# Dries Knapen

## List of Publications by Year in Descending Order



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| 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 | Adverse Outcome Pathways and the Paradox of Complex Simplicity. *Environmental Toxicology and Chemistry*, **2021**, 40, 2950-2952 | 3.8 | 1 |
| 46 | Mass Spectrometry-Based Zebrafish Toxicometabolomics: A Review of Analytical and Data Quality Challenges. *Metabolites*, **2021**, 11, | 5.6 | 1 |
| 45 | Sublethal Effect Concentrations for Nonpolar Narcosis in the Zebrafish Embryo. *Environmental Toxicology and Chemistry*, **2021**, 40, 2802-2812 | 3.8 | 1 |
| 44 | Toward an AOP Network-Based Tiered Testing Strategy for the Assessment of Thyroid Hormone Disruption. *Environmental Science & Technology*, **2020**, 54, 8491-8499 | 10.3 | 14 |
| 43 | ERGO: Breaking Down the Wall between Human Health and Environmental Testing of Endocrine Disrupters. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 10 |
| 42 | Effect of Thyroperoxidase and Deiodinase Inhibition on Anterior Swim Bladder Inflation in the Zebrafish. *Environmental Science & Technology*, **2020**, 54, 6213-6223 | 10.3 | 11 |
| 41 | Optimizing the Use of Zebrafish Feeding Trials for the Safety Evaluation of Genetically Modified Crops. *International Journal of Molecular Sciences*, **2019**, 20, | 6.3 | 2 |
| 40 | Chemical hazard prediction and hypothesis testing using quantitative adverse outcome pathways. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 91-102 | 4.3 | 23 |
| 39 | An AOP-based alternative testing strategy to predict the impact of thyroid hormone disruption on swim bladder inflation in zebrafish. *Aquatic Toxicology*, **2018**, 200, 1-12 | 5.1 | 17 |
| 38 | From mRNA Expression of Drug Disposition Genes to In Vivo Assessment of CYP-Mediated Biotransformation during Zebrafish Embryonic and Larval Development. *International Journal of Molecular Sciences*, **2018**, 19, | 6.3 | 13 |
| 37 | Impaired anterior swim bladder inflation following exposure to the thyroid peroxidase inhibitor 2-mercaptobenzothiazole part II: Zebrafish. *Aquatic Toxicology*, **2016**, 173, 204-217 | 5.1 | 38 |
| 36 | Impaired anterior swim bladder inflation following exposure to the thyroid peroxidase inhibitor 2-mercaptobenzothiazole part I: Fathead minnow. *Aquatic Toxicology*, **2016**, 173, 192-203 | 5.1 | 28 |
| 35 | The uptake and elimination of ZnO and CuO nanoparticles in Daphnia magna under chronic exposure scenarios. *Water Research*, **2015**, 68, 249-61 | 12.5 | 50 |
| 34 | The chronic toxicity of CuO nanoparticles and copper salt to Daphnia magna. *Journal of Hazardous Materials*, **2015**, 283, 416-22 | 12.8 | 66 |
| 33 | Radiation Stress Responses on Growth and Antioxidative Defense System in Plants: A Study with Strontium-90 in Lemna minor. *International Journal of Molecular Sciences*, **2015**, 16, 15309-27 | 6.3 | 18 |
| 32 | Deiodinase knockdown during early zebrafish development affects growth, development, energy metabolism, motility and phototransduction. *PLoS ONE*, **2015**, 10, e0123285 | 3.7 | 37 |
| 31 | Incubation at 32.5°C and above causes malformations in the zebrafish embryo. *Reproductive Toxicology*, **2015**, 56, 56-63 | 3.4 | 28 |

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|---|---|---|---|
| 30 | The potential of AOP networks for reproductive and developmental toxicity assay development. *Reproductive Toxicology*, **2015**, 56, 52-5 | 3.4 | 69 |
| 29 | Aquatic acute species sensitivity distributions of ZnO and CuO nanoparticles. *Science of the Total Environment*, **2015**, 526, 233-42 | 10.2 | 45 |
| 28 | Drought Induces Distinct Growth Response, Protection, and Recovery Mechanisms in the Maize Leaf Growth Zone. *Plant Physiology*, **2015**, 169, 1382-96 | 6.6 | 116 |
| 27 | Gene transcription patterns and energy reserves in Daphnia magna show no nanoparticle specific toxicity when exposed to ZnO and CuO nanoparticles. *Environmental Research*, **2015**, 138, 82-92 | 7.9 | 32 |
| 26 | Physiological, biochemical, and genome-wide transcriptional analysis reveals that elevated CO2 mitigates the impact of combined heat wave and drought stress in Arabidopsis thaliana at multiple organizational levels. *Global Change Biology*, **2014**, 20, 3670-85 | 11.4 | 111 |
| 25 | PFOS affects posterior swim bladder chamber inflation and swimming performance of zebrafish larvae. *Aquatic Toxicology*, **2014**, 157, 225-35 | 5.1 | 37 |
| 24 | The chronic toxicity of ZnO nanoparticles and ZnCl2 to Daphnia magna and the use of different methods to assess nanoparticle aggregation and dissolution. *Nanotoxicology*, **2014**, 8, 709-17 | 5.3 | 84 |
| 23 | Toxicogenomics in the 3T3-L1 cell line, a new approach for screening of obesogenic compounds. *Toxicological Sciences*, **2014**, 140, 352-63 | 4.4 | 32 |
| 22 | Gene expression profiling of three different stressors in the water flea Daphnia magna. *Ecotoxicology*, **2013**, 22, 900-14 | 2.9 | 20 |
| 21 | Unraveling the mode of action of an obesogen: mechanistic analysis of the model obesogen tributyltin in the 3T3-L1 cell line. *Molecular and Cellular Endocrinology*, **2013**, 370, 52-64 | 4.4 | 40 |
| 20 | Assessing the impact of thermal acclimation on physiological condition in the zebrafish model. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2013**, 183, 109-21 | 2.2 | 17 |
| 19 | Temperature dependence of long-term cadmium toxicity in the zebrafish is not explained by liver oxidative stress: evidence from transcript expression to physiology. *Aquatic Toxicology*, **2013**, 126, 52-62 | 5.1 | 41 |
| 18 | Differential hepatic metal and metallothionein levels in three Feral fish species along a metal pollution gradient. *PLoS ONE*, **2013**, 8, e60805 | 3.7 | 44 |
| 17 | Physiological and molecular effect assessment versus physico-chemistry based mode of action schemes: Daphnia magna exposed to narcotics and polar narcotics. *Environmental Science & Technology*, **2012**, 46, 10-8 | 10.3 | 15 |
| 16 | Mechanistic evaluation of the insulin response in H4IIE hepatoma cells: new endpoints for toxicity testing?. *Toxicology Letters*, **2012**, 212, 180-9 | 4.4 | 11 |
| 15 | The search for alternative aqueous film forming foams (AFFF) with a low environmental impact: physiological and transcriptomic effects of two Forafac( ) fluorosurfactants in turbot. *Aquatic Toxicology*, **2011**, 104, 168-76 | 5.1 | 36 |
| 14 | Bacterial gene profiling assay applied as an alternative method for mode of action classification: pilot study using chlorinated anilines. *Environmental Toxicology and Chemistry*, **2011**, 30, 1059-68 | 3.8 | 6 |
| 13 | The influence of different spatial-scale variables on caddisfly assemblages in Flemish lowland streams. *Ecological Entomology*, **2011**, 36, 355-368 | 2.1 | 10 |

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| 12 | Microarray-based transcriptomic analysis of differences between long-term gregarious and solitarious desert locusts. *PLoS ONE*, **2011**, 6, e28110 | 3.7 | 30 |
| 11 | Ecdysone signaling and transcript signature in Drosophila cells resistant against methoxyfenozide. *Journal of Insect Physiology*, **2010**, 56, 1973-85 | 2.4 | 14 |
| 10 | Best practices for hybridization design in two-colour microarray analysis. *Trends in Biotechnology*, **2009**, 27, 406-14 | 15.1 | 32 |
| 9 | High microsatellite genetic variability of the stone loach, Barbatula barbatula, in anthropogenically disturbed watercourses. *Fisheries Management and Ecology*, **2009**, 16, 112-120 | 1.8 | 2 |
| 8 | Bioaccumulation of micropollutants and biomarker responses in caged carp (Cyprinus carpio). *Ecotoxicology and Environmental Safety*, **2009**, 72, 720-8 | 7 | 55 |
| 7 | Historical metal pollution in natural gudgeon populations: Inferences from allozyme, microsatellite and condition factor analysis. *Aquatic Toxicology*, **2009**, 95, 17-26 | 5.1 | 11 |
| 6 | Toxicity evaluation of perfluorooctane sulfonate (PFOS) in the liver of common carp (Cyprinus carpio). *Aquatic Toxicology*, **2008**, 88, 155-63 | 5.1 | 112 |
| 5 | Metallothionein gene and protein expression as a biomarker for metal pollution in natural gudgeon populations. *Aquatic Toxicology*, **2007**, 82, 163-72 | 5.1 | 59 |
| 4 | Isolation and characterization of polymorphic microsatellite loci in the gudgeon, Gobio gobio (Cyprinidae). *Molecular Ecology Notes*, **2006**, 6, 387-389 | | 3 |
| 3 | Resistance to water pollution in natural gudgeon (Gobio gobio) populations may be due to genetic adaptation. *Aquatic Toxicology*, **2004**, 67, 155-65 | 5.1 | 37 |
| 2 | Conservation units based on mitochondrial and nuclear DNA variation among European bullhead populations (Cottus gobio L., 1758) from Flanders, Belgium. *Conservation Genetics*, **2003**, 4, 129-140 | 2.6 | 27 |
| 1 | Genetic diversity and condition factor: a significant relationship in Flemish but not in German populations of the European bullhead (Cottus gobio L.). *Heredity*, **2002**, 89, 280-7 | 3.6 | 29 |