

Dries Knapen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,535
citations

26
h-index

38
g-index

47
ext. papers

1,756
ext. citations

5.6
avg, IF

4.44
L-index

#	Paper	IF	Citations
47	Drought Induces Distinct Growth Response, Protection, and Recovery Mechanisms in the Maize Leaf Growth Zone. <i>Plant Physiology</i> , 2015 , 169, 1382-96	6.6	116
46	Toxicity evaluation of perfluorooctane sulfonate (PFOS) in the liver of common carp (<i>Cyprinus carpio</i>). <i>Aquatic Toxicology</i> , 2008 , 88, 155-63	5.1	112
45	Physiological, biochemical, and genome-wide transcriptional analysis reveals that elevated CO ₂ mitigates the impact of combined heat wave and drought stress in <i>Arabidopsis thaliana</i> at multiple organizational levels. <i>Global Change Biology</i> , 2014 , 20, 3670-85	11.4	111
44	The chronic toxicity of ZnO nanoparticles and ZnCl ₂ to <i>Daphnia magna</i> and the use of different methods to assess nanoparticle aggregation and dissolution. <i>Nanotoxicology</i> , 2014 , 8, 709-17	5.3	84
43	The potential of AOP networks for reproductive and developmental toxicity assay development. <i>Reproductive Toxicology</i> , 2015 , 56, 52-5	3.4	69
42	The chronic toxicity of CuO nanoparticles and copper salt to <i>Daphnia magna</i> . <i>Journal of Hazardous Materials</i> , 2015 , 283, 416-22	12.8	66
41	Metallothionein gene and protein expression as a biomarker for metal pollution in natural gudgeon populations. <i>Aquatic Toxicology</i> , 2007 , 82, 163-72	5.1	59
40	Bioaccumulation of micropollutants and biomarker responses in caged carp (<i>Cyprinus carpio</i>). <i>Ecotoxicology and Environmental Safety</i> , 2009 , 72, 720-8	7	55
39	The uptake and elimination of ZnO and CuO nanoparticles in <i>Daphnia magna</i> under chronic exposure scenarios. <i>Water Research</i> , 2015 , 68, 249-61	12.5	50
38	Aquatic acute species sensitivity distributions of ZnO and CuO nanoparticles. <i>Science of the Total Environment</i> , 2015 , 526, 233-42	10.2	45
37	Differential hepatic metal and metallothionein levels in three Feral fish species along a metal pollution gradient. <i>PLoS ONE</i> , 2013 , 8, e60805	3.7	44
36	Temperature dependence of long-term cadmium toxicity in the zebrafish is not explained by liver oxidative stress: evidence from transcript expression to physiology. <i>Aquatic Toxicology</i> , 2013 , 126, 52-62	5.1	41
35	Unraveling the mode of action of an obesogen: mechanistic analysis of the model obesogen tributyltin in the 3T3-L1 cell line. <i>Molecular and Cellular Endocrinology</i> , 2013 , 370, 52-64	4.4	40
34	Impaired anterior swim bladder inflation following exposure to the thyroid peroxidase inhibitor 2-mercaptobenzothiazole part II: Zebrafish. <i>Aquatic Toxicology</i> , 2016 , 173, 204-217	5.1	38
33	PFOS affects posterior swim bladder chamber inflation and swimming performance of zebrafish larvae. <i>Aquatic Toxicology</i> , 2014 , 157, 225-35	5.1	37
32	Deiodinase knockdown during early zebrafish development affects growth, development, energy metabolism, motility and phototransduction. <i>PLoS ONE</i> , 2015 , 10, e0123285	3.7	37
31	Resistance to water pollution in natural gudgeon (<i>Gobio gobio</i>) populations may be due to genetic adaptation. <i>Aquatic Toxicology</i> , 2004 , 67, 155-65	5.1	37

30	The search for alternative aqueous film forming foams (AFFF) with a low environmental impact: physiological and transcriptomic effects of two Forafac(®) fluorosurfactants in turbot. <i>Aquatic Toxicology</i> , 2011 , 104, 168-76	5.1	36
29	Gene transcription patterns and energy reserves in <i>Daphnia magna</i> show no nanoparticle specific toxicity when exposed to ZnO and CuO nanoparticles. <i>Environmental Research</i> , 2015 , 138, 82-92	7.9	32
28	Toxicogenomics in the 3T3-L1 cell line, a new approach for screening of obesogenic compounds. <i>Toxicological Sciences</i> , 2014 , 140, 352-63	4.4	32
27	Best practices for hybridization design in two-colour microarray analysis. <i>Trends in Biotechnology</i> , 2009 , 27, 406-14	15.1	32
26	Microarray-based transcriptomic analysis of differences between long-term gregarious and solitary desert locusts. <i>PLoS ONE</i> , 2011 , 6, e28110	3.7	30
25	Genetic diversity and condition factor: a significant relationship in Flemish but not in German populations of the European bullhead (<i>Cottus gobio</i> L.). <i>Heredity</i> , 2002 , 89, 280-7	3.6	29
24	Impaired anterior swim bladder inflation following exposure to the thyroid peroxidase inhibitor 2-mercaptobenzothiazole part I: Fathead minnow. <i>Aquatic Toxicology</i> , 2016 , 173, 192-203	5.1	28
23	Incubation at 32.5°C and above causes malformations in the zebrafish embryo. <i>Reproductive Toxicology</i> , 2015 , 56, 56-63	3.4	28
22	Conservation units based on mitochondrial and nuclear DNA variation among European bullhead populations (<i>Cottus gobio</i> L., 1758) from Flanders, Belgium. <i>Conservation Genetics</i> , 2003 , 4, 129-140	2.6	27
21	Chemical hazard prediction and hypothesis testing using quantitative adverse outcome pathways. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019 , 36, 91-102	4.3	23
20	Gene expression profiling of three different stressors in the water flea <i>Daphnia magna</i> . <i>Ecotoxicology</i> , 2013 , 22, 900-14	2.9	20
19	ERadiation Stress Responses on Growth and Antioxidative Defense System in Plants: A Study with Strontium-90 in <i>Lemna minor</i> . <i>International Journal of Molecular Sciences</i> , 2015 , 16, 15309-27	6.3	18
18	An AOP-based alternative testing strategy to predict the impact of thyroid hormone disruption on swim bladder inflation in zebrafish. <i>Aquatic Toxicology</i> , 2018 , 200, 1-12	5.1	17
17	Assessing the impact of thermal acclimation on physiological condition in the zebrafish model. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013 , 183, 109-21	2.2	17
16	Physiological and molecular effect assessment versus physico-chemistry based mode of action schemes: <i>Daphnia magna</i> exposed to narcotics and polar narcotics. <i>Environmental Science & Technology</i> , 2012 , 46, 10-8	10.3	15
15	Toward an AOP Network-Based Tiered Testing Strategy for the Assessment of Thyroid Hormone Disruption. <i>Environmental Science & Technology</i> , 2020 , 54, 8491-8499	10.3	14
14	Ecdysone signaling and transcript signature in <i>Drosophila</i> cells resistant against methoxyfenozide. <i>Journal of Insect Physiology</i> , 2010 , 56, 1973-85	2.4	14
13	From mRNA Expression of Drug Disposition Genes to In Vivo Assessment of CYP-Mediated Biotransformation during Zebrafish Embryonic and Larval Development. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	13

12	Mechanistic evaluation of the insulin response in H4IIE hepatoma cells: new endpoints for toxicity testing?. <i>Toxicology Letters</i> , 2012 , 212, 180-9	4.4	11
11	Historical metal pollution in natural gudgeon populations: Inferences from allozyme, microsatellite and condition factor analysis. <i>Aquatic Toxicology</i> , 2009 , 95, 17-26	5.1	11
10	Effect of Thyroperoxidase and Deiodinase Inhibition on Anterior Swim Bladder Inflation in the Zebrafish. <i>Environmental Science & Technology</i> , 2020 , 54, 6213-6223	10.3	11
9	ERGO: Breaking Down the Wall between Human Health and Environmental Testing of Endocrine Disrupters. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
8	The influence of different spatial-scale variables on caddisfly assemblages in Flemish lowland streams. <i>Ecological Entomology</i> , 2011 , 36, 355-368	2.1	10
7	Bacterial gene profiling assay applied as an alternative method for mode of action classification: pilot study using chlorinated anilines. <i>Environmental Toxicology and Chemistry</i> , 2011 , 30, 1059-68	3.8	6
6	Isolation and characterization of polymorphic microsatellite loci in the gudgeon, <i>Gobio gobio</i> (Cyprinidae). <i>Molecular Ecology Notes</i> , 2006 , 6, 387-389		3
5	Optimizing the Use of Zebrafish Feeding Trials for the Safety Evaluation of Genetically Modified Crops. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
4	High microsatellite genetic variability of the stone loach, <i>Barbatula barbatula</i> , in anthropogenically disturbed watercourses. <i>Fisheries Management and Ecology</i> , 2009 , 16, 112-120	1.8	2
3	Adverse Outcome Pathways and the Paradox of Complex Simplicity. <i>Environmental Toxicology and Chemistry</i> , 2021 , 40, 2950-2952	3.8	1
2	Mass Spectrometry-Based Zebrafish Toxicometabolomics: A Review of Analytical and Data Quality Challenges. <i>Metabolites</i> , 2021 , 11,	5.6	1
1	Sublethal Effect Concentrations for Nonpolar Narcosis in the Zebrafish Embryo. <i>Environmental Toxicology and Chemistry</i> , 2021 , 40, 2802-2812	3.8	1