters confer multixenobiotic resistance and form an environment-tissue barrier in bivalve gills. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1919-R1929.	1.8	84
13	Characterization of the multixenobiotic resistance (MXR) mechanism in embryos and larvae of the zebra mussel (Dreissena polymorpha) and studies on its role in tolerance to single and mixture combinations of toxicants. Aquatic Toxicology, 2011, 101, 78-87.	4.0	72
14	New Perspectives on Perfluorochemical Ecotoxicology:Â Inhibition and Induction of an Efflux Transporter in the Marine Mussel,Mytilus californianus. Environmental Science & Technology, 2006, 40, 5580-5585.	10.0	61
15	Fatal attraction: Synthetic musk fragrances compromise multixenobiotic defense systems in mussels. Marine Environmental Research, 2004, 58, 215-219.	2.5	60
16	Constitutive mRNA expression and protein activity levels of nine ABC efflux transporters in seven permanent cell lines derived from different tissues of rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2011, 101, 438-446.	4.0	60
17	Body Mass Parameters, Lipid Profiles and Protein Contents of Zebrafish Embryos and Effects of 2,4-Dinitrophenol Exposure. PLoS ONE, 2015, 10, e0134755.	2.5	49
18	Lake Baikal amphipods under climate change: thermalÂconstraintsÂand ecological consequences. Ecosphere, 2016, 7, e01308.	2.2	49

#	Article	IF	Citations
19	First evidence for toxic defense based on the multixenobiotic resistance (MXR) mechanism in Daphnia magna. Aquatic Toxicology, 2014, 148, 139-151.	4.0	47
20	Identification of five partial ABC genes in the liver of the Antarctic fish Trematomus bernacchii and sensitivity of ABCB1 and ABCC2 to Cd exposure. Environmental Pollution, 2010, 158, 2746-2756.	7.5	45
21	Fish early life stage tests as a tool to assess embryotoxic potentials in small streams. Hydrobiologia, 2001, 8, 355-370.	0.9	40
22	Abcb and Abcc transporter homologs are expressed and active in larvae and adults of zebra mussel and induced by chemical stress. Aquatic Toxicology, 2012, 122-123, 144-152.	4.0	39
23	Toxicity of waters from two streams to early life stages of brown trout (Salmo trutta f. fario L.), tested under semi-field conditions. Chemosphere, 2001, 45, 571-579.	8.2	34
24	Yolk Sac of Zebrafish Embryos as Backpack for Chemicals?. Environmental Science & Technology, 2020, 54, 10159-10169.	10.0	33
25	Thermal Preference Ranges Correlate with Stable Signals of Universal Stress Markers in Lake Baikal Endemic and Holarctic Amphipods. PLoS ONE, 2016, 11, e0164226.	2.5	30
26	Effects of pharmaceuticals and personal care products (PPCPs) on multixenobiotic resistance (MXR) related efflux transporter activity in zebrafish (Danio rerio) embryos. Ecotoxicology and Environmental Safety, 2017, 136, 14-23.	6.0	29
27	A first Glimpse at the genome of the Baikalian amphipod Eulimnogammarus verrucosus. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2014, 322, 177-189.	1.3	27
28	Does perfluorooctane sulfonate (PFOS) act as chemosensitizer in zebrafish embryos?. Science of the Total Environment, 2016, 548-549, 317-324.	8.0	26
29	Establishing Causality between Pollution and Effects at Different Levels of Biological Organization: The VALIMAR Project. Human and Ecological Risk Assessment (HERA), 2003, 9, 171-194.	3.4	24
30	Developmental and subcellular effects of chronic exposure to sub-lethal concentrations of ammonia, PAH and PCP mixtures in brown trout (Salmo trutta f. fario L.) early life stages. Aquatic Toxicology, 2003, 65, 39-54.	4.0	21
31	Teasing apart activities of different types of ABC efflux pumps in bivalve gills using the concepts of independent action and concentration addition. Marine Environmental Research, 2008, 66, 75-76.	2.5	21
32	Effects of ammonium-based ionic liquids and 2,4-dichlorophenol on the phospholipid fatty acid composition of zebrafish embryos. PLoS ONE, 2018, 13, e0190779.	2.5	20
33	Chemical Pollution Levels in a River Explain Site-Specific Sensitivities to Micropollutants within a Genetically Homogeneous Population of Freshwater Amphipods. Environmental Science & Technology, 2021, 55, 6087-6096.	10.0	18
34	Comparison between transcriptomic responses to short-term stress exposures of a common Holarctic and endemic Lake Baikal amphipods. BMC Genomics, 2019, 20, 712.	2.8	17
35	Uptake Kinetics and Subcellular Compartmentalization Explain Lethal but Not Sublethal Effects of Cadmium in Two Closely Related Amphipod Species. Environmental Science & Technology, 2017, 51, 7208-7218.	10.0	16
36	Elemental imaging (LA-ICP-MS) of zebrafish embryos to study the toxicokinetics of the acetylcholinesterase inhibitor naled. Analytical and Bioanalytical Chemistry, 2019, 411, 617-627.	3.7	16

#	Article	IF	Citations
37	Is chemosensitisation by environmental pollutants ecotoxicologically relevant?. Aquatic Toxicology, 2015, 167, 134-142.	4.0	15
38	Contrasting cellular stress responses of Baikalian and Palearctic amphipods upon exposure to humic substances: environmental implications. Environmental Science and Pollution Research, 2014, 21, 14124-14137.	5.3	14
39	Chemical effects on dye efflux activity in live zebrafish embryos and on zebrafish Abcb4 ATPase activity. FEBS Letters, 2021, 595, 828-843.	2.8	14
40	Identification of multi-drug resistance associated proteins MRP1 (ABCC1) and MRP3 (ABCC3) from rainbow trout (Oncorhynchus mykiss). Marine Environmental Research, 2010, 69, S7-S10.	2.5	12
41	Indication of ongoing amphipod speciation in Lake Baikal by genetic structures within endemic species. BMC Evolutionary Biology, 2019, 19, 138.	3.2	12
42	On Eulimnogammarus messerschmidtii, sp. n. (Amphipoda: Gammaridea) from Lake Baikal, Siberia, with redescription of E. cyanoides (Sowinsky) and remarks on taxonomy of the genus Eulimnogammarus . Zootaxa, 2014, 3838, 518.	0.5	11
43	Different ways to play it cool: Transcriptomic analysis sheds light on different activity patterns of three amphipod species under longâ€term cold exposure. Molecular Ecology, 2021, 30, 5735-5751.	3.9	11
44	Use of a combined effect model approach for discriminating between ABCB1- and ABCC1-type efflux activities in native bivalve gill tissue. Toxicology and Applied Pharmacology, 2016, 297, 56-67.	2.8	10
45	Title is missing!. Hydrobiologia, 2003, 490, 53-62.	2.0	7
46	Description of strongly heat-inducible heat shock protein 70 transcripts from Baikal endemic amphipods. Scientific Reports, 2019, 9, 8907.	3.3	7
47	Thermal reaction norms of key metabolic enzymes reflect divergent physiological and behavioral adaptations of closely related amphipod species. Scientific Reports, 2021, 11, 4562.	3.3	7
48	Reduced genetic diversity of freshwater amphipods in rivers with increased levels of anthropogenic organic micropollutants. Evolutionary Applications, 2022, 15, 976-991.	3.1	7
49	Identification of a putatively multixenobiotic resistance related Abcb1 transporter in amphipod species endemic to the highly pristine Lake Baikal. Environmental Science and Pollution Research, 2015, 22, 5453-5468.	5.3	5
50	The impact of chemosensitisation on bioaccumulation and sediment toxicity. Chemosphere, 2017, 186, 652-659.	8.2	5
51	Isolation and characterization of eleven novel microsatellite markers for fine-scale population genetic analyses of Gammarus pulex (Crustacea: Amphipoda). Molecular Biology Reports, 2019, 46, 6609-6615.	2.3	5
52	Low annual temperature likely prevents the Holarctic amphipod Gammarus lacustris from invading Lake Baikal. Scientific Reports, 2021, 11, 10532.	3.3	5
53	Changes of cellular stress response relatedhsp70andabcb1transcript and Hsp70 protein levels in Siberian freshwater amphipods upon exposure to cadmium chloride in the lethal concentration range. PeerJ, 2020, 8, e8635.	2.0	5
54	Synthetic Musk Compounds: Luckenbach Responds. Environmental Health Perspectives, 2005, 113, .	6.0	4

#	Article	IF	Citations
55	Proteomics reveals sex-specific heat shock response of Baikal amphipod Eulimnogammarus cyaneus. Science of the Total Environment, 2021, 763, 143008.	8.0	4
56	Transcriptome-level effects of the model organic pollutant phenanthrene and its solvent acetone in three amphipod species. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2020, 33, 100630.	1.0	2
57	Photomotor response data analysis approach to assess chemical neurotoxicity with the zebrafish embryo. ALTEX: Alternatives To Animal Experimentation, 2021, , .	1.5	2
58	Zebrafish Oatp1d1 Acts as a Cellular Efflux Transporter of the Anionic Herbicide Bromoxynil. Chemical Research in Toxicology, 2022, , .	3.3	0