Ann Cuypers

List of Publications by Year
in descending order

172 papers	12,279 citations	28190 55 h-index	28224 105 g-index
175 all docs	175 docs citations	175 times ranked	13231 citing authors

#	Article	IF	Citations
1	Cadmium stress: an oxidative challenge. BioMetals, 2010, 23, 927-940.	1.8	823
2	Plant sugars are crucial players in the oxidative challenge during abiotic stress: extending the traditional concept. Plant, Cell and Environment, 2013, 36, 1242-1255.	2.8	626
3	Glutathione Is a Key Player in Metal-Induced Oxidative Stress Defenses. International Journal of Molecular Sciences, 2012, 13, 3145-3175.	1.8	621
4	Bacterial seed endophytes: genera, vertical transmission and interaction with plants. Environmental Microbiology Reports, 2015, 7, 40-50.	1.0	520
5	Cadmium exposure in the population: from health risks to strategies of prevention. BioMetals, 2010, 23, 769-782.	1.8	350
6	Normalisation of real-time RT-PCR gene expression measurements in Arabidopsis thaliana exposed to increased metal concentrations. Planta, 2008, 227, 1343-1349.	1.6	309
7	The cellular redox state as a modulator in cadmium and copper responses in Arabidopsis thaliana seedlings. Journal of Plant Physiology, 2011, 168, 309-316.	1.6	298
8	Phytoextraction of toxic metals: a central role for glutathione. Plant, Cell and Environment, 2012, 35, 334-346.	2.8	283
9	Induction of oxidative stress and antioxidative mechanisms in Phaseolus vulgaris after Cd application. Plant Physiology and Biochemistry, 2005, 43, 437-444.	2.8	262
10	The need for transparency and good practices in the qPCR literature. Nature Methods, 2013, 10, 1063-1067.	9.0	251
11	Cadmium-Induced Pathologies: Where Is the Oxidative Balance Lost (or Not)?. International Journal of Molecular Sciences, 2013, 14, 6116-6143.	1.8	240
12	Reciprocal Interactions between Cadmium-Induced Cell Wall Responses and Oxidative Stress in Plants. Frontiers in Plant Science, 2017, 8, 1867.	1.7	223
13	Cadmium responses in Arabidopsis thaliana: glutathione metabolism and antioxidative defence system. Physiologia Plantarum, 2007, 129, 519-528.	2.6	195
14	Placental Mitochondrial DNA Content and Particulate Air Pollution during <i>in Utero</i> Life. Environmental Health Perspectives, 2012, 120, 1346-1352.	2.8	191
15	House dust as possible route of environmental exposure to cadmium and lead in the adult general population. Environmental Research, 2007, 103, 30-37.	3.7	185
16	Cadmium-induced transcriptional and enzymatic alterations related to oxidative stress. Environmental and Experimental Botany, 2008, 63, 1-8.	2.0	181
17	Subcellular localization of cadmium in roots and leaves of Arabidopsis thaliana. New Phytologist, 2007, 173, 495-508.	3.5	177
18	Metal-Induced Oxidative Stress and Plant Mitochondria. International Journal of Molecular Sciences, 2011, 12, 6894-6918.	1.8	161

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19	Placental DNA hypomethylation in association with particulate air pollution in early life. Particle and Fibre Toxicology, 2013, 10, 22.	2.8	161
20	Leaf proteome responses of Arabidopsis thaliana exposed to mild cadmium stress. Journal of Plant Physiology, 2010, 167, 247-254.	1.6	155
21	Cadmium-induced ethylene production and responses in Arabidopsis thaliana rely on ACS2 and ACS6 gene expression. BMC Plant Biology, 2014, 14, 214.	1.6	152
22	Low cadmium exposure triggers a biphasic oxidative stress response in mice kidneys. Toxicology, 2007, 236, 29-41.	2.0	151
23	Peroxidases in roots and primary leaves of Phaseolus vulgaris Copper and Zinc Phytotoxicity: a comparison. Journal of Plant Physiology, 2002, 159, 869-876.	1.6	150
24	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.	1.6	135
25	Hydrogen Peroxide, Signaling in Disguise during Metal Phytotoxicity. Frontiers in Plant Science, 2016, 7, 470.	1.7	132
26	Exposure of Arabidopsis thaliana to Cd or Cu excess leads to oxidative stress mediated alterations in MAPKinase transcript levels. Environmental and Experimental Botany, 2012, 83, 53-61.	2.0	131
27	Mitogen-Activated Protein (MAP) Kinases in Plant Metal Stress: Regulation and Responses in Comparison to Other Biotic and Abiotic Stresses. International Journal of Molecular Sciences, 2012, 13, 7828-7853.	1.8	128
28	Copper affects the enzymes of the ascorbate-glutathione cycle and its related metabolites in the roots ofPhaseolus vulgaris. Physiologia Plantarum, 1999, 106, 262-267.	2.6	124
29	The redox status of plant cells (AsA and GSH) is sensitive to zinc imposed oxidative stress in roots and primary leaves of Phaseolus vulgaris. Plant Physiology and Biochemistry, 2001, 39, 657-664.	2.8	124
30	Biphasic effect of copper on the ascorbate-glutathione pathway in primary leaves of Phaseolus vulgaris seedlings during the early stages of metal assimilation. Physiologia Plantarum, 2000, 110, 512-517.	2.6	117
31	Cadmium and Plant Development: An Agony from Seed to Seed. International Journal of Molecular Sciences, 2019, 20, 3971.	1.8	114
32	Differential response of Arabidopsis leaves and roots to cadmium: Glutathione-related chelating capacity vs antioxidant capacity. Plant Physiology and Biochemistry, 2014, 83, 1-9.	2.8	110
33	Ethylene and Metal Stress: Small Molecule, Big Impact. Frontiers in Plant Science, 2016, 7, 23.	1.7	106
34	Physiological Responses to Heavy Metals in Higher Plants; Defence against Oxidative Stress. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 730-734.	0.6	103
35	Reliable Gene Expression Analysis by Reverse Transcription-Quantitative PCR: Reporting and Minimizing the Uncertainty in Data Accuracy Â. Plant Cell, 2014, 26, 3829-3837.	3.1	100
36	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.	1.1	97

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37	Yeast complementation reveals a role for anArabidopsis thalianalate embryogenesis abundant (LEA)-like protein in oxidative stress tolerance. Plant Journal, 2006, 48, 743-756.	2.8	96
38	Biomolecular Markers within the Core Axis of Aging and Particulate Air Pollution Exposure in the Elderly: A Cross-Sectional Study. Environmental Health Perspectives, 2016, 124, 943-950.	2.8	95
39	The Influence of Metal Stress on the Availability and Redox State of Ascorbate, and Possible Interference with Its Cellular Functions. International Journal of Molecular Sciences, 2013, 14, 6382-6413.	1.8	92
40	A comparative techno-economic assessment of biochar production from different residue streams using conventional and microwave pyrolysis. Bioresource Technology, 2020, 318, 124083.	4.8	91
41	MicroRNAs in Metal Stress: Specific Roles or Secondary Responses?. International Journal of Molecular Sciences, 2012, 13, 15826-15847.	1.8	90
42	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.	1.9	86
43	Changes in the population of seed bacteria of transgenerationally <scp><scp>Cd</scp></scp>â€exposed <i><scp>A</scp>rabidopsis thaliana</i>. Plant Biology, 2013, 15, 971-981.	1.8	84
44	Glutathione is a key antioxidant metabolite to cope with mercury and cadmium stress. Plant and Soil, 2014, 377, 369-381.	1.8	84
45	Beneficial effects of Trichoderma harzianum T-22 in tomato seedlings infected by Cucumber mosaic virus (CMV). BioControl, 2015, 60, 135-147.	0.9	73
46	Both the concentration and redox state of glutathione and ascorbate influence the sensitivity of arabidopsis to cadmium. Annals of Botany, 2015, 116, 601-612.	1.4	70
47	The Chemical Behaviour of Heavy Metals Plays a Prominent Role in the Induction of Oxidative Stress. Free Radical Research, 1999, 31, 34-38.	1.5	67
48	Oxidative stress reactions induced inÂbeans (PhaseolusÂvulgaris) following exposure toÂuranium. Plant Physiology and Biochemistry, 2006, 44, 795-805.	2.8	67
49	The Roots of Plant Frost Hardiness and Tolerance. Plant and Cell Physiology, 2020, 61, 3-20.	1.5	67
50	Understanding the development of roots exposed to contaminants and the potential of plant-associated bacteria for optimization of growth. Annals of Botany, 2012, 110, 239-252.	1.4	65
51	Critical evaluation and statistical validation of a hydroponic culture system for Arabidopsis thaliana. Plant Physiology and Biochemistry, 2008, 46, 212-218.	2.8	64
52	Dihydrofolate Reductase/Thymidylate Synthase Fine-Tunes the Folate Status and Controls Redox Homeostasis in Plants. Plant Cell, 2017, 29, 2831-2853.	3.1	64
53	Effects of uranium and phosphate concentrations on oxidative stress related responses induced in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2008, 46, 987-996.	2.8	63
54	Gene Networks Involved in Hormonal Control of Root Development in Arabidopsis thaliana: A Framework for Studying Its Disturbance by Metal Stress. International Journal of Molecular Sciences, 2015, 16, 19195-19224.	1.8	62

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55	Ethylene signalling is mediating the early cadmium-induced oxidative challenge in Arabidopsis thaliana. Plant Science, 2015, 239, 137-146.	1.7	59
56	Exposure of Arabidopsis thaliana to excess Zn reveals a Zn-specific oxidative stress signature. Environmental and Experimental Botany, 2012, 84, 61-71.	2.0	58
57	Decreased Mitochondrial DNA Content in Association with Exposure to Polycyclic Aromatic Hydrocarbons in House Dust during Wintertime: From a Population Enquiry to Cell Culture. PLoS ONE, 2013, 8, e63208.	1.1	57
58	Life-cycle chronic gamma exposure of Arabidopsis thaliana induces growth effects but no discernable effects on oxidative stress pathways. Plant Physiology and Biochemistry, 2010, 48, 778-786.	2.8	56
59	Placental mitochondrial DNA and CYP1A1 gene methylation as molecular signatures for tobacco smoke exposure in pregnant women and the relevance for birth weight. Journal of Translational Medicine, 2017, 15, 5.	1.8	56
60	Does long-term cadmium exposure influence the composition of pectic polysaccharides in the cell wall of Medicago sativa stems?. BMC Plant Biology, 2019, 19, 271.	1.6	56
61	Longâ€term cadmium exposure influences the abundance of proteins that impact the cell wall structure in <i>Medicago sativa</i> stems. Plant Biology, 2018, 20, 1023-1035.	1.8	54
62	Chitosan-elicited defense responses in Cucumber mosaic virus (CMV)-infected tomato plants. Journal of Plant Physiology, 2019, 234-235, 9-17.	1.6	54
63	Microwave assisted and conventional pyrolysis of MDF â€" Characterization of the produced biochars. Journal of Analytical and Applied Pyrolysis, 2019, 138, 218-230.	2.6	52
64	Dietary Sargassum fusiforme improves memory and reduces amyloid plaque load in an Alzheimerâ€™s disease mouse model. Scientific Reports, 2019, 9, 4908.	1.6	51
65	The role of the kinase <scp>OXI1</scp> in cadmiumâ€and copperâ€induced molecular responses in <i><scp>A</scp>rabidopsis thaliana</i>. Plant, Cell and Environment, 2013, 36, 1228-1238.	2.8	50
66	Effects of pH on uranium uptake and oxidative stress responses induced in <i>Arabidopsis thaliana</i>. Environmental Toxicology and Chemistry, 2013, 32, 2125-2133.	2.2	50
67	The Effect of Long-Term Cd and Ni Exposure on Seed Endophytes of<i>Agrostis capillaris</i>and Their Potential Application in Phytoremediation of Metal-Contaminated Soils. International Journal of Phytoremediation, 2014, 16, 643-659.	1.7	46
68	The combined effect of uranium and gamma radiation on biological responses and oxidative stress induced in Arabidopsis thaliana. Journal of Environmental Radioactivity, 2010, 101, 923-930.	0.9	44
69	Toxicity responses of Cu and Cd: the involvement of miRNAs and the transcription factor SPL7. BMC Plant Biology, 2016, 16, 145.	1.6	44
70	A mutant of the Arabidopsis thaliana LIPOXYGENASE1 gene shows altered signalling and oxidative stress related responses after cadmium exposure. Plant Physiology and Biochemistry, 2013, 63, 272-280.	2.8	43
71	Mycorrhization protects Betula pubescens Ehr. from metal-induced oxidative stress increasing its tolerance to grow in an industrial polluted soil. Journal of Hazardous Materials, 2017, 336, 119-127.	6.5	42
72	Dehydroascorbate uptake is impaired in the early response of Arabidopsis plant cell cultures to cadmium. Journal of Experimental Botany, 2007, 58, 4307-4317.	2.4	41

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73	Study of oxidative stress related responses induced in Arabidopsis thaliana following mixed exposure to uranium and cadmium. Plant Physiology and Biochemistry, 2010, 48, 879-886.	2.8	41
74	Ethylene biosynthesis is involved in the early oxidative challenge induced by moderate Cd exposure in Arabidopsis thaliana. Environmental and Experimental Botany, 2015, 117, 1-11.	2.0	41
75	Cadmiumâ€induced and transâ€generational changes in the cultivable and total seed endophytic community of <i>Arabidopsis thaliana</i>. Plant Biology, 2016, 18, 376-381.	1.8	41
76	Changes in the Proteome of Medicago sativa Leaves in Response to Long-Term Cadmium Exposure Using a Cell-Wall Targeted Approach. International Journal of Molecular Sciences, 2018, 19, 2498.	1.8	41
77	Analysis of bean (Phaseolus vulgaris L.) proteins affected by copper stress. Journal of Plant Physiology, 2005, 162, 383-392.	1.6	38
78	ALTERNATIVE OXIDASE1a modulates the oxidative challenge during moderate Cd exposure in Arabidopsis thaliana leaves. Journal of Experimental Botany, 2015, 66, 2967-2977.	2.4	38
79	Glutathione: A key player in metal chelation, nutrient homeostasis, cell cycle regulation and the DNA damage response in cadmium-exposed Arabidopsis thaliana. Plant Physiology and Biochemistry, 2020, 154, 498-507.	2.8	38
80	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.	0.9	37
81	URANIUM INDUCED EFFECTS ON DEVELOPMENT AND MINERAL NUTRITION OF<i>ARABIDOPSIS THALIANA</i>. Journal of Plant Nutrition, 2011, 34, 1940-1956.	0.9	36
82	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.	0.9	35
83	At the Crossroads of Survival and Death: The Reactive Oxygen Speciesâ€“Ethyleneâ€“Sugar Triad and the Unfolded Protein Response. Trends in Plant Science, 2021, 26, 338-351.	4.3	34
84	Spatial analysis of the rice leaf growth zone under controlled and cadmium-exposed conditions. Environmental and Experimental Botany, 2020, 177, 104120.	2.0	34
85	Survival of Cd-exposed Arabidopsis thaliana: Are these plants reproductively challenged?. Plant Physiology and Biochemistry, 2011, 49, 1084-1091.	2.8	33
86	A glimpse into the effect of sulfur supply on metabolite profiling, glutathione and phytochelatins in Panicum maximum cv. Massai exposed to cadmium. Environmental and Experimental Botany, 2018, 151, 76-88.	2.0	33
87	Physiological and molecular characterisation of cadmium stress in Schmidtea mediterranea. International Journal of Developmental Biology, 2012, 56, 183-191.	0.3	32
88	Metabolic responses of Arabidopsis thaliana roots and leaves to sublethal cadmium exposure are differentially influenced by ALTERNATIVE OXIDASE1a. Environmental and Experimental Botany, 2016, 124, 64-78.	2.0	32
89	Cdâ€induced Cu deficiency responses in <i>Arabidopsis thaliana</i>: are phytochelatins involved?. Plant, Cell and Environment, 2017, 40, 390-400.	2.8	32
90	Antioxidants in Plants: A Valorization Potential Emphasizing the Need for the Conservation of Plant Biodiversity in Cuba. Antioxidants, 2020, 9, 1048.	2.2	32

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91	Antioxidants in Erica andevalensis: A comparative study between wild plants and cadmium-exposed plants under controlled conditions. Plant Physiology and Biochemistry, 2011, 49, 110-115.	2.8	31
92	Cadmium and Copper Stress Induce a Cellular Oxidative Challenge Leading to Damage Versus Signalling. , 2012, , 65-90.		31
93	Molecular responses in the telomere-mitochondrial axis of ageing in the elderly: A candidate gene approach. Mechanisms of Ageing and Development, 2015, 145, 51-57.	2.2	31
94	New insights about cadmium impacts on tomato: Plant acclimation, nutritional changes, fruit quality and yield. Food and Energy Security, 2018, 7, e00131.	2.0	31
95	Adequate S supply reduces the damage of high Cd exposure in roots and increases N, S and Mn uptake by Massai grass grown in hydroponics. Environmental and Experimental Botany, 2018, 148, 35-46.	2.0	31
96	Alternative respiration as a primary defence during cadmium-induced mitochondrial oxidative challenge in Arabidopsis thaliana. Environmental and Experimental Botany, 2013, 91, 63-73.	2.0	30
97	Relationship between Mg, B and Mn status and tomato tolerance against Cd toxicity. Journal of Environmental Management, 2019, 240, 84-92.	3.8	30
98	Response to oxidative stress induced by cadmium and copper in tobacco plants (Nicotiana tabacum) engineered with the trehalose-6-phosphate synthase gene (AtTPS1). Acta Physiologiae Plantarum, 2014, 36, 755-765.	1.0	29
99	Photosynthetic Performance of the Imidazolinone Resistant Sunflower Exposed to Single and Combined Treatment by the Herbicide Imazamox and an Amino Acid Extract. Frontiers in Plant Science, 2016, 7, 1559.	1.7	29
100	Cell cycle regulation in different leaves of Arabidopsis thaliana plants grown under control and cadmium-exposed conditions. Environmental and Experimental Botany, 2018, 155, 441-452.	2.0	29
101	Arabidopsis plants exposed to gamma radiation in two successive generations show a different oxidative stress response. Journal of Environmental Radioactivity, 2016, 165, 270-279.	0.9	28
102	A novel, highly conserved metallothionein family in basidiomycete fungi and characterization of two representative <i>SlMTa</i> and <i>SlMTb</i> genes in the ectomycorrhizal fungus <i>Suillus luteus</i>. Environmental Microbiology, 2017, 19, 2577-2587.	1.8	26
103	Oxidative stress responses induced by uranium exposure at low pH inÂleaves of Arabidopsis thaliana plants. Journal of Environmental Radioactivity, 2015, 150, 36-43.	0.9	24
104	Identification, evolution and functional characterization of two Zn CDFâ€family transporters of the ectomycorrhizal fungus <i>Suillus luteus</i>. Environmental Microbiology Reports, 2017, 9, 419-427.	1.0	24
105	Suppressor of Gamma Response 1 Modulates the DNA Damage Response and Oxidative Stress Response in Leaves of Cadmium-Exposed Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 366.	1.7	24
106	Cadmium inhibits cell cycle progression and specifically accumulates in the maize leaf meristem. Journal of Experimental Botany, 2020, 71, 6418-6428.	2.4	23
107	The pH strongly influences the uranium-induced effects on the photosynthetic apparatus of Arabidopsis thaliana plants. Plant Physiology and Biochemistry, 2014, 82, 254-261.	2.8	22
108	The effects of the growth substrate on cultivable and total endophytic assemblages of Arabidopsis thaliana. Plant and Soil, 2016, 405, 325-336.	1.8	22

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109	Integrative response of arsenic uptake, speciation and detoxification by Salix atrocinerea. Science of the Total Environment, 2019, 689, 422-433.	3.9	22
110	Soil-Plant Relationships of Heavy Metals and Metalloids. Environmental Pollution, 2013, , 161-193.	0.4	21
111	Changes in DNA Methylation in Arabidopsis thaliana Plants Exposed Over Multiple Generations to Gamma Radiation. Frontiers in Plant Science, 2021, 12, 611783.	1.7	21
112	Possible involvement of glutathione S-transferases in imazamox detoxification in an imidazolinone-resistant sunflower hybrid. Journal of Plant Physiology, 2018, 221, 62-65.	1.6	20
113	Problems inherent to a meta-analysis of proteomics data: A case study on the plants' response to Cd in different cultivation conditions. Journal of Proteomics, 2014, 108, 30-54.	1.2	19
114	Biological effects of Î±-radiation exposure by 241Am in Arabidopsis thaliana seedlings are determined both by dose rate and 241Am distribution. Journal of Environmental Radioactivity, 2015, 149, 51-63.	0.9	19
115	Molecular and Cellular Aspects of Contaminant Toxicity in Plants. Advances in Botanical Research, 2017, , 223-276.	0.5	19
116	Induction of Oxidative Stress and Antioxidative Mechanisms in Arabidopsis thaliana after Uranium Exposure at pH 7.5. International Journal of Molecular Sciences, 2015, 16, 12405-12423.	1.8	18
117	The influence of EDDS on the metabolic and transcriptional responses induced by copper in hydroponically grown Brassica carinata seedlings. Plant Physiology and Biochemistry, 2012, 55, 43-51.	2.8	17
118	Enzymatic antioxidantsâ€"Relevant or not to protect the photosynthetic system against cadmium-induced stress in Massai grass supplied with sulfur?. Environmental and Experimental Botany, 2018, 155, 702-717.	2.0	17
119	Poly(lactic acid) bio-composites containing biochar particles: Effects of fillers and plasticizer on crystallization and thermal properties. EXPRESS Polymer Letters, 2021, 15, 343-360.	1.1	17
120	Reference genes for qPCR assays in toxic metal and salinity stress in two flatworm model organisms. Ecotoxicology, 2012, 21, 475-484.	1.1	16
121	An organ-based approach to dose calculation in the assessment of dose-dependent biological effects of ionising radiation in Arabidopsis thaliana. Journal of Environmental Radioactivity, 2014, 133, 24-30.	0.9	16
122	Arabidopsis thaliana seedlings show an age-dependent response on growth and DNA repair after exposure to chronic Î³-radiation. Environmental and Experimental Botany, 2015, 109, 122-130.	2.0	16
123	Mung bean seedlings as bio-indicators for soil and water contamination by cadmium. Science of the Total Environment, 1997, 203, 183-197.	3.9	15
124	Tolerance of Two Hydroponically Grown<i>Salix</i>Genotypes to Excess Zinc. Journal of Plant Nutrition, 2007, 30, 1471-1482.	0.9	15
125	Child's buccal cell mitochondrial DNA content modifies the association between heart rate variability and recent air pollution exposure at school. Environment International, 2019, 123, 39-49.	4.8	15
126	Identifying the Pressure Points of Acute Cadmium Stress Prior to Acclimation in Arabidopsis thaliana. International Journal of Molecular Sciences, 2020, 21, 6232.	1.8	15

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127	Short-term effects of cadmium on leaf growth and nutrient transport in rice plants. Plant Science, 2021, 313, 111054.	1.7	15
128	Renal cells exposed to cadmium <i>in vitro</i> and <i>in vivo</i>: normalizing gene expression data. Journal of Applied Toxicology, 2015, 35, 478-484.	1.4	14
129	Long-Term Cd Exposure Alters the Metabolite Profile in Stem Tissue of Medicago sativa. Cells, 2020, 9, 2707.	1.8	14
130	Numerical prediction of the mean residence time of solid materials in a pilot-scale rotary kiln. Powder Technology, 2019, 354, 392-401.	2.1	13
131	MiRNA398b and miRNA398c are involved in the regulation of the SOD response in uranium-exposed Arabidopsis thaliana roots. Environmental and Experimental Botany, 2015, 116, 12-19.	2.0	12
132	The functional role of the photosynthetic apparatus in the recovery of Brassica napus plants from pre-emergent metazachlor exposure. Journal of Plant Physiology, 2016, 196-197, 99-105.	1.6	12
133	Shortâ€term phytotoxicity in <i>Brassica napus</i> (L.) in response to preâ€emergently applied metazachlor: A microcosm study. Environmental Toxicology and Chemistry, 2017, 36, 59-70.	2.2	12
134	Accession-specific life strategies affect responses in leaves of Arabidopsis thaliana plants exposed to excess Cu and Cd. Journal of Plant Physiology, 2018, 223, 37-46.	1.6	12
135	Selection of Appropriate Reference Genes for Gene Expression Analysis under Abiotic Stresses in Salix viminalis. International Journal of Molecular Sciences, 2019, 20, 4210.	1.8	12
136	Arsenate-reducing bacteria affect As accumulation and tolerance in Salix atrocinerea. Science of the Total Environment, 2021, 769, 144648.	3.9	12
137	Effect of low-dose chronic gamma exposure on growth and oxidative stress related responses in<i>Arabidopsis thaliana</i>. Radioprotection, 2009, 44, 487-491.	0.5	11
138	Effect of Copper on Antioxidant Enzyme Activities and Mineral Nutrition of White Lupin Plants Grown in Nutrient Solution. Journal of Plant Nutrition, 2009, 32, 1882-1900.	0.9	11
139	Study of biological effects and oxidative stress related responses in gamma irradiated<i>Arabidopsis thaliana</i>plants. Radioprotection, 2011, 46, S401-S407.	0.5	11
140	Bioâ€Based Poly(3-hydroxybutyrate)/Thermoplastic Starch Composites as a Host Matrix for Biochar Fillers. Journal of Polymers and the Environment, 2021, 29, 2478-2491.	2.4	10
141	The responses and recovery after gamma irradiation are highly dependent on leaf age at the time of exposure in rice (Oryza sativa L.). Environmental and Experimental Botany, 2019, 162, 157-167.	2.0	8
142	Efficient regulation of copper homeostasis underlies accession-specific sensitivities to excess copper and cadmium in roots of Arabidopsis thaliana. Journal of Plant Physiology, 2021, 261, 153434.	1.6	8
143	Proline Exogenously Supplied or Endogenously Overproduced Induces Different Nutritional, Metabolic, and Antioxidative Responses in Transgenic Tobacco Exposed to Cadmium. Journal of Plant Growth Regulation, 0, , 1.	2.8	8
144	ACCERBATIN, a small molecule at the intersection of auxin and reactive oxygen species homeostasis with herbicidal properties. Journal of Experimental Botany, 2017, 68, 4185-4203.	2.4	7

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145	Glutathione Is Required for the Early Alert Response and Subsequent Acclimation in Cadmium-Exposed Arabidopsis thaliana Plants. Antioxidants, 2022, 11, 6.	2.2	7
146	Helical and linear morphotypes of <i>Arthrospira</i> sp. PCC 8005 display genomic differences and respond differently to ⁶⁰Co gamma irradiation. European Journal of Phycology, 2020, 55, 129-146.	0.9	6
147	Arabidopsis root growth and development under metal exposure presented in an adverse outcome pathway framework. Plant, Cell and Environment, 2021, , .	2.8	6
148	Quantitative Expression Analysis in Brassica napus by Northern Blot Analysis and Reverse Transcription-Quantitative PCR in a Complex Experimental Setting. PLoS ONE, 2016, 11, e0163679.	1.1	6
149	Essential trace metals in plant responses to heat stress. Journal of Experimental Botany, 2022, 73, 1775-1788.	2.4	6
150	Imazamox detoxification and recovery of plants after application of imazamox to an imidazolinone resistant sunflower hybrid. Biologia Plantarum, 0, 64, 335-342.	1.9	5
151	Calcium affects uranium responses in Arabidopsis thaliana: From distribution to toxicity. Plant Physiology and Biochemistry, 2022, 185, 101-111.	2.8	5
152	A dynamic dosimetry model for radioactive exposure scenarios in Arabidopsis thaliana. Journal of Theoretical Biology, 2014, 347, 54-62.	0.8	4
153	Toxic effects of cadmium on flatworm stem cell dynamics: A transcriptomic and ultrastructural elucidation of underlying mechanisms. Environmental Toxicology, 2016, 31, 1217-1228.	2.1	4
154	Systems Biology of Metal Tolerance in Plants: A Case Study on the Effects of Cd Exposure on Two Model Plants. , 2019, , 23-37.		4
155	Chemical and Pharmacological Potential of Coccoloba cowellii, an Endemic Endangered Plant from Cuba. Molecules, 2021, 26, 935.	1.7	4
156	Redox-Related Mechanisms to Rebalance Cancer-Deregulated Cell Growth. Current Drug Targets, 2016, 17, 1414-1437.	1.0	4
157	Essential trace metals: micronutrients with large impact. Journal of Experimental Botany, 2022, 73, 1685-1687.	2.4	4
158	Antifungal Activity of Extracts, Fractions, and Constituents from Coccoloba cowellii Leaves. Pharmaceuticals, 2021, 14, 917.	1.7	3
159	Induction of oxidative stress related responses in<i>Arabidopsis thaliana</i>following uranium exposure. Radioprotection, 2009, 44, 191-196.	0.5	3
160	Magnetically treated water on phytochemical compounds of Rosmarinus officinalis L.. International Journal of Environment Agriculture and Biotechnology, 2018, 3, 297-303.	0.0	3
161	Glutathione Metabolism in Plants Under Metal and Metalloid Stress and its Impact on the Cellular Redox Homoeostasis. , 2016, , 159-181.		2
162	Exposing mice to low Cd doses triggers a biphasic oxidative stress response in the kidney: a role for Prdx2 and Nox4?. FASEB Journal, 2007, 21, A452.	0.2	2

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163	Assessment of the Antioxidative Potential of Rosmarinus officinalis L. (Lamiaceae) Irrigated with Static Magnetic Field-Treated Water. Brazilian Archives of Biology and Technology, 0, 63, .	0.5	2
164	Magnetically treated water influences soil properties, water absorption and nutrients in Beta vulgaris L.. Research, Society and Development, 2022, 11, e45111730203.	0.0	2
165	Biochemical and Functional Responses of Arabidopsis thaliana Exposed to Cadmium, Copper and Zinc. Environmental Pollution, 2012, , 239-263.	0.4	1
166	Biostimulation of Vigna unguiculata subsp. sesquipedalisâ€"Cultivar Sesquipedalis (Yardlong Bean)â€"by Brevibacillus sp. B65 in Organoponic Conditions. Current Microbiology, 2021, 78, 1882-1891.	1.0	1
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