David G Mendoza-Cozatl

List of Publications by Year
in descending order

38 papers	2,980 citations	304602 22 h-index	330025 37 g-index
54 all docs	54 docs citations	54 times ranked	3607 citing authors

#	Article	IF	Citations
1	Arsenic tolerance in <i>Arabidopsis</i> is mediated by two ABCC-type phytochelatin transporters. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21187-21192.	3.3	555
2	Long-distance transport, vacuolar sequestration, tolerance, and transcriptional responses induced by cadmium and arsenic. Current Opinion in Plant Biology, 2011, 14, 554-562.	3.5	366
3	Sulfur assimilation and glutathione metabolism under cadmium stress in yeast, protists and plants. FEMS Microbiology Reviews, 2005, 29, 653-671.	3.9	364
4	Identification of high levels of phytochelatins, glutathione and cadmium in the phloem sap of <i>Brassica napus</i>. A role for thiolâ€peptides in the longâ€distance transport of cadmium and the effect of cadmium on iron translocation. Plant Journal, 2008, 54, 249-259.	2.8	311
5	OPT3 Is a Component of the Iron-Signaling Network between Leaves and Roots and Misregulation of OPT3 Leads to an Over-Accumulation of Cadmium in Seeds. Molecular Plant, 2014, 7, 1455-1469.	3.9	135
6	Phytochelatinâ€“metal(loid) transport into vacuoles shows different substrate preferences in barley and <i><scp>A</scp>rabidopsis</i>. Plant, Cell and Environment, 2014, 37, 1192-1201.	2.8	134
7	Control of glutathione and phytochelatin synthesis under cadmium stress. Pathway modeling for plants. Journal of Theoretical Biology, 2006, 238, 919-936.	0.8	111
8	Tonoplast-localized Abc2 Transporter Mediates Phytochelatin Accumulation in Vacuoles and Confers Cadmium Tolerance. Journal of Biological Chemistry, 2010, 285, 40416-40426.	1.6	87
9	Common Bean: A Legume Model on the Rise for Unraveling Responses and Adaptations to Iron, Zinc, and Phosphate Deficiencies. Frontiers in Plant Science, 2016, 7, 600.	1.7	77
10	Changes in iron availability in Arabidopsis are rapidly sensed in the leaf vasculature and impaired sensing leads to opposite transcriptional programs in leaves and roots. Plant, Cell and Environment, 2018, 41, 2263-2276.	2.8	68
11	Cadmium accumulation in the chloroplast ofEuglena gracilis. Physiologia Plantarum, 2002, 115, 276-283.	2.6	66
12	ARS5 is a component of the 26S proteasome complex, and negatively regulates thiol biosynthesis and arsenic tolerance in Arabidopsis. Plant Journal, 2009, 59, 802-813.	2.8	64
13	Feedback inhibition by thiols outranks glutathione depletion: a luciferaseâ€based screen reveals glutathioneâ€deficient Î³â€ECS and glutathione synthetase mutants impaired in cadmiumâ€induced sulfate assimilation. Plant Journal, 2012, 70, 783-795.	2.8	60
14	Cd2+ transport and storage in the chloroplast of Euglena gracilis. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1706, 88-97.	0.5	58
15	Cell wall composition affects Cd2+ accumulation and intracellular thiol peptides in marine red algae. Aquatic Toxicology, 2007, 81, 65-72.	1.9	46
16	Hydroponics: A Versatile System to Study Nutrient Allocation and Plant Responses to Nutrient Availability and Exposure to Toxic Elements. Journal of Visualized Experiments, 2016, , .	0.2	45
17	Moving toward a precise nutrition: preferential loading of seeds with essential nutrients over non-essential toxic elements. Frontiers in Plant Science, 2014, 5, 51.	1.7	42
18	Expression of a dominantâ€negative AtNEETâ€H89C protein disrupts ironâ€“sulfur metabolism and iron homeostasis in Arabidopsis. Plant Journal, 2020, 101, 1152-1169.	2.8	41

#	Article	IF	Citations
19	Moderate to severe water limitation differentially affects the phenome and ionome of Arabidopsis. Functional Plant Biology, 2017, 44, 94.	1.1	35
20	Phytochelatin-cadmium-sulfide high-molecular-mass complexes of Euglenaâ€ƒgracilis. FEBS Journal, 2006, 273, 5703-5713.	2.2	34
21	Copper uptake mechanism of Arabidopsis thaliana high-affinity COPT transporters. Protoplasma, 2019, 256, 161-170.	1.0	31
22	Cross species multiâ€omics reveals cell wall sequestration and elevated global transcript abundance as mechanisms of boron tolerance in plants. New Phytologist, 2021, 230, 1985-2000.	3.5	25
23	Identification of AtOPT4 as a Plant Glutathione Transporter. Molecular Plant, 2016, 9, 481-484.	3.9	24
24	Keep talking: crosstalk between iron and sulfur networks fine-tunes growth and development to promote survival under iron limitation. Journal of Experimental Botany, 2019, 70, 4197-4210.	2.4	22
25	Thiol peptides induction in the seagrass Thalassia testudinum (Banks ex KÃ¶nig) in response to cadmium exposure. Aquatic Toxicology, 2008, 86, 12-19.	1.9	20
26	Elemental Concentrations in the Seed of Mutants and Natural Variants of Arabidopsis thaliana Grown under Varying Soil Conditions. PLoS ONE, 2013, 8, e63014.	1.1	19
27	The bacterial-like lactate shuttle components from heterotrophic Euglena gracilis. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 181-190.	0.5	18
28	Enhanced cadmium efflux and rootâ€toâ€shoot translocation are conserved in the hyperaccumulator <i>Sedum alfredii</i> (Crassulaceae family). FEBS Letters, 2016, 590, 1757-1764.	1.3	18
29	Rootâ€toâ€shoot iron partitioning in Arabidopsis requires IRONâ€REGULATED TRANSPORTER1 (IRT1) protein but not its iron(II) transport function. Plant Journal, 2021, , .	2.8	18
30	Time-course development of the Cd2+ hyper-accumulating phenotype in Euglena gracilis. Archives of Microbiology, 2005, 184, 83-92.	1.0	16
31	Zn-bis-glutathionate is the best co-substrate of the monomeric phytochelatin synthase from the photosynthetic heavy metal-hyperaccumulator Euglena gracilis. Metallomics, 2014, 6, 604.	1.0	13
32	Zinc uptake in the Basidiomycota: Characterization of zinc transporters in Ustilago maydis. Molecular Membrane Biology, 2019, 35, 39-50.	2.0	10
33	Purification of Translating Ribosomes and Associated mRNAs from Soybean (Glycine max). Current Protocols in Plant Biology, 2016, 1, 185-196.	2.8	9
34	Cadmium interference with iron sensing reveals transcriptional programs sensitive and insensitive to reactive oxygen species. Journal of Experimental Botany, 2022, 73, 324-338.	2.4	9
35	Iron Availability within the Leaf Vasculature Determines the Magnitude of Iron Deficiency Responses in Source and Sink Tissues in<i>Arabidopsis</i>. Plant and Cell Physiology, 2022, 63, 829-841.	1.5	8
36	Quantitative proteomics analysis of leaves from two <i>Sedum alfredii</i> (Crassulaceae) populations that differ in cadmium accumulation. Proteomics, 2017, 17, e1600456.	1.3	5

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37	Exogenous 3,3â€²-Diindolylmethane Improves Vanadium Stress Tolerance in Brassica napus Seedling Shoots by Modulating Antioxidant Enzyme Activities. Biomolecules, 2021, 11, 436.	1.8	5
38	Draft Genome Sequence of the Putative Endophytic Bacterium Pantoea agglomerans R6, Associated with Lactuca serriola from South Africa. Microbiology Resource Announcements, 2021, 10, .	0.3	1