

Luigi Sanita di Toppi

List of Publications by Citations

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63

papers

4,219

citations

31

h-index

64

g-index

68

ext. papers

4,657

ext. citations

4.9

avg, IF

5.33

L-index

#	Paper	IF	Citations
63	Response to cadmium in higher plants. <i>Environmental and Experimental Botany</i> , 1999 , 41, 105-130	5.9	1633
62	Nitric oxide is involved in cadmium-induced programmed cell death in Arabidopsis suspension cultures. <i>Plant Physiology</i> , 2009 , 150, 217-28	6.6	216
61	Increase in ascorbate-glutathione metabolism as local and precocious systemic responses induced by cadmium in durum wheat plants. <i>Plant and Cell Physiology</i> , 2008 , 49, 362-74	4.9	171
60	Overexpression of Arabidopsis phytochelatin synthase in tobacco plants enhances Cd(2+) tolerance and accumulation but not translocation to the shoot. <i>Planta</i> , 2006 , 223, 180-90	4.7	158
59	Cadmium tolerance in Brassica juncea roots and shoots is affected by antioxidant status and phytochelatin biosynthesis. <i>Plant Physiology and Biochemistry</i> , 2012 , 57, 15-22	5.4	152
58	Cadmium tolerance and phytochelatin content of Arabidopsis seedlings over-expressing the phytochelatin synthase gene AtPCS1. <i>Journal of Experimental Botany</i> , 2011 , 62, 5509-19	7	111
57	Oxidative stress and phytochelatin characterisation in bread wheat exposed to cadmium excess. <i>Plant Physiology and Biochemistry</i> , 2005 , 43, 45-54	5.4	100
56	Response of barley plants to Fe deficiency and Cd contamination as affected by S starvation. <i>Journal of Experimental Botany</i> , 2012 , 63, 1241-50	7	87
55	Response to cadmium in carrot in vitro plants and cell suspension cultures. <i>Plant Science</i> , 1998 , 137, 119-129	5.39	75
54	Recovery in apple trees infected with the apple proliferation phytoplasma: an ultrastructural and biochemical study. <i>Phytopathology</i> , 2004 , 94, 203-8	3.8	73
53	Correlation between hormonal homeostasis and morphogenic responses in Arabidopsis thaliana seedlings growing in a Cd/Cu/Zn multi-pollution context. <i>Physiologia Plantarum</i> , 2013 , 149, 487-98	4.6	63
52	On the role of HO in the recovery of grapevine (Vitis vinifera cv. Prosecco) from Flavescence dorée disease. <i>Functional Plant Biology</i> , 2007 , 34, 750-758	2.7	63
51	Overexpression of AtPCS1 in tobacco increases arsenic and arsenic plus cadmium accumulation and detoxification. <i>Planta</i> , 2016 , 243, 605-22	4.7	62
50	Lichens respond to heavy metals by phytochelatin synthesis. <i>New Phytologist</i> , 2002 , 156, 95-102	9.8	60
49	Proteomic analysis as a tool for investigating arsenic stress in Pteris vittata roots colonized or not by arbuscular mycorrhizal symbiosis. <i>Journal of Proteomics</i> , 2011 , 74, 1338-50	3.9	55
48	Hydrogen peroxide localization and antioxidant status in the recovery of apricot plants from European Stone Fruit Yellows. <i>European Journal of Plant Pathology</i> , 2005 , 112, 53-61	2.1	53
47	Antifungal activity of diketopiperazines extracted from Alternaria alternata against Plasmopara viticola: an ultrastructural study. <i>Micron</i> , 2007 , 38, 643-50	2.3	52

46	Genome-wide inventory of metal homeostasis-related gene products including a functional phytochelatin synthase in the hypogeous mycorrhizal fungus <i>Tuber melanosporum</i> . <i>Fungal Genetics and Biology</i> , 2011 , 48, 573-84	3.9	45
45	Inhibition of Sporulation and Ultrastructural Alterations of Grapevine Downy Mildew by the Endophytic Fungus <i>Alternaria alternata</i> . <i>Phytopathology</i> , 2006 , 96, 689-98	3.8	45
44	A Cd/Fe/Zn-responsive phytochelatin synthase is constitutively present in the ancient liverwort <i>Lunularia cruciata</i> (L.) dumort. <i>Plant and Cell Physiology</i> , 2014 , 55, 1884-91	4.9	42
43	Elevated atmospheric CO ₂ decreases oxidative stress and increases essential oil yield in leaves of <i>Thymus vulgaris</i> grown in a mini-FACE system. <i>Environmental and Experimental Botany</i> , 2009 , 65, 99-106	5.9	41
42	Different compensatory mechanisms in two metal-accumulating aquatic macrophytes exposed to acute cadmium stress in outdoor artificial lakes. <i>Chemosphere</i> , 2007 , 68, 769-80	8.4	41
41	The capability to synthesize phytochelatin synthases and the presence of constitutive and functional phytochelatin synthases are ancestral (plesiomorphic) characters for basal land plants. <i>Journal of Experimental Botany</i> , 2014 , 65, 1153-63	7	37
40	EFFECTS OF HEXAVALENT CHROMIUM ON MAIZE, TOMATO, AND CAULIFLOWER PLANTS. <i>Journal of Plant Nutrition</i> , 2002 , 25, 701-717	2.3	37
39	Cadmium tolerance, cysteine and thiol peptide levels in wild type and chromium-tolerant strains of <i>Scenedesmus acutus</i> (Chlorophyceae). <i>Aquatic Toxicology</i> , 2004 , 68, 315-23	5.1	36
38	The symbiosis between <i>Nicotiana tabacum</i> and the endomycorrhizal fungus <i>Funneliformis mosseae</i> increases the plant glutathione level and decreases leaf cadmium and root arsenic contents. <i>Plant Physiology and Biochemistry</i> , 2015 , 92, 11-8	5.4	34
37	Phosphorus and metal removal combined with lipid production by the green microalga <i>Desmodesmus</i> sp.: An integrated approach. <i>Plant Physiology and Biochemistry</i> , 2018 , 125, 45-51	5.4	34
36	Identification of in vivo nitrosylated phytochelatin synthases in <i>Arabidopsis thaliana</i> cells by liquid chromatography-direct electrospray-linear ion trap-mass spectrometry. <i>Journal of Chromatography A</i> , 2010 , 1217, 4120-6	4.5	33
35	Responses of <i>Xanthoria parietina</i> thalli to environmentally relevant concentrations of hexavalent chromium. <i>Functional Plant Biology</i> , 2004 , 31, 329-338	2.7	32
34	Cell wall immobilisation and antioxidant status of <i>Xanthoria parietina</i> thalli exposed to cadmium. <i>Functional Plant Biology</i> , 2005 , 32, 611-618	2.7	31
33	Cadmium distribution and effects on ultrastructure and chlorophyll status in photobionts and mycobionts of <i>Xanthoria parietina</i> . <i>Microscopy Research and Technique</i> , 2005 , 66, 229-38	2.8	30
32	The morphogenic responses and phytochelatin complexes induced by arsenic in <i>Pteris vittata</i> change in the presence of cadmium. <i>Environmental and Experimental Botany</i> , 2017 , 133, 176-187	5.9	29
31	Differential responses to Cr(VI)-induced oxidative stress between Cr-tolerant and wild-type strains of <i>Scenedesmus acutus</i> (Chlorophyceae). <i>Aquatic Toxicology</i> , 2006 , 79, 132-9	5.1	29
30	Response to copper stress in aposymbiotically grown lichen mycobiont <i>Cladonia cristatella</i> : uptake, viability, ergosterol and production of non-protein thiols. <i>Mycological Research</i> , 2006 , 110, 994-9		28
29	Effects of Cadmium Stress on Hairy Roots of <i>Daucus carota</i> . <i>Journal of Plant Physiology</i> , 1999 , 154, 385-396		27

28	Iron deficiency induces sulfate uptake and modulates redistribution of reduced sulfur pool in barley plants. <i>Functional Plant Biology</i> , 2006 , 33, 1055-1061	2.7	24
27	The Knockout Mutant for () Is Defective in Callose Deposition, Bacterial Pathogen Defense and Auxin Content, But Shows an Increased Stem Lignification. <i>Frontiers in Plant Science</i> , 2018 , 9, 19	6.2	23
26	Phytoplasma infection in tomato is associated with re-organization of plasma membrane, ER stacks, and actin filaments in sieve elements. <i>Frontiers in Plant Science</i> , 2015 , 6, 650	6.2	23
25	A bifasic response to cadmium stress in carrot: Early acclimatory mechanisms give way to root collapse further to prolonged metal exposure. <i>Plant Physiology and Biochemistry</i> , 2012 , 58, 269-79	5.4	23
24	First and second line mechanisms of cadmium detoxification in the lichen photobiont <i>Trebouxia impressa</i> (Chlorophyta). <i>Environmental Pollution</i> , 2008 , 151, 280-6	9.3	22
23	An integrated approach to highlight biological responses of <i>Pisum sativum</i> root to nano-TiO exposure in a biosolid-amended agricultural soil. <i>Science of the Total Environment</i> , 2019 , 650, 2705-2716	10.2	22
22	Phytochelatin govern zinc/copper homeostasis and cadmium detoxification in <i>Cuscuta campestris</i> parasitizing <i>Daucus carota</i> . <i>Environmental and Experimental Botany</i> , 2011 , 72, 26-33	5.9	20
21	Antioxidant status in herbaceous plants growing under elevated CO ₂ in mini-FACE rings. <i>Journal of Plant Physiology</i> , 2002 , 159, 1005-1013	3.6	20
20	Occurrence of different inter-varietal and inter-organ defence strategies towards supra-optimal zinc concentrations in two cultivars of <i>Triticum aestivum</i> L.. <i>Environmental and Experimental Botany</i> , 2009 , 66, 220-229	5.9	19
19	AQUA1 is a mercury sensitive poplar aquaporin regulated at transcriptional and post-translational levels by Zn stress. <i>Plant Physiology and Biochemistry</i> , 2019 , 135, 588-600	5.4	18
18	Water availability modifies tolerance to photo-oxidative pollutants in transplants of the lichen <i>Flavoparmelia caperata</i> . <i>Oecologia</i> , 2012 , 168, 589-99	2.9	17
17	The phytochelatin synthase from <i>Nitella mucronata</i> (Charophyta) plays a role in the homeostatic control of iron(II)/(III). <i>Plant Physiology and Biochemistry</i> , 2018 , 127, 88-96	5.4	16
16	The Moss Counteracts Severe Cadmium Stress by Activation of Glutathione Transferase and Phytochelatin Synthase, but Slightly by Phytochelatin. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	15
15	Proteomic analysis in the lichen <i>Physcia adscendens</i> exposed to cadmium stress. <i>Environmental Pollution</i> , 2008 , 156, 1121-7	9.3	14
14	Characterization and quantification of thiol-peptides in <i>Arabidopsis thaliana</i> using combined dilution and high sensitivity HPLC-ESI-MS-MS. <i>Phytochemistry</i> , 2019 , 164, 215-222	4	13
13	Eukaryotic and Prokaryotic Phytochelatin Synthases Differ Less in Functional Terms Than Previously Thought: A Comparative Analysis of and sp. PCC 7407. <i>Plants</i> , 2020 , 9,	4.5	11
12	Production of ribosome-inactivating protein from hairy root cultures of <i>Luffa cylindrica</i> (L.) Roem. <i>Plant Cell Reports</i> , 1996 , 15, 910-3	5.1	10
11	Evolution and functional differentiation of recently diverged phytochelatin synthase genes from <i>Arundo donax</i> L. <i>Journal of Experimental Botany</i> , 2019 , 70, 5391-5405	7	9

10	Arsenic accumulation and thiol status in lichens exposed to As(V) in controlled conditions. <i>BioMetals</i> , 2010 , 23, 207-19	3.4	9
9	Cucurbita pepo L. can be transformed by Agrobacterium rhizogenes. <i>Plant Cell, Tissue and Organ Culture</i> , 1997 , 51, 89-93	2.7	9
8	Ancestral function of the phytochelatin synthase C-terminal domain in inhibition of heavy metal-mediated enzyme overactivation. <i>Journal of Experimental Botany</i> , 2020 , 71, 6655-6669	7	8
7	Responses to Cadmium in Early-Diverging Streptophytes (Charophytes and Bryophytes): Current Views and Potential Applications. <i>Plants</i> , 2021 , 10,	4.5	7
6	Retaining unlogged patches in Mediterranean oak forests may preserve threatened forest macrolichens. <i>IForest</i> , 2019 , 12, 187-192	1.3	6
5	Does air pollution influence the success of species translocation? Trace elements, ultrastructure and photosynthetic performances in transplants of a threatened forest macrolichen. <i>Ecological Indicators</i> , 2020 , 117, 106666	5.8	5
4	Elevated CO ₂ Reduces Vessel Diameter and Lignin Deposition in Some Legume Plants Grown in Mini-FACE Rings. <i>Biologia Plantarum</i> , 2003 , 46, 243-249	2.1	2
3	Biological responses to heavy metal stress in the moss <i>Leptodictyum riparium</i> (Hedw.) Warnst.. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 229, 113078	7	2
2	Aluminum effects on embryo suspensor polytene chromosomes of <i>Phaseolus coccineus</i> L. <i>Plant Biosystems</i> , 2018 , 152, 880-888	1.6	1
1	Tools for In Vitro Propagation/Synchronization of the Liverwort <i>Marchantia polymorpha</i> and Application of a Validated HPLC-ESI-MS-MS Method for Glutathione and Phytochelatin Analysis. <i>Stresses</i> , 2022 , 2, 136-145		1