Catherine Curie

List of Publications by Year
in descending order

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41	8,594	147801	265206
papers	citations	31 h-index	42 g-index

42	42	42	5490
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	IRT1, an Arabidopsis Transporter Essential for Iron Uptake from the Soil and for Plant Growth. Plant Cell, 2002, 14, 1223-1233.	6.6	1,464
2	Maize yellow stripe1 encodes a membrane protein directly involved in Fe(III) uptake. Nature, 2001, 409, 346-349.	27.8	905
3	Metal movement within the plant: contribution of nicotianamine and yellow stripe 1-like transporters. Annals of Botany, 2009, 103, 1-11.	2.9	703
4	Mobilization of vacuolar iron by AtNRAMP3 and AtNRAMP4 is essential for seed germination on low iron. EMBO Journal, 2005, 24, 4041-4051.	7.8	562
5	Involvement of NRAMP1 from Arabidopsis thaliana in iron transport. Biochemical Journal, 2000, 347, 749-755.	3.7	474
6	High-Affinity Manganese Uptake by the Metal Transporter NRAMP1 Is Essential for Arabidopsis Growth in Low Manganese Conditions Â. Plant Cell, 2010, 22, 904-917.	6.6	449
7	Iron utilization and metabolism in plants. Current Opinion in Plant Biology, 2007, 10, 276-282.	7.1	374
8	Arabidopsis IRT2 gene encodes a root-periphery iron transporter. Plant Journal, 2001, 26, 181-189.	5.7	272
9	Dual Regulation of the Arabidopsis High-Affinity Root Iron Uptake System by Local and Long-Distance Signals. Plant Physiology, 2003, 132, 796-804.	4.8	262
10	A loss-of-function mutation in AtYSL1 reveals its role in iron and nicotianamine seed loading. Plant Journal, 2005, 44, 769-782.	5.7	238
11	The NRAMP6 metal transporter contributes to cadmium toxicity. Biochemical Journal, 2009, 422, 217-228.	3.7	235
12	Iron Acquisition from Fe-Pyoverdine by Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2007, 20, 441-447.	2.6	225
13	Identification of the Endodermal Vacuole as the Iron Storage Compartment in the Arabidopsis Embryo. Plant Physiology, 2009, 151, 1329-1338.	4.8	203
14	Cytokinins negatively regulate the root iron uptake machinery in Arabidopsis through a growthâ€dependent pathway. Plant Journal, 2008, 55, 289-300.	5.7	188
15	A Putative Function for the Arabidopsis Feâ€“Phytosiderophore Transporter Homolog AtYSL2 in Fe and Zn Homeostasis. Plant and Cell Physiology, 2005, 46, 762-774.	3.1	163
16	The gene family encoding the Arabidopsis thaliana translation elongation factor EF-1Î±: Molecular cloning, characterization and expression. Molecular Genetics and Genomics, 1989, 219, 106-112.	2.4	161
17	Arabidopsis IRT2 cooperates with the high-affinity iron uptake system to maintain iron homeostasis in root epidermal cells. Planta, 2009, 229, 1171-1179.	3.2	161
18	Ascorbate Efflux as a New Strategy for Iron Reduction and Transport in Plants. Journal of Biological Chemistry, 2014, 289, 2515-2525.	3.4	153

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19	The FRD3 Citrate Effluxer Promotes Iron Nutrition between Symplastically Disconnected Tissues throughout Arabidopsis Development. Plant Cell, 2011, 23, 2725-2737.	6.6	147
20	The high-affinity metal Transporters NRAMP1 and IRT1 Team up to Take up Iron under Sufficient Metal Provision. Scientific Reports, 2016, 6, 37222.	3.3	131
21	The Arabidopsis YELLOW STRIPE LIKE4 and 6 Transporters Control Iron Release from the Chloroplast Â. Plant Cell, 2013, 25, 1040-1055.	6.6	114
22	Proteasomeâ€mediated turnover of the transcriptional activator FIT is required for plant ironâ€deficiency responses. Plant Journal, 2011, 66, 1044-1052.	5.7	112
23	New insights into Fe localization in plant tissues. Frontiers in Plant Science, 2013, 4, 350.	3.6	99
24	Inventory of metal complexes circulating in plant fluids: a reliable method based on HPLC coupled with dual elemental and highâ€resolution molecular mass spectrometric detection. New Phytologist, 2016, 211, 1129-1141.	7.3	87
25	Intracellular Distribution of Manganese by the Trans-Golgi Network Transporter NRAMP2 Is Critical for Photosynthesis and Cellular Redox Homeostasis. Plant Cell, 2017, 29, 3068-3084.	6.6	87
26	Modular organization and developmental activity of an Arabidopsis thaliana EF-1Î± gene promoter. Molecular Genetics and Genomics, 1993, 238, 428-436.	2.4	85
27	Plant Cell Nucleolus as a Hot Spot for Iron. Journal of Biological Chemistry, 2011, 286, 27863-27866.	3.4	81
28	New routes for plant iron mining. New Phytologist, 2017, 214, 521-525.	7.3	76
29	Cisandtrans-actingelements involved in the activation ofArabidopsis thalianaAl gene encoding the translation elongation factor EF-Î±. Nucleic Acids Research, 1991, 19, 1305-1310.	14.5	72
30	Increased sensitivity to iron deficiency in Arabidopsis thaliana overaccumulating nicotianamine. Journal of Experimental Botany, 2009, 60, 1249-1259.	4.8	66
31	Phosphatidylinositol 3-phosphateâ€“binding protein AtPH1 controls the localization of the metal transporter NRAMP1 in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3354-E3363.	7.1	54
32	Manganese triggers phosphorylationâ€mediated endocytosis of the Arabidopsis metal transporter NRAMP1. Plant Journal, 2021, 106, 1328-1337.	5.7	29
33	Over-expression of the Bacterial Phytase US417 in Arabidopsis Reduces the Concentration of Phytic Acid and Reveals Its Involvement in the Regulation of Sulfate and Phosphate Homeostasis and Signaling. Plant and Cell Physiology, 2014, 55, 1912-1924.	3.1	23
34	Paspalum urvillei and Setaria parviflora, two grasses naturally adapted to extreme iron-rich environments. Plant Physiology and Biochemistry, 2020, 151, 144-156.	5.8	23
35	<scp>NRAMP6</scp> and <scp>NRAMP1</scp> cooperatively regulate root growth and manganese translocation under manganese deficiency in Arabidopsis. Plant Journal, 2022, 110, 1564-1577.	5.7	22
36	Straightforward histochemical staining of Fe by the adaptation of an old-school technique. Plant Signaling and Behavior, 2010, 5, 56-57.	2.4	21

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37	AtDTX25, a member of the multidrug and toxic compound extrusion family, is a vacuolar ascorbate transporter that controls intracellular iron cycling in Arabidopsis. New Phytologist, 2021, 231, 1956-1967.	7.3	18
38	The activation process of Arabidopsis thaliana A1 gene encoding the translation elongation factor EF-1? is conserved among angiosperms. Plant Molecular Biology, 1992, 18, 1083-1089.	3.9	15
39	Ubiquitination of transporters at the forefront of plant nutrition. Plant Signaling and Behavior, 2011, 6, 1597-1599.	2.4	14
40	Split green fluorescent protein as a tool to study infection with a plant pathogen, Cauliflower mosaic virus. PLoS ONE, 2019, 14, e0213087.	2.5	10
41	Molecular biology of male gametogenesis. Euphytica, 1994, 79, 245-250.	1.2	6