Hilda E Witters

List of Publications by Year in Descending Order

78 papers	3,958 citations	32 h-index	62 g-index
95 ext. papers	4,340 ext. citations	4.1 avg, IF	4.94 L-index

#	Paper	IF	Citations
78	ELIXIR and Toxicology: a community in development. *F1000Research*, **2021**, 10, 1129	3.6	0
77	Minimum reporting standards based on a comprehensive review of the zebrafish embryo teratogenicity assay. *Regulatory Toxicology and Pharmacology*, **2021**, 127, 105054	3.4	0
76	A Systematic Review to Compare Chemical Hazard Predictions of the Zebrafish Embryotoxicity Test With Mammalian Prenatal Developmental Toxicity. *Toxicological Sciences*, **2021**, 183, 14-35	4.4	3
75	Blueprint for a self-sustained European Centre for service provision in safe and sustainable innovation for nanotechnology.. *NanoImpact*, **2021**, 23, 100337	5.6	1
74	Sustainable future technologies: A concept for risk assessment applied to chemical looping combustion installations. *Chemical Engineering Research and Design*, **2021**, 147, 834-845	5.5	
73	Blueprint for the Development and Sustainability of National Nanosafety Centers. *NanoEthics*, **2020** , 14, 169-183	1	2
72	Alternative air-liquid interface method for inhalation toxicity testing of a petroleum-derived substance. *MethodsX*, **2020**, 7, 101088	1.9	1
71	Xenopus laevis as a Bioindicator of Endocrine Disruptors in the Region of Central Chile. *Archives of Environmental Contamination and Toxicology*, **2019**, 77, 390-408	3.2	2
70	Cell-based data to predict the toxicity of chemicals to fish. Commentary on the manuscript by Rodrigues et al., 2019. Cell-based assays seem not to accurately predict fish short-term toxicity of pesticides. Environmental Pollution 252:476-482. *Environmental Pollution*, **2019**, 254, 113060	9.3	1
69	Repeatability and Reproducibility of the RTgill-W1 Cell Line Assay for Predicting Fish Acute Toxicity. *Toxicological Sciences*, **2019**, 169, 353-364	4.4	19
68	Regioselective synthesis, isomerisation, in vitro oestrogenic activity, and copolymerisation of bisguaiacol F (BGF) isomers. *Green Chemistry*, **2019**, 21, 6622-6633	10	14
67	Adaptation of the Systematic Review Framework to the Assessment of Toxicological Test Methods: Challenges and Lessons Learned with the Zebrafish Embryotoxicity Test. *Toxicological Sciences*, **2018**,	4.4	6
66	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
65	Consensus statement on the need for innovation, transition and implementation of developmental neurotoxicity (DNT) testing for regulatory purposes. *Toxicology and Applied Pharmacology*, **2018**, 354, 3-6	4.6	69
64	Promising bulk production of a potentially benign bisphenol A replacement from a hardwood lignin platform. *Green Chemistry*, **2018**, 20, 1050-1058	10	50
63	Recommendation on test readiness criteria for new approach methods in toxicology: Exemplified for developmental neurotoxicity. *ALTEX: Alternatives To Animal Experimentation*, **2018**, 35, 306-352	4.3	71
62	Sustainable bisphenols from renewable softwood lignin feedstock for polycarbonates and cyanate ester resins. *Green Chemistry*, **2017**, 19, 2561-2570	10	70

61	VITOSENSI**2017**, 347-359		
60	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
59	Phenotypic and biomarker evaluation of zebrafish larvae as an alternative model to predict mammalian hepatotoxicity. *Journal of Applied Toxicology*, **2016**, 36, 1194-206	4.1	23
58	Gene expression profiles reveal distinct immunological responses of cobalt and cerium dioxide nanoparticles in two in vitro lung epithelial cell models. *Toxicology Letters*, **2014**, 228, 157-69	4.4	19
57	OECD validation study to assess intra- and inter-laboratory reproducibility of the zebrafish embryo toxicity test for acute aquatic toxicity testing. *Regulatory Toxicology and Pharmacology*, **2014**, 69, 496-511	3.4	138
56	Expert opinion on toxicity profiling--report from a NORMAN expert group meeting. *Integrated Environmental Assessment and Management*, **2013**, 9, 185-91	2.5	27
55	Assessment of the developmental neurotoxicity of compounds by measuring locomotor activity in zebrafish embryos and larvae. *Neurotoxicology and Teratology*, **2013**, 37, 44-56	3.9	88
54	A European perspective on alternatives to animal testing for environmental hazard identification and risk assessment. *Regulatory Toxicology and Pharmacology*, **2013**, 67, 506-30	3.4	121
53	Locomotoractivity in zebrafish embryo and larva: alternative assays to evaluate the developmental neurotoxic potential of chemicals and drugs. *Toxicology Letters*, **2013**, 221, S44	4.4	
52	Zebrafish embryos as an alternative to animal experiments--a commentary on the definition of the onset of protected life stages in animal welfare regulations. *Reproductive Toxicology*, **2012**, 33, 128-32	3.4	377
51	Feasibility study of the zebrafish assay as an alternative method to screen for developmental toxicity and embryotoxicity using a training set of 27 compounds. *Reproductive Toxicology*, **2012**, 33, 142-54	3.4	137
50	Determination of Estrogen Activity in River Waters and Wastewater in Luxembourg by Chemical Analysis and the Yeast Estrogen Screen Assay. *Environment and Pollution*, **2012**, 1,	1	11
49	Functionality and specificity of gene markers for skin sensitization in dendritic cells. *Toxicology Letters*, **2011**, 203, 106-10	4.4	20
48	Assessment of chemical skin-sensitizing potency by an in vitro assay based on human dendritic cells. *Toxicological Sciences*, **2010**, 116, 122-9	4.4	27
47	Gene markers in dendritic cells unravel pieces of the skin sensitization puzzle. *Toxicology Letters*, **2010**, 196, 95-103	4.4	18
46	Locomotor activity in zebrafish embryos: a new method to assess developmental neurotoxicity. *Neurotoxicology and Teratology*, **2010**, 32, 460-71	3.9	142
45	Screening for (anti)androgenic properties using a standard operation protocol based on the human stably transfected androgen sensitive PALM cell line. First steps towards validation. *Reproductive Toxicology*, **2010**, 30, 9-17	3.4	15
44	The assessment of estrogenic or anti-estrogenic activity of chemicals by the human stably transfected estrogen sensitive MELN cell line: results of test performance and transferability. *Reproductive Toxicology*, **2010**, 30, 60-72	3.4	19

43	Optimization and prevalidation of the in vitro ERalpha CALUX method to test estrogenic and antiestrogenic activity of compounds. *Reproductive Toxicology*, **2010**, 30, 73-80	3.4	58
42	Optimization and prevalidation of the in vitro AR CALUX method to test androgenic and antiandrogenic activity of compounds. *Reproductive Toxicology*, **2010**, 30, 18-24	3.4	64
41	The ReProTect Feasibility Study, a novel comprehensive in vitro approach to detect reproductive toxicants. *Reproductive Toxicology*, **2010**, 30, 200-18	3.4	85
40	Development of a screening assay to identify teratogenic and embryotoxic chemicals using the zebrafish embryo. *Reproductive Toxicology*, **2009**, 28, 308-20	3.4	196
39	THP-1 monocytes but not macrophages as a potential alternative for CD34+ dendritic cells to identify chemical skin sensitizers. *Toxicology and Applied Pharmacology*, **2009**, 236, 221-30	4.6	18
38	Gene profiles of a human bronchial epithelial cell line after in vitro exposure to respiratory (non-)sensitizing chemicals: identification of discriminating genetic markers and pathway analysis. *Toxicology*, **2009**, 255, 151-9	4.4	24
37	Inter-laboratory comparison of a yeast bioassay for the determination of estrogenic activity in biological samples. *Analytica Chimica Acta*, **2009**, 637, 265-72	6.6	11
36	Gene profiles of THP-1 macrophages after in vitro exposure to respiratory (non-)sensitizing chemicals: identification of discriminating genetic markers and pathway analysis. *Toxicology in Vitro* , **2009**, 23, 1151-62	3.6	13
35	MUTZ-3-derived dendritic cells as an in vitro alternative model to CD34+ progenitor-derived dendritic cells for testing of chemical sensitizers. *Toxicology in Vitro*, **2009**, 23, 1477-81	3.6	17
34	Gene profiles of a human alveolar epithelial cell line after in vitro exposure to respiratory (non-)sensitizing chemicals: identification of discriminating genetic markers and pathway analysis. *Toxicology Letters*, **2009**, 185, 16-22	4.4	18
33	A cell-based in vitro alternative to identify skin sensitizers by gene expression. *Toxicology and Applied Pharmacology*, **2008**, 231, 103-11	4.6	69
32	Gene expression profiling of in vitro cultured macrophages after exposure to the respiratory sensitizer hexamethylene diisocyanate. *Toxicology in Vitro*, **2008**, 22, 1107-14	3.6	18
31	Cell types involved in allergic asthma and their use in in vitro models to assess respiratory sensitization. *Toxicology in Vitro*, **2008**, 22, 1419-31	3.6	59
30	Molecular recognition of endocrine disruptors by synthetic and natural 17beta-estradiol receptors: a comparative study. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 2081-8	4.4	20
29	The allergic cascade: review of the most important molecules in the asthmatic lung. *Immunology Letters*, **2007**, 113, 6-18	4.1	167
28	Screening of endocrine disrupting chemicals with MELN cells, an ER-transactivation assay combined with cytotoxicity assessment. *Toxicology in Vitro*, **2007**, 21, 1262-7	3.6	34
27	Microarray analyses in dendritic cells reveal potential biomarkers for chemical-induced skin sensitization. *Molecular Immunology*, **2007**, 44, 3222-33	4.3	56
26	Gene expression signatures in CD34+-progenitor-derived dendritic cells exposed to the chemical contact allergen nickel sulfate. *Toxicology and Applied Pharmacology*, **2006**, 216, 131-49	4.6	33

25	Flow cytometric characterisation of antigen presenting dendritic cells after in vitro exposure to diesel exhaust particles. *Toxicology in Vitro*, **2005**, 19, 903-7	3.6	19
24	Expression analysis of immune-related genes in CD34(+) progenitor-derived dendritic cells after exposure to the chemical contact allergen DNCB. *Toxicology in Vitro*, **2005**, 19, 909-13	3.6	20
23	Cytokine transcript profiling in CD34+-progenitor derived dendritic cells exposed to contact allergens and irritants. *Toxicology Letters*, **2005**, 155, 187-94	4.4	25
22	Comparison of different androgen bioassays in the screening for environmental (anti)androgenic activity. *Environmental Toxicology and Chemistry*, **2005**, 24, 2646-56	3.8	11
21	Comparative study on the in vitro/in vivo estrogenic potencies of 17beta-estradiol, estrone, 17alpha-ethynylestradiol and nonylphenol. *Aquatic Toxicology*, **2004**, 66, 183-95	5.1	224
20	Effects of 17alpha-ethynylestradiol in a partial life-cycle test with zebrafish (Danio rerio): effects on growth, gonads and female reproductive success. *Science of the Total Environment*, **2003**, 309, 127-37	10.2	107
19	Comparison of vitellogenin responses in zebrafish and rainbow trout following exposure to environmental estrogens. *Ecotoxicology and Environmental Safety*, **2003**, 56, 271-81	7	133
18	Effects of ethynylestradiol on the reproductive physiology in zebrafish (Danio rerio): Time dependency and reversibility. *Environmental Toxicology and Chemistry*, **2002**, 21, 767-775	3.8	142
17	Sex hormones originating from different livestock production systems: fate and potential disrupting activity in the environment. *Analytica Chimica Acta*, **2002**, 473, 27-37	6.6	257
16	. *Environmental Toxicology and Chemistry*, **2002**, 21, 767	3.8	74
15	Reproductive effects of ethynylestradiol and 4t-octylphenol on the zebrafish (Danio rerio). *Archives of Environmental Contamination and Toxicology*, **2001**, 41, 458-67	3.2	91
14	Ecotoxic impact of suspended solids collected from polluted surface waters. *Journal of Soils and Sediments*, **2001**, 1, 223-233	3.4	1
13	Detection of estrogenic activity in Flemish surface waters using an in vitro recombinant assay with yeast cells. *Water Science and Technology*, **2001**, 43, 117-123	2.2	47
12	Toxicity of cadmium-contaminated clay to the zebrafish Danio rerio. *Archives of Environmental Contamination and Toxicology*, **2000**, 38, 191-6	3.2	9
11	Chemical speciation dynamics and toxicity assessment in aquatic systems. *Ecotoxicology and Environmental Safety*, **1998**, 41, 90-5	7	36
10	Immunolocalization of Na+, K+-ATPase in the gill epithelium of rainbow trout, Oncorhynchus mykiss. *Cell and Tissue Research*, **1996**, 283, 461-8	4.2	71
9	. *Environmental Toxicology and Chemistry*, **1996**, 15, 986	3.8	25
8	The toxic mixing zone of neutral and acidic river water: Acute aluminium toxicity in brown trout (Salmo trutta L.). *Water, Air, and Soil Pollution*, **1995**, 85, 341-346	2.6	20

7	Cadmium Accumulation in Cress as a Measure for Bioavailable Pore Water Concentration. *Soil & Environment*, **1995**, 429-430		
6	Branchial and renal ion fluxes and transepithelial electrical potential differences in rainbow trout, Oncorhynchus mykiss: effects of aluminium at low pH. *Environmental Biology of Fishes*, **1992**, 34, 197-206	1.6	3
5	The effect of humic substances on the toxicity of aluminium to adult rainbow trout, Oncorhynchus mykiss (Walbaum). *Journal of Fish Biology*, **1990**, 37, 43-53	1.9	50
4	Haematological disturbances and osmotic shifts in rainbow trout, Oncorhynchus mykiss (Walbaum) under acid and aluminium exposure. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1990**, 160, 563-571	2.2	18
3	Laboratory studies on invertebrate survival and physiology in acid waters **1989**, 153-170		13
2	A Microanalytical Study of the Gills of Aluminium-Exposed Rainbow Trout (Salmo Gairdneri). *International Journal of Environmental Analytical Chemistry*, **1988**, 34, 227-237	1.8	9
1	Interference of aluminum and pH on the Na-influx in an aquatic insect Corixa punctata (Illig.). *Bulletin of Environmental Contamination and Toxicology*, **1984**, 32, 575-9	2.7	23