

Stefan Scholz

List of Publications by Year in descending order

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89
papers

5,712
citations

101543

36
h-index

76900

74
g-index

91
all docs

91
docs citations

91
times ranked

6904
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 128-132.	2.9	491
2	The zebrafish embryo model in environmental risk assessment – applications beyond acute toxicity testing. <i>Environmental Science and Pollution Research</i> , 2008, 15, 394-404.	5.3	472
3	Benchmarking Organic Micropollutants in Wastewater, Recycled Water and Drinking Water with In Vitro Bioassays. <i>Environmental Science & Technology</i> , 2014, 48, 1940-1956.	10.0	367
4	Applying Adverse Outcome Pathways (AOPs) to support Integrated Approaches to Testing and Assessment (IATA). <i>Regulatory Toxicology and Pharmacology</i> , 2014, 70, 629-640.	2.7	291
5	17- β -ethinylestradiol affects reproduction, sexual differentiation and aromatase gene expression of the medaka (<i>Oryzias latipes</i>). <i>Aquatic Toxicology</i> , 2000, 50, 363-373.	4.0	219
6	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.	2.7	192
7	Molecular biomarkers of endocrine disruption in small model fish. <i>Molecular and Cellular Endocrinology</i> , 2008, 293, 57-70.	3.2	170
8	An ecotoxicological view on neurotoxicity assessment. <i>Environmental Sciences Europe</i> , 2018, 30, 46.	5.5	168
9	Di-myo-inositol-1, 1 β -phosphate: A new inositol phosphate isolated from <i>Pyrococcus woesei</i> . <i>FEBS Letters</i> , 1992, 306, 239-242.	2.8	159
10	From the exposome to mechanistic understanding of chemical-induced adverse effects. <i>Environment International</i> , 2017, 99, 97-106.	10.0	146
11	A European perspective on alternatives to animal testing for environmental hazard identification and risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , 2013, 67, 506-530.	2.7	139
12	Mixture Toxicity Revisited from a Toxicogenomic Perspective. <i>Environmental Science & Technology</i> , 2012, 46, 2508-2522.	10.0	135
13	Predicting Adult Fish Acute Lethality with the Zebrafish Embryo: Relevance of Test Duration, Endpoints, Compound Properties, and Exposure Concentration Analysis. <i>Environmental Science & Technology</i> , 2012, 46, 9690-9700.	10.0	123
14	Toxicity of Tungsten Carbide and Cobalt-Doped Tungsten Carbide Nanoparticles in Mammalian Cells <i>in Vitro</i> . <i>Environmental Health Perspectives</i> , 2009, 117, 530-536.	6.0	121
15	Differential gene expression as a toxicant-sensitive endpoint in zebrafish embryos and larvae. <i>Aquatic Toxicology</i> , 2007, 81, 355-364.	4.0	112
16	Effects of Endocrine Disrupters on Sexual, Gonadal Development in Fish. <i>Sexual Development</i> , 2009, 3, 136-151.	2.0	111
17	Building and Applying Quantitative Adverse Outcome Pathway Models for Chemical Hazard and Risk Assessment. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1850-1865.	4.3	105
18	Fish Embryo Toxicity Test: Identification of Compounds with Weak Toxicity and Analysis of Behavioral Effects To Improve Prediction of Acute Toxicity for Neurotoxic Compounds. <i>Environmental Science & Technology</i> , 2015, 49, 7002-7011.	10.0	99

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19	Applicability of the fish embryo acute toxicity (FET) test (OECD 236) in the regulatory context of Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH). <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 657-670.	4.3	97
20	Bacterial lipopolysaccharides induce genes involved in the innate immune response in embryos of the zebrafish (<i>Danio rerio</i>). <i>Fish and Shellfish Immunology</i> , 2007, 23, 901-905.	3.6	90
21	Induction of vitellogenin in vivo and in vitro in the model teleost medaka (<i>Oryzias latipes</i>): comparison of gene expression and protein levels. <i>Marine Environmental Research</i> , 2004, 57, 235-244.	2.5	87
22	Agglomeration of tungsten carbide nanoparticles in exposure medium does not prevent uptake and toxicity toward a rainbow trout gill cell line. <i>Aquatic Toxicology</i> , 2009, 93, 91-99.	4.0	82
23	Adverse Outcome Pathways during Early Fish Development: A Conceptual Framework for Identification of Chemical Screening and Prioritization Strategies. <i>Toxicological Sciences</i> , 2011, 123, 349-358.	3.1	79
24	Automated Morphological Feature Assessment for Zebrafish Embryo Developmental Toxicity Screens. <i>Toxicological Sciences</i> , 2019, 167, 438-449.	3.1	79
25	Development of a general baseline toxicity QSAR model for the fish embryo acute toxicity test. <i>Chemosphere</i> , 2016, 164, 164-173.	8.2	71
26	Alternatives to <i>in vivo</i> tests to detect endocrine disrupting chemicals (EDCs) in fish and amphibians – screening for estrogen, androgen and thyroid hormone disruption. <i>Critical Reviews in Toxicology</i> , 2013, 43, 45-72.	3.9	60
27	Hypo- or hyperactivity of zebrafish embryos provoked by neuroactive substances: a review on how experimental parameters impact the predictability of behavior changes. <i>Environmental Sciences Europe</i> , 2019, 31, .	5.5	50
28	Developing a list of reference chemicals for testing alternatives to whole fish toxicity tests. <i>Aquatic Toxicology</i> , 2008, 90, 128-137.	4.0	49
29	Zebrafish embryos as an alternative model for screening of drug-induced organ toxicity. <i>Archives of Toxicology</i> , 2013, 87, 767-769.	4.2	49
30	Gene expression analysis in zebrafish embryos: A potential approach to predict effect concentrations in the fish early life stage test. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 1970-1978.	4.3	46
31	Endocrine, teratogenic and neurotoxic effects of cyanobacteria detected by cellular in vitro and zebrafish embryos assays. <i>Chemosphere</i> , 2015, 120, 321-327.	8.2	46
32	Hormonal Induction and Stability of Monosex Populations in the Medaka (<i>Oryzias latipes</i>): Expression of Sex-Specific Marker Genes. <i>Biology of Reproduction</i> , 2003, 69, 673-678.	2.7	42
33	Tungsten carbide cobalt nanoparticles exert hypoxia-like effects on the gene expression level in human keratinocytes. <i>BMC Genomics</i> , 2010, 11, 65.	2.8	42
34	Identification and Characterization of Androgen-Responsive Genes in Zebrafish Embryos. <i>Environmental Science & Technology</i> , 2015, 49, 11789-11798.	10.0	42
35	Synthesis and biological evaluation of SANT-2 and analogues as inhibitors of the hedgehog signaling pathway. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 4943-4954.	3.0	41
36	Transgenic (<i>cyp19a1b</i> -GFP) zebrafish embryos as a tool for assessing combined effects of oestrogenic chemicals. <i>Aquatic Toxicology</i> , 2013, 138-139, 88-97.	4.0	39

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37	Retinoid-like activity and teratogenic effects of cyanobacterial exudates. <i>Aquatic Toxicology</i> , 2014, 155, 283-290.	4.0	37
38	DRomics: A Turnkey Tool to Support the Use of the Dose-Response Framework for Omics Data in Ecological Risk Assessment. <i>Environmental Science & Technology</i> , 2018, 52, 14461-14468.	10.0	37
39	Identification and evaluation of cyp1a transcript expression in fish as molecular biomarker for petroleum contamination in tropical fresh water ecosystems. <i>Aquatic Toxicology</i> , 2011, 103, 46-52.	4.0	36
40	Induction of CYP1A in Primary Cultures of Rainbow Trout (<i>Oncorhynchus mykiss</i>) Liver Cells: Concentration-Response Relationships of Four Model Substances. <i>Ecotoxicology and Environmental Safety</i> , 1999, 43, 252-260.	6.0	35
41	Effect-directed analysis for estrogenic compounds in a fluvial sediment sample using transgenic cyp19a1b-GFP zebrafish embryos. <i>Aquatic Toxicology</i> , 2014, 154, 221-229.	4.0	34
42	Yolk Sac of Zebrafish Embryos as Backpack for Chemicals?. <i>Environmental Science & Technology</i> , 2020, 54, 10159-10169.	10.0	33
43	Zebrafish embryo tolerance to environmental stress factors- Concentration-dose response analysis of oxygen limitation, pH, and UV-light irradiation. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 682-690.	4.3	32
44	Naringenin-type flavonoids show different estrogenic effects in mammalian and teleost test systems. <i>Biochemical and Biophysical Research Communications</i> , 2005, 326, 909-916.	2.1	30
45	Transcriptional Response of Zebrafish Embryos Exposed to Neurotoxic Compounds Reveals a Muscle Activity Dependent hspb11 Expression. <i>PLoS ONE</i> , 2011, 6, e29063.	2.5	30
46	Development of a monoclonal antibody for ELISA of CYP1A in primary cultures of rainbow trout <i>Oncorhynchus mykiss</i> hepatocytes. <i>Biomarkers</i> , 1997, 2, 287-294.	1.9	29
47	Differential sensitivity in embryonic stages of the zebrafish (<i>Danio rerio</i>): The role of toxicokinetics for stage-specific susceptibility for azinphos-methyl lethal effects. <i>Aquatic Toxicology</i> , 2015, 166, 36-41.	4.0	29
48	Cellular Uptake Kinetics of Neutral and Charged Chemicals in <i>in Vitro</i> Assays Measured by Fluorescence Microscopy. <i>Chemical Research in Toxicology</i> , 2018, 31, 646-657.	3.3	29
49	Optimization of the spontaneous tail coiling test for fast assessment of neurotoxic effects in the zebrafish embryo using an automated workflow in KNIME®. <i>Neurotoxicology and Teratology</i> , 2020, 81, 106918.	2.4	28
50	The role of cyp1a and heme oxygenase 1 gene expression for the toxicity of 3,4-dichloroaniline in zebrafish (<i>Danio rerio</i>) embryos. <i>Aquatic Toxicology</i> , 2008, 86, 112-120.	4.0	26
51	Extensive review of fish embryo acute toxicities for the prediction of GHS acute systemic toxicity categories. <i>Regulatory Toxicology and Pharmacology</i> , 2014, 69, 572-579.	2.7	26
52	An automated screening method for detecting compounds with goitrogenic activity using transgenic zebrafish embryos. <i>PLoS ONE</i> , 2018, 13, e0203087.	2.5	26
53	Diffraction-limited axial scanning in thick biological tissue with an aberration-correcting adaptive lens. <i>Scientific Reports</i> , 2019, 9, 9532.	3.3	26
54	A multi-omics concentration-response framework uncovers novel understanding of triclosan effects in the chlorophyte <i>Scenedesmus vacuolatus</i> . <i>Journal of Hazardous Materials</i> , 2020, 397, 122727.	12.4	25

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55	The Eco-Exposome Concept: Supporting an Integrated Assessment of Mixtures of Environmental Chemicals. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 30-45.	4.3	25
56	Viability and differential function of rainbow trout liver cells in primary culture: Coculture with two permanent fish cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1998, 34, 762-771.	1.5	23
57	Comparative analysis of goitrogenic effects of phenylthiourea and methimazole in zebrafish embryos. <i>Reproductive Toxicology</i> , 2015, 57, 10-20.	2.9	23
58	Critical Membrane Concentration and Mass-Balance Model to Identify Baseline Cytotoxicity of Hydrophobic and Ionizable Organic Chemicals in Mammalian Cell Lines. <i>Chemical Research in Toxicology</i> , 2021, 34, 2100-2109.	3.3	23
59	Unravelling the chemical exposome in cohort studies: routes explored and steps to become comprehensive. <i>Environmental Sciences Europe</i> , 2021, 33, 17.	5.5	22
60	Transient Overexpression of <i>adh8a</i> Increases Allyl Alcohol Toxicity in Zebrafish Embryos. <i>PLoS ONE</i> , 2014, 9, e90619.	2.5	22
61	Zebrafish biosensor for toxicant induced muscle hyperactivity. <i>Scientific Reports</i> , 2016, 6, 23768.	3.3	20
62	ANALYSIS OF ESTROGENIC EFFECTS BY QUANTIFICATION OF GREEN FLUORESCENT PROTEIN IN JUVENILE FISH OF A TRANSGENIC MEDAKA. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2553.	4.3	19
63	Meta-analysis of fish early life stage tests' Association of toxic ratios and acute-to-chronic ratios with modes of action. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 955-969.	4.3	17
64	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.	1.5	17
65	Towards a qAOP framework for predictive toxicology - Linking data to decisions. <i>Computational Toxicology</i> , 2022, 21, 100195.	3.3	17
66	Elemental imaging (LA-ICP-MS) of zebrafish embryos to study the toxicokinetics of the acetylcholinesterase inhibitor naled. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 617-627.	3.7	16
67	The role of chemical speciation, chemical fractionation and calcium disruption in manganese-induced developmental toxicity in zebrafish (<i>Danio rerio</i>) embryos. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015, 32, 209-217.	3.0	15
68	Comparative Assessment of the Sensitivity of Fish Early Life Stage, <i>Daphnia</i> , and Algae Tests to the Chronic Ecotoxicity of Xenobiotics: Perspectives for Alternatives to Animal Testing. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 30-41.	4.3	15
69	Probabilistic modelling of developmental neurotoxicity based on a simplified adverse outcome pathway network. <i>Computational Toxicology</i> , 2022, 21, 100206.	3.3	15
70	Species-specific developmental toxicity in rats and rabbits: Generation of a reference compound list for development of alternative testing approaches. <i>Reproductive Toxicology</i> , 2018, 76, 93-102.	2.9	14
71	Chemical effects on dye efflux activity in live zebrafish embryos and on zebrafish <i>Abcb4</i> ATPase activity. <i>FEBS Letters</i> , 2021, 595, 828-843.	2.8	14
72	The biosynthesis pathway of di-myo-inositol-1,1 ^α -phosphate in <i>Pyrococcus woesei</i> . <i>FEMS Microbiology Letters</i> , 1998, 168, 37-42.	1.8	13

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73	Transcriptional responses of zebrafish embryos exposed to potential sonic hedgehog pathway interfering compounds deviate from expression profiles of cyclopamine. <i>Reproductive Toxicology</i> , 2012, 33, 254-263.	2.9	12
74	Inhibition of neurite outgrowth and enhanced effects compared to baseline toxicity in SH-SY5Y cells. <i>Archives of Toxicology</i> , 2022, 96, 1039-1053.	4.2	12
75	Evaluation of health risks of nano- and microparticles. <i>Powder Metallurgy</i> , 2008, 51, 8-9.	1.7	11
76	Automated measurement of the spontaneous tail coiling of zebrafish embryos as a sensitive behavior endpoint using a workflow in KNIME. <i>MethodsX</i> , 2021, 8, 101330.	1.6	9
77	Zebrafish embryo and acute fish toxicity test show similar sensitivity for narcotic compounds. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 131-135.	1.5	8
78	Germ cell-less expression in medaka (<i>Oryzias latipes</i>). <i>Molecular Reproduction and Development</i> , 2004, 67, 15-18.	2.0	7
79	Assessing Combined Effects for Mixtures of Similar and Dissimilar Acting Neuroactive Substances on Zebrafish Embryo Movement. <i>Toxics</i> , 2021, 9, 104.	3.7	7
80	The EU chemicals strategy for sustainability: an opportunity to develop new approaches for hazard and risk assessment. <i>Archives of Toxicology</i> , 2022, 96, 2381-2386.	4.2	7
81	Grouping of chemicals into mode of action classes by automated effect pattern analysis using the zebrafish embryo toxicity test. <i>Archives of Toxicology</i> , 2022, 96, 1353-1369.	4.2	6
82	Of fine powders, hardmetals, hazard and health risk. <i>Metal Powder Report</i> , 2007, 62, 12-14.	0.1	4
83	Editorial. <i>Reproductive Toxicology</i> , 2012, 33, 127.	2.9	4
84	Tungsten carbide and tungsten carbide cobalt nanoparticle toxicity: The role of cellular particle uptake, leached ions and cobalt bioavailability. <i>Toxicology Letters</i> , 2009, 189, S185.	0.8	2
85	<i>In Response</i> : Quantitative adverse outcome pathways for prediction of adverse effects – An academic perspective. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1935-1940.	4.3	2
86	Yolk – Water Partitioning of Neutral Organic Compounds in the Model Organism <i>Danio rerio</i> . <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1506-1516.	4.3	2
87	Evaluation of Neurotoxic Effects in Zebrafish Embryos by Automatic Measurement of Early Motor Behaviors. <i>NeuroMethods</i> , 2021, , 381-397.	0.3	1
88	Pharmaceutical Contaminants in Urban Water Cycles: A Discussion of Novel Concepts for Environmental Risk Assessment. <i>Environmental Pollution</i> , 2010, , 227-243.	0.4	1
89	Fish embryos as alternative models for drug safety evaluation. , 0, , 244-268.		0