

Graziano Zocchi

List of Publications by Year in descending order

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61
papers

3,066
citations

172457

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161849

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all docs

62
docs citations

62
times ranked

2820
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved plant resistance to drought is promoted by the root-associated microbiome as a water stress-dependent trait. <i>Environmental Microbiology</i> , 2015, 17, 316-331.	3.8	449
2	A Drought Resistance-Promoting Microbiome Is Selected by Root System under Desert Farming. <i>PLoS ONE</i> , 2012, 7, e48479.	2.5	400
3	Changes in the proteomic and metabolic profiles of <i>Beta vulgaris</i> root tips in response to iron deficiency and resupply. <i>BMC Plant Biology</i> , 2010, 10, 120.	3.6	105
4	Signals from chloroplasts and mitochondria for iron homeostasis regulation. <i>Trends in Plant Science</i> , 2013, 18, 305-311.	8.8	102
5	Development of Fe-deficiency responses in cucumber (<i>Cucumis sativus</i> L.) roots: involvement of plasma membrane H ⁺ -ATPase activity. <i>Journal of Experimental Botany</i> , 2000, 51, 695-701.	4.8	96
6	Plasma membrane-bound H ⁺ -ATPase and reductase activities in Fe-deficient cucumber roots. <i>Physiologia Plantarum</i> , 1994, 90, 779-785.	5.2	95
7	Iron deficiency affects nitrogen metabolism in cucumber (<i>Cucumis sativus</i> L.) plants. <i>BMC Plant Biology</i> , 2012, 12, 189.	3.6	91
8	Are drought-resistance promoting bacteria cross-compatible with different plant models?. <i>Plant Signaling and Behavior</i> , 2013, 8, e26741.	2.4	90
9	Phosphoenolpyruvate carboxylase in cucumber (<i>Cucumis sativus</i> L.) roots under iron deficiency: activity and kinetic characterization. <i>Journal of Experimental Botany</i> , 2000, 51, 1903-1909.	4.8	87
10	Iron availability affects the function of mitochondria in cucumber roots. <i>New Phytologist</i> , 2009, 182, 127-136.	7.3	85
11	Iron deficiency differently affects metabolic responses in soybean roots. <i>Journal of Experimental Botany</i> , 2007, 58, 993-1000.	4.8	82
12	Proteomic characterization of iron deficiency responses in <i>Cucumis sativus</i> L. roots. <i>BMC Plant Biology</i> , 2010, 10, 268.	3.6	78
13	Metabolic responses in cucumber (<i>Cucumis sativus</i> L.) roots under Fe-deficiency: a ³¹ P-nuclear magnetic resonance in-vivo study. <i>Planta</i> , 2000, 210, 985-992.	3.2	68
14	Differential responses in pear and quince genotypes induced by Fe deficiency and bicarbonate. <i>Journal of Plant Physiology</i> , 2009, 166, 1181-1193.	3.5	67
15	Changes of metabolic responses to direct and induced Fe deficiency of two <i>Pisum sativum</i> cultivars. <i>Environmental and Experimental Botany</i> , 2010, 68, 238-246.	4.2	65
16	Fe Uptake Mechanism in Fe-Efficient Cucumber Roots. <i>Plant Physiology</i> , 1990, 92, 908-911.	4.8	62
17	Root bacterial endophytes confer drought resistance and enhance expression and activity of a vacuolar H ⁺ -pumping pyrophosphatase in pepper plants. <i>Environmental Microbiology</i> , 2019, 21, 3212-3228.	3.8	60
18	Calcium Influx into Corn Roots as a Result of Cold Shock. <i>Plant Physiology</i> , 1982, 70, 318-319.	4.8	57

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19	Phosphorylation-dephosphorylation of membrane proteins controls the microsomal H ⁺ -ATPase activity of corn roots. <i>Plant Science</i> , 1985, 40, 153-159.	3.6	49
20	Oxidative stress responses and root lignification induced by Fe deficiency conditions in pear and quince genotypes. <i>Tree Physiology</i> , 2011, 31, 102-113.	3.1	46
21	Calcium transport and ATPase activity in a microsomal vesicle fraction from corn roots.. <i>Plant, Cell and Environment</i> , 1983, 6, 203-209.	5.7	42
22	Calcium-dependent phosphorylation regulates the plasma-membrane H ⁺ -ATPase activity of maize (<i>Zea mays</i>) cv. Overlock 100. <i>Plant, Cell and Environment</i> , 2000, 23, 1009-1017.	3.2	41
23	Root exudation and rhizosphere acidification by two lines of <i>Medicago ciliaris</i> in response to lime-induced iron deficiency. <i>Plant and Soil</i> , 2008, 312, 151-162.	3.7	39
24	Adaptive strategies of <i>Parietaria diffusa</i> (M.&K.) to calcareous habitat with limited iron availability*. <i>Plant, Cell and Environment</i> , 2012, 35, 1171-1184.	5.7	38
25	Inhibition of proton pumping in corn roots is associated with increased phosphorylation of membrane proteins. <i>Plant Science Letters</i> , 1983, 31, 215-221.	1.8	37
26	Knocking down mitochondrial iron transporter (MIT) reprograms primary and secondary metabolism in rice plants. <i>Journal of Experimental Botany</i> , 2016, 67, 1357-1368.	4.8	36
27	Cellular iron homeostasis and metabolism in plant. <i>Frontiers in Plant Science</i> , 2013, 4, 490.	3.6	34
28	Comparison of three pea cultivars (<i>Pisum sativum</i>) regarding their responses to direct and bicarbonate-induced iron deficiency. <i>Scientia Horticulturae</i> , 2011, 129, 548-553.	3.6	33
29	Physiological and biochemical responses for two cultivars of <i>Pisum sativum</i> (‘Merveille de Kelvedon’) and ‘Merveille de Mirabelle’. <i>Plant, Cell and Environment</i> , 2002, 25, 1073-1081.	3.6	31
30	Localization of the plasma membrane H ⁺ -ATPase in Fe-deficient cucumber roots by immunodetection. <i>Plant and Soil</i> , 2002, 241, 11-17.	3.7	29
31	Calcium transport and ATPase activity in a microsomal vesicle fraction from corn roots. <i>Plant, Cell and Environment</i> , 1983, 6, 203-209.	5.7	29
32	Effect of Fe deficiency on mitochondrial alternative NAD(P)H dehydrogenases in cucumber roots. <i>Journal of Plant Physiology</i> , 2010, 167, 666-669.	3.5	26
33	Metabolic changes of iron uptake in N ₂ -fixing common bean nodules during iron deficiency. <i>Plant Science</i> , 2011, 181, 151-158.	3.6	26
34	Three-Dimensional Reconstruction, by TEM Tomography, of the Ultrastructural Modifications Occurring in <i>Cucumis sativus</i> L. Mitochondria under Fe Deficiency. <i>PLoS ONE</i> , 2015, 10, e0129141.	2.5	26
35	The fate and the role of mitochondria in Fe-deficient roots of Strategy I plants. <i>Plant Signaling and Behavior</i> , 2009, 4, 375-379.	2.4	25
36	Responses of two ecotypes of <i>Medicago ciliaris</i> to direct and bicarbonate-induced iron deficiency conditions. <i>Acta Physiologiae Plantarum</i> , 2009, 31, 667-673.	2.1	24

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37	Low iron availability and phenolic metabolism in a wild plant species (<i>Parietaria judaica</i> L.). <i>Plant Physiology and Biochemistry</i> , 2013, 72, 145-153.	5.8	22
38	Immunolocalization of H ⁺ -ATPase and IRT1 enzymes in N ₂ -fixing common bean nodules subjected to iron deficiency. <i>Journal of Plant Physiology</i> , 2012, 169, 242-248.	3.5	21
39	Transcriptional Characterization of a Widely-Used Grapevine Rootstock Genotype under Different Iron-Limited Conditions. <i>Frontiers in Plant Science</i> , 2016, 7, 1994.	3.6	21
40	Separation of membrane vesicles from maize roots having different calcium transport activities. <i>Plant Science</i> , 1988, 54, 103-107.	3.6	20
41	Image changes in chlorophyll fluorescence of cucumber leaves in response to iron deficiency and resupply. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 734-742.	1.9	20
42	Different forms of EF1 and viability in wheat embryos. <i>Phytochemistry</i> , 1976, 15, 1607-1610.	2.9	17
43	Variability of metabolic responses and antioxidant defence in two lines of <i>Medicago ciliaris</i> to Fe deficiency. <i>Plant and Soil</i> , 2009, 320, 219-230.	3.7	17
44	Leaf Responses to Reduced Iron Availability in Two Tomato Genotypes: T3238FER (Iron Efficient) and T3238fer (Iron Inefficient). <i>Journal of Plant Nutrition</i> , 2003, 26, 2137-2148.	1.9	16
45	The role of calcium in the cold shock responses. <i>Plant Science</i> , 1996, 121, 161-166.	3.6	15
46	Changes in form of elongation factor 1 during germination of wheat seeds. <i>FEBS Journal</i> , 1984, 139, 1-4.	0.2	12
47	Fe Deficiency Responses in <i>Parietaria diffusa</i> : A Calcicole Plant. <i>Journal of Plant Nutrition</i> , 2003, 26, 2057-2068.	1.9	11
48	Responses of two lines of <i>Medicago ciliaris</i> to Fe deficiency under saline conditions. <i>Plant Growth Regulation</i> , 2011, 64, 221-230.	3.4	11
49	Application of the split root technique to study iron uptake in cucumber plants. <i>Plant Physiology and Biochemistry</i> , 2012, 57, 168-174.	5.8	10
50	Comparison of the Effect of Indoleacetic Acid and Fusicocin on the Breakdown of Phosphatidylinositol in Maize Coleoptiles. <i>Plant Physiology</i> , 1990, 94, 1009-1011.	4.8	8
51	Effect of Iron Deficiency on RNA and Protein Synthesis in Cucumber Roots. <i>Journal of Plant Nutrition</i> , 2003, 26, 2177-2186.	1.9	8
52	Pear plantlets cultured <i>in vitro</i> under lime-induced chlorosis display a better adaptive strategy than quince plantlets. <i>Plant Cell, Tissue and Organ Culture</i> , 2008, 93, 191-200.	2.3	8
53	Fe deficiency differentially affects the vacuolar proton pumps in cucumber and soybean roots. <i>Frontiers in Plant Science</i> , 2013, 4, 326.	3.6	8
54	Adaptive responses to iron-deficiency in callus cultures of two cultivars of <i>Vitis</i> spp.. <i>Journal of Plant Physiology</i> , 2003, 160, 865-870.	3.5	7

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55	Effect of Vitamin K3 on plasma membrane-bound H ⁺ -ATPase and reductase activities in plants. <i>Plant Science</i> , 2006, 170, 936-941.	3.6	5
56	Modulation of iron responsive gene expression and enzymatic activities in response to changes of the iron nutritional status in <i>Cucumis sativus</i> L.. <i>Nature Precedings</i> , 2010, , .	0.1	4
57	Modulation of photorespiration and nitrogen recycling in Fe-deficient cucumber leaves. <i>Plant Physiology and Biochemistry</i> , 2020, 154, 142-150.	5.8	4
58	Physiological responses of grapevine callus cultures to iron deficiency. <i>Journal of Plant Nutrition</i> , 1997, 20, 1539-1549.	1.9	3
59	Plasticity, exudation and microbiome-association of the root system of Pellitory-of-the-wall plants grown in environments impaired in iron availability. <i>Plant Physiology and Biochemistry</i> , 2021, 168, 27-42.	5.8	3
60	Temporal Responses to Direct and Induced Iron Deficiency in <i>Parietaria judaica</i> . <i>Agronomy</i> , 2020, 10, 1037.	3.0	2
61	Development of Fe-deficiency responses in cucumber (<i>Cucumis sativus</i> L.) roots: involvement of plasma membrane H ⁺ - ATPase activity. <i>Journal of Experimental Botany</i> , 2000, 51, 695-701.	4.8	1