Karen Smeets

List of Publications by Year
in descending order

48 papers	3,971 citations	279798 23 h-index	197818 49 g-index
52 all docs	52 docs citations	52 times ranked	4999 citing authors

#	Article	IF	Citations
1	Cadmium stress: an oxidative challenge. BioMetals, 2010, 23, 927-940.	4.1	823
2	Normalisation of real-time RT-PCR gene expression measurements in Arabidopsis thaliana exposed to increased metal concentrations. Planta, 2008, 227, 1343-1349.	3.2	309
3	The cellular redox state as a modulator in cadmium and copper responses in Arabidopsis thaliana seedlings. Journal of Plant Physiology, 2011, 168, 309-316.	3.5	298
4	Induction of oxidative stress and antioxidative mechanisms in Phaseolus vulgaris after Cd application. Plant Physiology and Biochemistry, 2005, 43, 437-444.	5.8	262
5	Cadmium-Induced Pathologies: Where Is the Oxidative Balance Lost (or Not)?. International Journal of Molecular Sciences, 2013, 14, 6116-6143.	4.1	240
6	Cadmium responses in Arabidopsis thaliana: glutathione metabolism and antioxidative defence system. Physiologia Plantarum, 2007, 129, 519-528.	5.2	195
7	Cadmium-induced transcriptional and enzymatic alterations related to oxidative stress. Environmental and Experimental Botany, 2008, 63, 1-8.	4.2	181
8	Subcellular localization of cadmium in roots and leaves of Arabidopsis thaliana. New Phytologist, 2007, 173, 495-508.	7.3	177
9	Leaf proteome responses of Arabidopsis thaliana exposed to mild cadmium stress. Journal of Plant Physiology, 2010, 167, 247-254.	3.5	155
10	Low cadmium exposure triggers a biphasic oxidative stress response in mice kidneys. Toxicology, 2007, 236, 29-41.	4.2	151
11	Oxidative stress-related responses at transcriptional and enzymatic levels after exposure to Cd or Cu in a multipollution context. Journal of Plant Physiology, 2009, 166, 1982-1992.	3.5	135
12	Metal-specific and NADPH oxidase dependent changes in lipoxygenase and NADPH oxidase gene expression in Arabidopsis thaliana exposed to cadmium or excess copper. Functional Plant Biology, 2010, 37, 532.	2.1	97
13	Reactive Oxygen Species in Planarian Regeneration: An Upstream Necessity for Correct Patterning and Brain Formation. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-19.	4.0	96
14	Glutathione and mitochondria determine acute defense responses and adaptive processes in cadmium-induced oxidative stress and toxicity of the kidney. Archives of Toxicology, 2015, 89, 2273-2289.	4.2	86
15	Selection of reference genes for gene expression studies in rat oligodendrocytes using quantitative real time PCR. Journal of Neuroscience Methods, 2010, 187, 78-83.	2.5	70
16	Critical evaluation and statistical validation of a hydroponic culture system for Arabidopsis thaliana. Plant Physiology and Biochemistry, 2008, 46, 212-218.	5.8	64
17	Effects of uranium and phosphate concentrations on oxidative stress related responses induced in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2008, 46, 987-996.	5.8	63
18	Liver X receptors regulate cholesterol homeostasis in oligodendrocytes. Journal of Neuroscience Research, 2012, 90, 60-71.	2.9	59

#	Article	IF	Citations
19	The role of the kinase <scp>OXI1</scp> in cadmiumâ€•and copperâ€•induced molecular responses in <scp>A</scp>rabidopsis thaliana. Plant, Cell and Environment, 2013, 36, 1228-1238.	5.7	50
20	Unraveling uranium induced oxidative stress related responses in Arabidopsis thaliana seedlings. Part II: responses in the leaves and general conclusions. Journal of Environmental Radioactivity, 2011, 102, 638-645.	1.7	37
21	Do you have the nerves to regenerate? The importance of neural signalling in the regeneration process. Developmental Biology, 2016, 409, 4-15.	2.0	36
22	Unraveling uranium induced oxidative stress related responses in Arabidopsis thaliana seedlings. Part I: responses in the roots. Journal of Environmental Radioactivity, 2011, 102, 630-637.	1.7	35
23	Physiological and molecular characterisation of cadmium stress in Schmidtea mediterranea. International Journal of Developmental Biology, 2012, 56, 183-191.	0.6	32
24	Proximity of breeding and foraging areas affects foraging effort of a crepuscular, insectivorous bird. Scientific Reports, 2018, 8, 3008.	3.3	26
25	Toxicity profiles and solventâ€“toxicant interference in the planarian Schmidtea mediterranea after dimethylsulfoxide (DMSO) exposure. Journal of Applied Toxicology, 2015, 35, 319-326.	2.8	24
26	Reactive oxygen species rescue regeneration after silencing the MAPKâ€“ERK signaling pathway in Schmidtea mediterranea. Scientific Reports, 2021, 11, 881.	3.3	23
27	In vivo Toxicity Assessment of Silver Nanoparticles in Homeostatic versus Regenerating Planarians. Nanotoxicology, 2019, 13, 476-491.	3.0	21
28	The cichlidâ€“Cichlidogyrus network: a blueprint for a model system of parasite evolution. Hydrobiologia, 2021, 848, 3847-3863.	2.0	18
29	Reference genes for qPCR assays in toxic metal and salinity stress in two flatworm model organisms. Ecotoxicology, 2012, 21, 475-484.	2.4	16
30	The first mitochondrial genomes of endosymbiotic rhabdocoels illustrate evolutionary relaxation of atp8 and genome plasticity in flatworms. International Journal of Biological Macromolecules, 2020, 162, 454-469.	7.5	16
31	Physico-chemical characterisation of the fraction of silver (nano)particles in pristine food additive E174 and in E174-containing confectionery. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2020, 37, 1831-1846.	2.3	15
32	Renal cells exposed to cadmium in vitro and in vivo: normalizing gene expression data. Journal of Applied Toxicology, 2015, 35, 478-484.	2.8	14
33	DNA diet profiles with highâ€•resolution animal tracking data reveal levels of prey selection relative to habitat choice in a crepuscular insectivorous bird. Ecology and Evolution, 2020, 10, 13044-13056.	1.9	14
34	A carcinogenic trigger to study the function of tumor suppressor genes in Schmidtea mediterranea. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	13
35	Somewhere I belong: phylogeny and morphological evolution in a speciesâ€•rich lineage of ectoparasitic flatworms infecting cichlid fishes. Cladistics, 2022, 38, 465-512.	3.3	10
36	Planarians Customize Their Stem Cell Responses Following Genotoxic Stress as a Function of Exposure Time and Regenerative State. Toxicological Sciences, 2018, 162, 251-263.	3.1	9

#	Article	IF	Citations
37	Is â€˜everything everywhereâ€™? Unprecedented cryptic diversity in the cosmopolitan flatworm Gyratrix hermaphroditus. Zoologica Scripta, 2021, 50, 837-851.	1.7	8
38	Dactylogyridae 2022: a meta-analysis of phylogenetic studies and generic diagnoses of parasitic flatworms using published genetic and morphological data. International Journal for Parasitology, 2022, 52, 427-457.	3.1	8
39	Explosive networking: The role of adaptive host radiations and ecological opportunity in a speciesâ€rich hostâ€“parasite assembly. Ecology Letters, 2022, 25, 1795-1812.	6.4	8
40	Stem cell proliferation patterns as an alternative for in vivo prediction and discrimination of carcinogenic compounds. Scientific Reports, 2017, 7, 45616.	3.3	5
41	A Spatiotemporal Characterisation of Redox Molecules in Planarians, with a Focus on the Role of Glutathione during Regeneration. Biomolecules, 2021, 11, 714.	4.0	5
42	Population genomics of introduced Nile tilapiaOreochromis niloticus(Linnaeus, 1758) in the Democratic Republic of the Congo: Repeated introductions since colonial times with multiple sources. Molecular Ecology, 2022, 31, 3304-3322.	3.9	5
43	Toxic effects of cadmium on flatworm stem cell dynamics: A transcriptomic and ultrastructural elucidation of underlying mechanisms. Environmental Toxicology, 2016, 31, 1217-1228.	4.0	4
44	Differential effect of silver nanoparticles on the microbiome of adult and developing planaria. Aquatic Toxicology, 2021, 230, 105672.	4.0	4
45	Redox-Related Mechanisms to Rebalance Cancer-Deregulated Cell Growth. Current Drug Targets, 2016, 17, 1414-1437.	2.1	4
46	Interactive toxicity of copper and cadmium in regenerating and adult planarians. Chemosphere, 2022, 297, 133819.	8.2	4
47	Regenerative responses following DNA damage: Î²-catenin mediates head regrowth in the planarian Schmidtea mediterranea. Journal of Cell Science, 2020, 133, .	2.0	3
48	An Adult Stem Cell Proliferation Assay in the Flatworm Model Macrostomum lignano to Predict the Carcinogenicity of Compounds. Applied in Vitro Toxicology, 2015, 1, 213-219.	1.1	2