

Iron Uptake and Transport in Plants: The Good, the Bad

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Recent insights into iron homeostasis and their application in graminaceous crops. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2010, 86, 900-913.	1.6	75
2	<i>Arabidopsis</i> VILLIN1 and VILLIN3 Have Overlapping and Distinct Activities in Actin Bundle Formation and Turnover. Plant Cell, 2010, 22, 2727-2748.	3.1	91
4	Plant Fe status affects the composition of siderophore-secreting microbes in the rhizosphere. Annals of Botany, 2010, 105, 835-841.	1.4	87
5	Iron, ruthenium, osmium. Annual Reports on the Progress of Chemistry Section A, 2010, 106, 196.	0.8	0
6	Artificial mycorrhization does not influence the effects of iron availability on Fe, Zn, Cu, Pb and Cd accumulation in leaves of a heavy metal tolerant white poplar clone. Plant Biosystems, 2011, 145, 236-240.	0.8	15
7	Transporters Contributing to Iron Trafficking in Plants. Molecular Plant, 2011, 4, 464-476.	3.9	181
8	Bacteria in Agrobiolgy: Plant Nutrient Management. , 2011, , .		35
9	Moving micronutrients from the soil to the seeds: Genes and physiological processes from a biofortification perspective. Plant Science, 2011, 180, 562-574.	1.7	234
10	Antifungal effects of iron sulfate on grapevine fungal pathogens. Scientia Horticulturae, 2011, 130, 517-523.	1.7	14
11	Strawberry recovers from iron chlorosis after foliar application of a grass clipping extract. Journal of Plant Nutrition and Soil Science, 2011, 174, 473-479.	1.1	20
12	Sphingolipids in the Root Play an Important Role in Regulating the Leaf Ionome in <i>Arabidopsis thaliana</i> . Plant Cell, 2011, 23, 1061-1081.	3.1	111
13	Genome-Wide Association Analysis Identifies Candidate Genes Associated with Iron Deficiency Chlorosis in Soybean. Plant Genome, 2011, 4, 154-164.	1.6	106
15	The role of reduction in iron uptake processes in a unicellular, planktonic cyanobacterium. Environmental Microbiology, 2011, 13, 2990-2999.	1.8	105
16	Identification of a novel mitochondrial protein, short postembryonic roots 1 (SPR1), involved in root development and iron homeostasis in <i>Oryza sativa</i> . New Phytologist, 2011, 189, 843-855.	3.5	36
17	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
18	Evaluation of different column types for the hydrophilic interaction chromatographic separation of iron-citrate and copper-histidine species from plants. Journal of Chromatography A, 2011, 1218, 4934-4943.	1.8	16
19	Isoelectric focusing of small non-covalent metal species from plants. Electrophoresis, 2011, 32, 772-781.	1.3	6
20	Electronic structure calculation study of metal complexes with a phytosiderophore mugineic acid. Inorganica Chimica Acta, 2011, 370, 304-310.	1.2	12

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21	A hitchhiker's guide to the Arabidopsis genome. Plant Physiology and Biochemistry, 2011, 49, 462-470.	2.8	50
22	Impact of moderate Fe excess under Cd stress on the photosynthetic performance of poplar (Populus Tj ETQq1 1 0,784314 ggBT /Ov	2.8	16
23	Circadian clock adjustment to plant iron status depends on chloroplast and phytochrome function. EMBO Journal, 2012, 32, 511-523.	3.5	96
24	Systems and Trans-System Level Analysis Identifies Conserved Iron Deficiency Responses in the Plant Lineage. Plant Cell, 2012, 24, 3921-3948.	3.1	142
25	Fitting into the Harsh Reality: Regulation of Iron-deficiency Responses in Dicotyledonous Plants. Molecular Plant, 2012, 5, 27-42.	3.9	221
26	Atypical iron storage in marine brown algae: a multidisciplinary study of iron transport and storage in Ectocarpus siliculosus. Journal of Experimental Botany, 2012, 63, 5763-5772.	2.4	24
27	Computer Simulation of the Interactions of Glyphosate with Metal Ions in Phloem. Journal of Agricultural and Food Chemistry, 2012, 60, 6077-6087.	2.4	16
28	Biofortification for combating "hidden hunger" for iron. Trends in Plant Science, 2012, 17, 47-55.	4.3	131
29	A turn-on fluorescent probe based on hydroxylamine oxidation for detecting ferric ion selectively in living cells. Chemical Communications, 2012, 48, 5310.	2.2	135
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31	The Ectocarpus Genome and Brown Algal Genomics. Advances in Botanical Research, 2012, 64, 141-184.	0.5	18
32	A multidisciplinary study of iron transport and storage in the marine green alga Tetraselmis suecica. Journal of Inorganic Biochemistry, 2012, 116, 188-194.	1.5	13
33	A speciation model of essential trace metal ions in phloem. Journal of Inorganic Biochemistry, 2012, 116, 140-150.	1.5	32
34	Iron transport and storage in the coccolithophore: Emiliania huxleyi. Metallomics, 2012, 4, 1160.	1.0	11
35	Iron oxidation-reduction and its impacts on cadmium bioavailability in paddy soils: a review. Frontiers of Environmental Science and Engineering, 2012, 6, 509-517.	3.3	105
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38	Experimental and Theoretical Study of Low-Dimensional Iron Oxide Nanostructures. , 0, , .		3
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40	A geochemical study of toxic metal translocation in an urban brownfield wetland. <i>Environmental Pollution</i> , 2012, 166, 23-30.	3.7	48
41	Uptake and incorporation of iron in sugar beet chloroplasts. <i>Plant Physiology and Biochemistry</i> , 2012, 52, 91-97.	2.8	39
42	Pseudometallophytes colonising Pb/Zn mine tailings: A description of the plant-microorganism-rhizosphere soil system and isolation of metal-tolerant bacteria. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 350-359.	6.5	111
43	Iron deficiency affects plant defence responses and confers resistance to <i>Dickeya dadantii</i> and <i>Botrytis cinerea</i> . <i>Molecular Plant Pathology</i> , 2012, 13, 816-827.	2.0	86
44	Natural variation in iron use efficiency and mineral remobilization in cucumber (<i>Cucumis sativus</i>). <i>Plant and Soil</i> , 2012, 352, 185-197.	1.8	26
45	Fe isotope fractionation caused by translocation of iron during growth of bean and oat as models of strategy I and II plants. <i>Plant and Soil</i> , 2012, 352, 217-231.	1.8	40
46	Loading and bioavailability of iron in cereal grains. <i>Plant Cell, Tissue and Organ Culture</i> , 2013, 113, 363-373.	1.2	10
47	Heavy Metal Stress in Plants. , 2013, , .		38
48	Pathways of iron acquisition and utilization in <i>Leishmania</i> . <i>Current Opinion in Microbiology</i> , 2013, 16, 716-721.	2.3	38
49	Characterization of Fe-Leonardite Complexes as Novel Natural Iron Fertilizers. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 12200-12210.	2.4	23
50	Producing more with less: Strategies and novel technologies for plant-based food biofortification. <i>Food Research International</i> , 2013, 54, 961-971.	2.9	153
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55	Using ⁵⁴ FePIXE for quantitative mapping of metal concentration in <i>Arabidopsis thaliana</i> seeds. <i>Frontiers in Plant Science</i> , 2013, 4, 168.	1.7	38
56	Pattern of iron distribution in maternal and filial tissues in wheat grains with contrasting levels of iron. <i>Journal of Experimental Botany</i> , 2013, 64, 3249-3260.	2.4	58
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59	Autophagy as a possible mechanism for micronutrient remobilization from leaves to seeds. Frontiers in Plant Science, 2014, 5, 11.	1.7	62
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71	⁵⁷ Fe Mössbauer spectroscopy investigations of iron oxidation states in the Harmattan dust nutrient contribution to West African soils. Atmospheric Environment, 2014, 98, 591-598.	1.9	3
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93	New insights into the role of siderophores as triggers of plant immunity: what can we learn from animals?. <i>Journal of Experimental Botany</i> , 2015, 66, 3001-3010.	2.4	148
94	Regulation of Nutrient Uptake by Plants. , 2015, , .		39

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125	Plant-Available Phosphorus after Application of Synthetic Chelating Agents. <i>Communications in Soil Science and Plant Analysis</i> , 0, , 1-14.	0.6	4
126	Phytotoxicity of ionic, micro- and nano-sized iron in three plant species. <i>Ecotoxicology and Environmental Safety</i> , 2016, 123, 81-88.	2.9	89
127	Gibberellins regulate iron deficiency-response by influencing iron transport and translocation in rice seedlings (<i>Oryza sativa</i>). <i>Annals of Botany</i> , 2017, 119, mcw250.	1.4	32
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130	Natural allelic variation of FRO2 modulates <i>Arabidopsis</i> root growth under iron deficiency. <i>Nature Communications</i> , 2017, 8, 15603.	5.8	73
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135	Iron-Nicotianamine Transporters Are Required for Proper Long Distance Iron Signaling. Plant Physiology, 2017, 175, 1254-1268.	2.3	87
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137	Lysosomal tracking with a cationic naphthalimide using multiphoton fluorescence lifetime imaging microscopy. Chemical Communications, 2017, 53, 11161-11164.	2.2	32
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161	Seasonal differences in trace element concentrations and distribution in Spartina alterniflora root tissue. Chemosphere, 2018, 204, 359-370.	4.2	8
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181	Identification of Novel Genomic Loci Associated with Soybean Shoot Tissue Macro and Micronutrient Concentrations. <i>Plant Genome</i> , 2018, 11, 170066.	1.6	17
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