RubÃ©n RellÃ¡n-Ãlvarez

List of Publications by Year
in descending order

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32 papers	3,050 citations	257450 24 h-index	414414 32 g-index
46 all docs	46 docs citations	46 times ranked	4301 citing authors

#	Article	IF	Citations
1	Cellular damage induced by cadmium and mercury in Medicago sativa. Journal of Experimental Botany, 2005, 56, 2239-2251.	4.8	277
2	Towards a knowledge-based correction of iron chlorosis. Plant Physiology and Biochemistry, 2011, 49, 471-482.	5.8	275
3	Identification of a Tri-Iron(III), Tri-Citrate Complex in the Xylem Sap of Iron-Deficient Tomato Resupplied with Iron: New Insights into Plant Iron Long-Distance Transport. Plant and Cell Physiology, 2010, 51, 91-102.	3.1	235
4	Malate-dependent Fe accumulation is a critical checkpoint in the root developmental response to low phosphate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3563-E3572.	7.1	226
5	GLO-Roots: an imaging platform enabling multidimensional characterization of soil-grown root systems. ELife, 2015, 4, .	6.0	212
6	Nicotianamine Functions in the Phloem-Based Transport of Iron to Sink Organs, in Pollen Development and Pollen Tube Growth in Arabidopsis. Plant Cell, 2012, 24, 2380-2400.	6.6	190
7	Stress Responses of Zea mays to Cadmium and Mercury. Plant and Soil, 2006, 279, 41-50.	3.7	150
8	Rapid alteration of cellular redox homeostasis upon exposure to cadmium and mercury in alfalfa seedlings. New Phytologist, 2007, 176, 96-107.	7.3	144
9	Environmental Control of Root System Biology. Annual Review of Plant Biology, 2016, 67, 619-642.	18.7	142
10	Formation of metalâ€•nicotianamine complexes as affected by pH, ligand exchange with citrate and metal exchange. A study by electrospray ionization timeâ€•ofâ€•flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 1553-1562.	1.5	116
11	Grasses suppress shoot-borne roots to conserve water during drought. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8861-8866.	7.1	111
12	Changes in the proteomic and metabolic profiles of Beta vulgaris root tips in response to iron deficiency and resupply. BMC Plant Biology, 2010, 10, 120.	3.6	105
13	Direct and simultaneous determination of reduced and oxidized glutathione and homoglutathione by liquid chromatographyâ€“electrospray/mass spectrometry in plant tissue extracts. Analytical Biochemistry, 2006, 356, 254-264.	2.4	93
14	Changes induced by two levels of cadmium toxicity in the 2-DE protein profile of tomato roots. Journal of Proteomics, 2010, 73, 1694-1706.	2.4	88
15	Oxidative stress is a consequence, not a cause, of aluminum toxicity in the forage legume Lotus corniculatus. New Phytologist, 2012, 193, 625-636.	7.3	66
16	Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences. Frontiers in Plant Science, 2017, 8, 900.	3.6	61
17	Effect of oil refinery sludges on the growth and antioxidant system of alfalfa plants. Journal of Hazardous Materials, 2009, 171, 879-885.	12.4	60
18	Metabolic response in roots of Prunus rootstocks submitted to iron chlorosis. Journal of Plant Physiology, 2011, 168, 415-423.	3.5	58

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19	Iron-dependent modifications of the flower transcriptome, proteome, metabolome, and hormonal content in an Arabidopsis ferritin mutant. Journal of Experimental Botany, 2013, 64, 2665-2688.	4.8	52
20	Growth, Yield, and Fruit Quality of Pepper Plants Amended with Two Sanitized Sewage Sludges. Journal of Agricultural and Food Chemistry, 2010, 58, 6951-6959.	5.2	46
21	Gene regulatory effects of a large chromosomal inversion in highland maize. PLoS Genetics, 2020, 16, e1009213.	3.5	46
22	Metabolite profile changes in xylem sap and leaf extracts of strategy I plants in response to iron deficiency and resupply. Frontiers in Plant Science, 2011, 2, 66.	3.6	39
23	Carboxylate metabolism in sugar beet plants grown with excess Zn. Journal of Plant Physiology, 2011, 168, 730-733.	3.5	35
24	Molecular Parallelism Underlies Convergent Highland Adaptation of Maize Landraces. Molecular Biology and Evolution, 2021, 38, 3567-3580.	8.9	35
25	Co-ordinated Changes in the Accumulation of Metal Ions in Maize (Zea mays ssp. mays L.) in Response to Inoculation with the Arbuscular Mycorrhizal Fungus Funneliformis mosseae. Plant and Cell Physiology, 2017, 58, 1689-1699.	3.1	27
26	Development of a New High-Performance Liquid Chromatographyâ€“Electrospray Ionization Time-of-Flight Mass Spectrometry Method for the Determination of Low Molecular Mass Organic Acids in Plant Tissue Extracts. Journal of Agricultural and Food Chemistry, 2011, 59, 6864-6870.	5.2	24
27	An adaptive teosintemexicanaintrogression modulates phosphatidylcholine levels and is associated with maize flowering time. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	21
28	Inoculation with the mycorrhizal fungus Rhizophagus irregularis modulates the relationship between root growth and nutrient content in maize (Zea mays ssp. mays L.). Plant Direct, 2019, 3, e00192.	1.9	19
29	Demonstration of local adaptation in maize landraces by reciprocal transplantation. Evolutionary Applications, 2022, 15, 817-837.	3.1	15
30	A B73Ã—Palomero ToluqueÃ±o mapping population reveals local adaptation in Mexican highland maize. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	11
31	Plant scientists: GM technology is safe. Science, 2016, 351, 824-824.	12.6	5
32	The arches and spandrels of maize domestication, adaptation, and improvement. Current Opinion in Plant Biology, 2021, 64, 102124.	7.1	2