

Thomas Braunbeck

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162
papers

6,742
citations

45
h-index

76
g-index

173
ext. papers

7,680
ext. citations

4.8
avg, IF

5.82
L-index

#	Paper	IF	Citations
162	Zebrafish embryos as an alternative to animal experiments--a commentary on the definition of the onset of protected life stages in animal welfare regulations. <i>Reproductive Toxicology</i> , 2012 , 33, 128-32	3.4	377
161	Transfer of benzo[a]pyrene from microplastics to Artemia nauplii and further to zebrafish via a trophic food web experiment: CYP1A induction and visual tracking of persistent organic pollutants. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1656-66	3.8	324
160	The fish embryo toxicity test as an animal alternative method in hazard and risk assessment and scientific research. <i>Aquatic Toxicology</i> , 2010 , 97, 79-87	5.1	274
159	Relevance of nano- and microplastics for freshwater ecosystems: A critical review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 110, 375-392	14.6	221
158	Towards an alternative for the acute fish LC(50) test in chemical assessment: the fish embryo toxicity test goes multi-species -- an update. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2005 , 22, 87-102	4.3	212
157	A new sediment contact assay to assess particle-bound pollutants using zebrafish (danio rerio) embryos. <i>Journal of Soils and Sediments</i> , 2003 , 3, 197-207	3.4	178
156	The use of fish cells in ecotoxicology. The report and recommendations of ECVAM Workshop 47. <i>ATLA Alternatives To Laboratory Animals</i> , 2003 , 31, 317-51	2.1	176
155	Adverse outcome pathways: opportunities, limitations and open questions. <i>Archives of Toxicology</i> , 2017 , 91, 3477-3505	5.8	174
154	Zebrafish (Danio rerio) embryos as a model for testing proteratogens. <i>Toxicology</i> , 2011 , 281, 25-36	4.4	141
153	OECD validation study to assess intra- and inter-laboratory reproducibility of the zebrafish embryo toxicity test for acute aquatic toxicity testing. <i>Regulatory Toxicology and Pharmacology</i> , 2014 , 69, 496-511	3.4	138
152	The fish embryo test (FET): origin, applications, and future. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 16247-61	5.1	136
151	Microplastic accumulation patterns and transfer of benzo[a]pyrene to adult zebrafish (Danio rerio) gills and zebrafish embryos. <i>Environmental Pollution</i> , 2018 , 235, 918-930	9.3	122
150	A European perspective on alternatives to animal testing for environmental hazard identification and risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , 2013 , 67, 506-30	3.4	121
149	Cytotoxicity of settling particulate matter and sediments of the Neckar River (Germany) during a winter flood. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 528-534	3.8	109
148	Ecotoxicological assessment of sediment, suspended matter and water samples in the upper Danube River. A pilot study in search for the causes for the decline of fish catches. <i>Environmental Science and Pollution Research</i> , 2006 , 13, 308-19	5.1	100
147	A novel contact assay for testing genotoxicity of chemicals and whole sediments in zebrafish embryos. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 2097-106	3.8	98
146	Dechlorination as a tool to improve the fish embryo toxicity test (FET) with the zebrafish (Danio rerio). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011 , 153, 91-8	3.2	97

145	Effects of 17 α -ethinylestradiol on the expression of three estrogen-responsive genes and cellular ultrastructure of liver and testes in male zebrafish. <i>Aquatic Toxicology</i> , 2003 , 62, 85-103	5.1	96
144	Description and initial evaluation of a <i>Xenopus</i> metamorphosis assay for detection of thyroid system-disrupting activities of environmental compounds. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 653-64	3.8	95
143	Activities and identification of aryl hydrocarbon receptor agonists in sediments from the Danube river. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 2009-19	4.4	83
142	Developmental effects of coumarin and the anticoagulant coumarin derivative warfarin on zebrafish (<i>Danio rerio</i>) embryos. <i>Reproductive Toxicology</i> , 2012 , 33, 133-41	3.4	81
141	DNA damage induced by genotoxicants in zebrafish (<i>Danio rerio</i>) embryos after contact exposure to freeze-dried sediment and sediment extracts from Laguna Lake (The Philippines) as measured by the comet assay. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008 , 650, 1-14	3	80
140	Changes in toxicity and Ah receptor agonist activity of suspended particulate matter during flood events at the rivers Neckar and Rhine - a mass balance approach using in vitro methods and chemical analysis. <i>Environmental Science and Pollution Research</i> , 2008 , 15, 536-53	5.1	80
139	Comparison of in vitro and in situ genotoxicity in the Danube River by means of the comet assay and the micronucleus test. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 700, 11-7	3	69
138	Spatio-temporal development of CYP1 activity in early life-stages of zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2010 , 100, 38-50	5.1	69
137	Species-specific reaction of liver ultrastructure in Zebrafish (<i>Brachydanio rerio</i>) and trout (<i>Salmo gairdneri</i>) after prolonged exposure to 4-chloroaniline. <i>Archives of Environmental Contamination and Toxicology</i> , 1990 , 19, 405-18	3.2	68
136	Thyroid histopathology assessments for the amphibian metamorphosis assay to detect thyroid-active substances. <i>Toxicologic Pathology</i> , 2009 , 37, 415-24	2.1	67
135	Evaluation of histological and molecular endpoints for enhanced detection of thyroid system disruption in <i>Xenopus laevis</i> tadpoles. <i>Toxicological Sciences</i> , 2006 , 90, 337-48	4.4	65
134	Hepatic steatosis in zebra fish (<i>Brachydanio rerio</i>) induced by long-term exposure to gamma-hexachlorocyclohexane. <i>Ecotoxicology and Environmental Safety</i> , 1990 , 19, 355-74	7	65
133	Induction of biotransformation in the liver of Eel (<i>Anguilla anguilla</i> L.) by sublethal exposure to dinitro-o-cresol: an ultrastructural and biochemical study. <i>Ecotoxicology and Environmental Safety</i> , 1991 , 21, 109-27	7	63
132	Biological and chemical determination of dioxin-like compounds in sediments by means of a sediment triad approach in the catchment area of the river Neckar. <i>Ecotoxicology</i> , 2002 , 11, 323-36	2.9	62
131	On the relevance of genotoxicity for fish populations II: genotoxic effects in zebrafish (<i>Danio rerio</i>) exposed to 4-nitroquinoline-1-oxide in a complete life-cycle test. <i>Aquatic Toxicology</i> , 2004 , 68, 27-37	5.1	61
130	Comparative genotoxicity testing of rhine river sediment extracts using the comet assay with permanent fish cell lines (rtg-2 and rtl-w1) and the ames test*. <i>Journal of Soils and Sediments</i> , 2004 , 4, 84-94	3.4	58
129	Sediment genotoxicity in the Tiet River (S \tilde{a} Paulo, Brazil): in vitro comet assay versus in situ micronucleus assay studies. <i>Ecotoxicology and Environmental Safety</i> , 2009 , 72, 1842-8	7	57
128	The maturity index as a tool to facilitate the interpretation of changes in vitellogenin production and sex ratio in the Fish Sexual Development Test. <i>Aquatic Toxicology</i> , 2013 , 128-129, 34-42	5.1	56

127	Reversibility of endocrine disruption in zebrafish (<i>Danio rerio</i>) after discontinued exposure to the estrogen 17 β ethinylestradiol. <i>Toxicology and Applied Pharmacology</i> , 2014 , 278, 230-7	4.6	55
126	The endocrine disrupting potential of sediments from the Upper Danube River (Germany) as revealed by in vitro bioassays and chemical analysis. <i>Environmental Science and Pollution Research</i> , 2011 , 18, 446-60	5.1	54
125	Combined in situ and in vitro assessment of the estrogenic activity of sewage and surface water samples. <i>Toxicological Sciences</i> , 2003 , 75, 57-65	4.4	54
124	Hepatocellular adaptation to extreme nutritional conditions in ide, <i>Leuciscus idus melanotus</i> L. (Cyprinidae). A morphofunctional analysis. <i>Fish Physiology and Biochemistry</i> , 1988 , 5, 79-97	2.7	53
123	Endocrine disruption of water and sediment extracts in a non-radioactive dot blot/RNase protection-assay using isolated hepatocytes of rainbow trout. <i>Environmental Science and Pollution Research</i> , 2005 , 12, 347-60	5.1	52
122	Quantitative assessment of the embryotoxic potential of NSO-heterocyclic compounds using zebrafish (<i>Danio rerio</i>). <i>Reproductive Toxicology</i> , 2012 , 33, 224-32	3.4	50
121	Differentiation between bioavailable and total hazard potential of sediment-induced DNA fragmentation as measured by the comet assay with Zebrafish embryos. <i>Journal of Soils and Sediments</i> , 2007 , 7, 377-387	3.4	49
120	Changes in toxicity and genotoxicity of industrial sewage sludge samples containing nitro- and amino-aromatic compounds following treatment in bioreactors with different oxygen regimes. <i>Environmental Science and Pollution Research</i> , 2004 , 11, 313-20	5.1	47
119	A novel statistical approach for the evaluation of comet assay data. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008 , 652, 38-45	3	46
118	Size does matter - Determination of the critical molecular size for the uptake of chemicals across the chorion of zebrafish (<i>Danio rerio</i>) embryos. <i>Aquatic Toxicology</i> , 2017 , 185, 1-10	5.1	45
117	Toxicity, dioxin-like activities, and endocrine effects of DDT metabolites--DDA, DDMU, DDMS, and DDCN. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 403-15	5.1	45
116	Membrane Dialysis Extraction (MDE): A Novel Approach for Extracting Toxicologically Relevant Hydrophobic Organic Compounds from Soils and Sediments for Assessment in Biotests. <i>Journal of Soils and Sediments</i> , 2006 , 6, 20-29	3.4	45
115	Decline in reproductive success, sex reversal, and developmental alterations in Japanese medaka (<i>Oryzias latipes</i>) after continuous exposure to octylphenol. <i>Ecotoxicology and Environmental Safety</i> , 2002 , 51, 187-96	7	45
114	Ultrastructure of hepatocytes in golden ide (<i>Leuciscus idus melanotus</i> L.; Cyprinidae: Teleostei) during thermal adaptation. <i>Anatomy and Embryology</i> , 1987 , 175, 303-13		45
113	Adaptive changes of liver composition and structure in golden ide during winter acclimatization. <i>The Journal of Experimental Zoology</i> , 1990 , 255, 171-185		43
112	Zebrafish teratogenicity test with metabolic activation (mDarT): effects of phase I activation of acetaminophen on zebrafish <i>Danio rerio</i> embryos. <i>Toxicology</i> , 2010 , 275, 36-49	4.4	42
111	Evaluation of bis(tri-n-butyltin)oxide (TBTO) neurotoxicity in rainbow trout (<i>Oncorhynchus mykiss</i>). I. Behaviour, weight increase, and tin content. <i>Aquatic Toxicology</i> , 1994 , 30, 189-197	5.1	42
110	Changes in toxicity and dioxin-like activity of sediments from the Tiet \ddot{u} River (S \ddot{a} Paulo, Brazil). <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 550-8	7	41

109	Some heterocyclic aromatic compounds are Ah receptor agonists in the DR-CALUX assay and the EROD assay with RTL-W1 cells. <i>Environmental Science and Pollution Research</i> , 2011 , 18, 1297-304	5.1	38
108	Application of a sediment quality triad and different statistical approaches (Hasse diagrams and fuzzy logic) for the comparative evaluation of small streams. <i>Ecotoxicology</i> , 2002 , 11, 311-21	2.9	38
107	PAH toxicity at aqueous solubility in the fish embryo test with Danio rerio using passive dosing. <i>Chemosphere</i> , 2014 , 112, 77-84	8.4	35
106	Persistence of endocrine disruption in zebrafish (Danio rerio) after discontinued exposure to the androgen 17 β -trenbolone. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 2488-96	3.8	35
105	Impact of contaminants bound to suspended particulate matter in the context of flood events. <i>Journal of Soils and Sediments</i> , 2010 , 10, 1174-1185	3.4	34
104	Genotoxicity of platinum in embryos of zebrafish (Danio rerio) and ramshorn snail (Marisa cornuarietis). <i>Science of the Total Environment</i> , 2011 , 409, 2114-9	10.2	33
103	Alterations along the Hypothalamic-Pituitary-Thyroid Axis of the Zebrafish (Danio rerio) after Exposure to Propylthiouracil. <i>Journal of Thyroid Research</i> , 2011 , 2011, 376243	2.6	33
102	The project VALIMAR (VALidation of bioMARKers for the assessment of small stream pollution): objectives, experimental design, summary of results, and recommendations for the application of biomarkers in risk assessment. <i>Hydrobiologia</i> , 2001 , 8, 161-178		33
101	Assessment of urban stream sediment pollutants entering estuaries using chemical analysis and multiple bioassays to characterise biological activities. <i>Science of the Total Environment</i> , 2017 , 593-594, 498-507	10.2	32
100	Effects of the anti-thyroidal compound potassium-perchlorate on the thyroid system of the zebrafish. <i>Aquatic Toxicology</i> , 2012 , 109, 47-58	5.1	32
99	Cytological alterations in fish hepatocytes following in vivo and in vitro sublethal exposure to xenobiotics: structural biomarkers of environmental contamination 1998 , 61-140		32
98	Sediment-contact fish embryo toxicity assay with Danio rerio to assess particle-bound pollutants in the Tiet \ddot{e} River Basin (S \ddot{a} o Paulo, Brazil). <i>Ecotoxicology and Environmental Safety</i> , 2011 , 74, 1951-9	7	30
97	In vivo EROD assays with the zebrafish (Danio rerio) as rapid screening tools for the detection of dioxin-like activity. <i>Science of the Total Environment</i> , 2017 , 590-591, 269-280	10.2	29
96	Histological, enzymatic and chemical analyses of the potential effects of differently sized microplastic particles upon long-term ingestion in zebrafish (Danio rerio). <i>Marine Pollution Bulletin</i> , 2020 , 153, 111022	6.7	29
95	A combined DNA-microarray and mechanism-specific toxicity approach with zebrafish embryos to investigate the pollution of river sediments. <i>Reproductive Toxicology</i> , 2012 , 33, 245-53	3.4	29
94	Oxygen requirements of zebrafish (Danio rerio) embryos in embryo toxicity tests with environmental samples. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011 , 153, 318-27	3.2	29
93	Cytological alterations in isolated hepatocytes from rainbow trout (Oncorhynchus mykiss) exposed in vitro to 4-chloroaniline. <i>Aquatic Toxicology</i> , 1993 , 25, 83-110	5.1	29
92	Acetylcholinesterase in zebrafish embryos as a tool to identify neurotoxic effects in sediments. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 16329-39	5.1	27

91	Contribution of priority PAHs and POPs to Ah receptor-mediated activities in sediment samples from the River Elbe Estuary, Germany. <i>PLoS ONE</i> , 2013 , 8, e75596	3-7	27
90	Low-dose effects and biphasic effect profiles: is trenbolone a genotoxicant?. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2011 , 723, 152-7	3	27
89	Expression of sodium-iodide symporter mRNA in the thyroid gland of <i>Xenopus laevis</i> tadpoles: developmental expression, effects of antithyroidal compounds, and regulation by TSH. <i>Journal of Endocrinology</i> , 2006 , 190, 157-70	4-7	27
88	Analysis of tail coiling activity of zebrafish (<i>Danio rerio</i>) embryos allows for the differentiation of neurotoxicants with different modes of action. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 186, 109734	3-4	26
87	Investigation on soil contamination at recently inundated and non-inundated sites. <i>Journal of Soils and Sediments</i> , 2011 , 11, 82-92	3-4	26
86	Tox-Box: securing drops of life - an enhanced health-related approach for risk assessment of drinking water in Germany. <i>Environmental Sciences Europe</i> , 2013 , 25,	5	24
85	The impact of extraction methodologies on the toxicity of sediments in the zebrafish (<i>Danio rerio</i>) embryo test. <i>Journal of Soils and Sediments</i> , 2011 , 11, 352-363	3-4	24
84	Assessment of fish health status in the Upper Danube River by investigation of ultrastructural alterations in the liver of barbel <i>Barbus barbus</i> . <i>Diseases of Aquatic Organisms</i> , 2010 , 88, 235-48	1-7	24
83	DanToxB novel joint research project using zebrafish (<i>Danio rerio</i>) to identify specific toxicity and molecular modes of action of sediment-bound pollutants. <i>Journal of Soils and Sediments</i> , 2010 , 10, 714-717	3-4	22
82	Untersuchungen zum Ökotoxikologischen Schädigungspotenzial und Erosionsrisiko von kontaminierten Sedimenten in staugeregelten Flüssen. <i>Environmental Sciences Europe</i> , 2003 , 15, 5-12		22
81	Evaluation of bis(tri-n-butyltin)oxide (TBTO) neurotoxicity in rainbow trout (<i>Oncorhynchus mykiss</i>). II. Ultrastructural diagnosis and tin localization by energy filtering transmission electron microscopy (EFTEM). <i>Aquatic Toxicology</i> , 1994 , 30, 199-213	5-1	22
80	Establishing Causality between Pollution and Effects at Different Levels of Biological Organization: The VALIMAR Project. <i>Human and Ecological Risk Assessment (HERA)</i> , 2003 , 9, 171-194	4-9	21
79	Sublethal effects of prolonged exposure to disulfoton in rainbow trout (<i>Oncorhynchus mykiss</i>): cytological alterations in the liver by a potent acetylcholine esterase inhibitor. <i>Ecotoxicology and Environmental Safety</i> , 1996 , 34, 43-55	7	21
78	Does perfluorooctane sulfonate (PFOS) act as chemosensitizer in zebrafish embryos?. <i>Science of the Total Environment</i> , 2016 , 548-549, 317-324	10-2	20
77	Preexposure temperature acclimation and diet as modifying factors for the tolerance of golden ide (<i>Leuciscus idus melanotus</i>) to short-term exposure to 4-chloroaniline. <i>Ecotoxicology and Environmental Safety</i> , 1992 , 24, 72-94	7	20
76	Prochloraz causes irreversible masculinization of zebrafish (<i>Danio rerio</i>). <i>Environmental Science and Pollution Research</i> , 2015 , 22, 16417-22	5-1	19
75	Adverse effects in the fish embryo acute toxicity (FET) test: a catalogue of unspecific morphological changes versus more specific effects in zebrafish (<i>Danio rerio</i>) embryos. <i>Environmental Sciences Europe</i> , 2020 , 32,	5	19
74	Norfluoxetine Is the Only Metabolite of Fluoxetine in Zebrafish (<i>Danio rerio</i>) Embryos That Accumulates at Environmentally Relevant Exposure Scenarios. <i>Environmental Science & Technology</i> , 2020 , 54, 4200-4209	10-3	19

73	Cartilage and bone malformations in the head of zebrafish (<i>Danio rerio</i>) embryos following exposure to disulfiram and acetic acid hydrazide. <i>Toxicology and Applied Pharmacology</i> , 2013 , 268, 221-314.6	19
72	A fuzzy logic-classification of sediments based on data from in vitro biotests. <i>Journal of Soils and Sediments</i> , 2009 , 9, 168-179	3.4 18
71	An International Perspective on the Tools and Concepts for Effluent Toxicity Assessments in the Context of Animal Alternatives: Reduction in Vertebrate Use. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2745-2757	3.8 18
70	Time-course of coiling activity in zebrafish (<i>Danio rerio</i>) embryos exposed to ethanol as an endpoint for developmental neurotoxicity (DNT) - Hidden potential and underestimated challenges. <i>Chemosphere</i> , 2019 , 235, 12-20	8.4 17
69	The tox is in the detail: technical fundamentals for designing, performing, and interpreting experiments on toxicity of microplastics and associated substances. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 22292-22318	5.1 17
68	Modulation of DNA Repair Systems in Blind Cavefish during Evolution in Constant Darkness. <i>Current Biology</i> , 2018 , 28, 3229-3243.e4	6.3 17
67	Environmental effect assessment for sexual endocrine-disrupting chemicals: Fish testing strategy. <i>Integrated Environmental Assessment and Management</i> , 2010 , 6, 653-62	2.5 16
66	Transformation Products of Fluoxetine Formed by Photodegradation in Water and Biodegradation in Zebrafish Embryos (<i>Danio rerio</i>). <i>Environmental Science & Technology</i> , 2019 , 53, 7400-7409	10.3 15
65	Bioavailability of microplastic-bound pollutants in vitro: The role of adsorbate lipophilicity and surfactants. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019 , 221, 59-67	3.2 15
64	Evaluation of the hazard potentials of river suspended particulate matter and floodplain soils in the Rhine basin using chemical analysis and in vitro bioassays. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 14606-20	5.1 15
63	Modification and quantification of in vivo EROD live-imaging with zebrafish (<i>Danio rerio</i>) embryos to detect both induction and inhibition of CYP1A. <i>Science of the Total Environment</i> , 2018 , 615, 330-347	10.2 15
62	Reproductive and genotoxic effects in zebrafish after chronic exposure to methyl methanesulfonate in a multigeneration study. <i>Ecotoxicology</i> , 2013 , 22, 825-37	2.9 15
61	Interacting effects of diet and environmental temperature on biochemical parameters in the liver of <i>Leuciscus idus melanotus</i> (Cyprinidae: Teleostei). <i>Fish Physiology and Biochemistry</i> , 1988 , 5, 9-19	2.7 15
60	Multi-Laboratory Hazard Assessment of Contaminated Microplastic Particles by Means of Enhanced Fish Embryo Test With the Zebrafish (<i>Danio rerio</i>). <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8 14
59	Comparative live-imaging of in vivo EROD (ethoxyresorufin-O-deethylase) induction in zebrafish (<i>Danio rerio</i>) and fathead minnow (<i>Pimephales promelas</i>) embryos after exposure to PAHs and river sediment extracts. <i>Science of the Total Environment</i> , 2018 , 621, 827-838	10.2 14
58	Influence of Highland and production-oriented cattle breeds on pasture vegetation: A pairwise assessment across broad environmental gradients. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 284, 106585	5.7 14
57	(Eco)toxicological effects of 2,4,7,9-tetramethyl-5-decyne-4,7-diol (TMDD) in zebrafish (<i>Danio rerio</i>) and permanent fish cell cultures. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 8233-41	5.1 14
56	Ökotoxikologische Untersuchung von Sedimenten und Schwebstoffen. <i>Environmental Sciences Europe</i> , 2002 , 14, 132-137	14

55	Cytotoxicity of settling particulate matter and sediments of the Neckar River (Germany) during a winter flood 2000 , 19, 528		14
54	An optimized method to assess ototoxic effects in the lateral line of zebrafish (<i>Danio rerio</i>) embryos. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017 , 193, 18-29 ²		13
53	Impacts of different exposure scenarios on transcript abundances in <i>Danio rerio</i> embryos when investigating the toxicological burden of riverine sediments. <i>PLoS ONE</i> , 2014 , 9, e106523	3.7	13
52	Isolation and cultivation of teleost hepatocytes 2000 , 49-71		13
51	The EU-ToxRisk method documentation, data processing and chemical testing pipeline for the regulatory use of new approach methods. <i>Archives of Toxicology</i> , 2020 , 94, 2435-2461	5.8	12
50	Choosy grazers: Influence of plant traits on forage selection by three cattle breeds. <i>Functional Ecology</i> , 2020 , 34, 980-992	5.6	11
49	In search of a comprehensible set of endpoints for the routine monitoring of neurotoxicity in vertebrates: sensory perception and nerve transmission in zebrafish (<i>Danio rerio</i>) embryos. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 4066-4084	5.1	11
48	Comparison of zebrafish (<i>Danio rerio</i>) and fathead minnow (<i>Pimephales promelas</i>) as test species in the Fish Sexual Development Test (FSDT). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012 , 155, 407-15	3.2	11
47	Assessment of genotoxicity in gonads, liver and gills of zebrafish (<i>Danio rerio</i>) by use of the comet assay and micronucleus test after in vivo exposure to methyl methanesulfonate. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2013 , 91, 89-95	2.7	10
46	Alterations of selected metabolic enzymes in fish following long-term exposure to contaminated streams. <i>Hydrobiologia</i> , 2001 , 8, 299-318		9
45	The role of the heart-body and of the extravasal tissue in disposal of foreign cells in two polychaete annelids. <i>Tissue and Cell</i> , 1984 , 16, 557-63	2.7	9
44	Limitations and uncertainties of acute fish toxicity assessments can be reduced using alternative methods. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021 , 38, 20-32	4.3	9
43	Microplastics and sorbed contaminants - Trophic exposure in fish sensitive early life stages. <i>Marine Environmental Research</i> , 2020 , 161, 105126	3.3	9
42	Do environmentally relevant concentrations of fluoxetine and citalopram impair stress-related behavior in zebrafish (<i>Danio rerio</i>) embryos?. <i>Chemosphere</i> , 2020 , 261, 127753	8.4	9
41	Grazing Allometry: Anatomy, Movement, and Foraging Behavior of Three Cattle Breeds of Different Productivity. <i>Frontiers in Veterinary Science</i> , 2020 , 7, 494	3.1	9
40	Assessment of cytotoxicity, genotoxicity and 7-ethoxyresorufin-O-deethylase (EROD) induction in sediment extracts from New Zealand urban estuaries. <i>Ecotoxicology</i> , 2017 , 26, 211-226	2.9	8
39	Improving the in vitro ethoxyresorufin-O-deethylase (EROD) assay with RTL-W1 by metabolic normalization and use of 6-hapthoflavone as the reference substance. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014 , 164, 27-34	3.2	8
38	Zelle und Umwelt - Wie wirken sich Umweltgifte auf Zellen aus?. <i>Biologie in Unserer Zeit</i> , 1989 , 19, 127-132.1		8

37	Development of a generic zebrafish embryo PBPK model and application to the developmental toxicity assessment of valproic acid analogs. <i>Reproductive Toxicology</i> , 2020 , 93, 219-229	3.4	7
36	Intrafollicular thyroid hormone staining in whole-mount zebrafish (<i>Danio rerio</i>) embryos for the detection of thyroid hormone synthesis disruption. <i>Fish Physiology and Biochemistry</i> , 2018 , 44, 997-1010 ²⁻⁷		7
35	Comparison of different exhaustive and biomimetic extraction techniques for chemical and biological analysis of polycyclic aromatic compounds in river sediments. <i>Journal of Soils and Sediments</i> , 2012 , 12, 1419-1434	3.4	7
34	Microplastic testing in vitro: Realistic loading of pollutants, surfactant-free solid surface-dosing and bioanalytical detection using a sensitivity-optimized EROD assay. <i>Toxicology in Vitro</i> , 2019 , 54, 194-201	3.6	7
33	Does hepatotoxicity interfere with endocrine activity in zebrafish (<i>Danio rerio</i>)?. <i>Chemosphere</i> , 2020 , 238, 124589	8.4	7
32	DDT und Metaboliten in Sedimenten Berliner Gewässer. <i>Environmental Sciences Europe</i> , 2003 , 15, 71-77		6
31	Assessment of water and sediment contamination in small streams by means of cytological and biochemical alterations in isolated rainbow trout (<i>Oncorhynchus mykiss</i>) hepatocytes. <i>Hydrobiologia</i> , 2001 , 8, 337-354		6
30	Neurotoxic effects in zebrafish embryos by valproic acid and nine of its analogues: the fish-mouse connection?. <i>Archives of Toxicology</i> , 2021 , 95, 641-657	5.8	6
29	Light and scanning electron microscopic cytopathology of 3, 5-dichlorophenol in the permanent fish cell line RTG-2. <i>Ecotoxicology and Environmental Safety</i> , 1998 , 41, 298-306	7	5
28	Inducibility of cytochrome P450-mediated 7-methoxycoumarin-O-demethylase activity in zebrafish (<i>Danio rerio</i>) embryos. <i>Aquatic Toxicology</i> , 2020 , 225, 105540	5.1	4
27	Genetically engineered zebrafish liver (ZF-L) cells as an in vitro source for zebrafish acetylcholinesterase (zfAChE) for the use in AChE inhibition assays. <i>Toxicology in Vitro</i> , 2018 , 52, 52-59	3.6	4
26	Effect of pH on the toxicity of fumonisins towards the RTL-W1 cell line and zebrafish (<i>Danio rerio</i>) embryos. <i>Toxicology Letters</i> , 2019 , 313, 101-107	4.4	4
25	Assessment of cytotoxicity and AhR-mediated toxicity in tropical fresh water sediments under the influence of an oil refinery. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 12566-75	5.1	3
24	In vivo fluorescence-based characterization of cytochrome P450 activity during embryonic development of zebrafish (<i>Danio rerio</i>). <i>Ecotoxicology and Environmental Safety</i> , 2020 , 192, 110330	7	3
23	Gene-TEQ--a standardized comparative assessment of effects in the comet assay using genotoxicity equivalents. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 1325-34		3
22	Application of human and rat liver microsomes in teratogenicity testing using zebrafish <i>Danio rerio</i> embryos (mDarT). <i>Toxicology Letters</i> , 2008 , 180, S96-S97	4.4	3
21	Microplastic particles reduce EROD-induction specifically by highly lipophilic compounds in RTL-W1 cells. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 189, 110041	7	3
20	Microplastic-associated trophic transfer of benzo(k)fluoranthene in a limnic food web: Effects in two freshwater invertebrates (<i>Daphnia magna</i> , <i>Chironomus riparius</i>) and zebrafish (<i>Danio rerio</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020 , 237, 108849	3.2	3

19	Ruthenium complexes show promise when submitted to toxicological safety tests using alternative methodologies. <i>European Journal of Medicinal Chemistry</i> , 2021 , 216, 113262	6.8	3
18	Cytochrome P450-dependent biotransformation capacities in embryonic, juvenile and adult stages of zebrafish (<i>Danio rerio</i>)-a state-of-the-art review. <i>Archives of Toxicology</i> , 2021 , 95, 2299-2334	5.8	3
17	Ultrastructural Alterations in Thyrocytes of Zebrafish (<i>Danio rerio</i>) after Exposure to Propylthiouracil and Perchlorate. <i>Toxicologic Pathology</i> , 2017 , 45, 649-662	2.1	2
16	Zebrafish embryos as a model in general toxicology. <i>Toxicology Letters</i> , 2009 , 189, S48-S49	4.4	2
15	Teratogenic effects of metabolically activated trimethadione in zebrafish embryos (<i>Danio rerio</i>). <i>Toxicology Letters</i> , 2009 , 189, S143	4.4	2
14	Extractable organic matter of standard reference material 1649a influences immunological response induced by pathogen-associated molecular patterns. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 1257-67	5.1	2
13	Weight-of-Evidence-Studie zur Sedimentbelastung des TietlRiver in Brasilien. <i>Environmental Sciences Europe</i> , 2006 , 18, 70		2
12	Specificity of time- and dose-dependent morphological endpoints in the fish embryo acute toxicity (FET) test for substances with diverse modes of action: the search for a "fingerprint". <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	2
11	A read-across case study on chronic toxicity of branched carboxylic acids (1): Integration of mechanistic evidence from new approach methodologies (NAMs) to explore a common mode of action. <i>Toxicology in Vitro</i> , 2021 , 79, 105269	3.6	2
10	Multistate models of developmental toxicity: Application to valproic acid-induced malformations in the zebrafish embryo. <i>Toxicology and Applied Pharmacology</i> , 2021 , 414, 115424	4.6	2
9	Über die Notwendigkeit der wirkungsorientierten Analytik in einer umfassenden Wasserforschung. <i>Environmental Sciences Europe</i> , 2009 , 21, 235-237		1
8	Podiumsdiskussion "New Blood in Ecotoxicology" <i>Environmental Sciences Europe</i> , 2004 , 16, 149-150		1
7	Rethinking the relevance of microplastics as vector for anthropogenic contaminants: Adsorption of toxicants to microplastics during exposure in a highly polluted stream - Analytical quantification and assessment of toxic effects in zebrafish (<i>Danio rerio</i>). <i>Science of the Total Environment</i> , 2021 , 816, 151640	10.2	1
6	Biomarker responses in zebrafish (<i>Danio rerio</i>) following long-term exposure to microplastic-associated chlorpyrifos and benzo(k)fluoranthene.. <i>Aquatic Toxicology</i> , 2022 , 245, 106120	5.1	1
5	Beyond the behavioural phenotype: Uncovering mechanistic foundations in aquatic eco-neurotoxicology.. <i>Science of the Total Environment</i> , 2022 , 154584	10.2	1
4	Development of a capillary electrophoresis-mass spectrometry method for the analysis of metformin and its transformation product guanylurea in biota. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 4985-4996	4.4	0
3	Pre-validation of choriogenin H transgenic medaka eleutheroembryos as a quantitative estrogenic activity test method. <i>Analytical Biochemistry</i> , 2021 , 629, 114311	3.1	0
2	A new sediment contact assay to assess particle-bound pollutants using zebrafish (<i>Danio rerio</i>) embryos. <i>Journal of Soils and Sediments</i> , 2004 , 4, 94-94	3.4	

- 1 Insights on Ecotoxicological Effects of Microplastics in Marine Ecosystems: The EPHEMARE Project. *Springer Water*, **2020**, 12-19 0.3