

Gianpiero Vigani

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,686
citations

236925

25
h-index

189892

50
g-index

58
all docs

58
docs citations

58
times ranked

3205
citing authors

#	ARTICLE	IF	CITATIONS
1	Presence of a Mitovirus Is Associated with Alteration of the Mitochondrial Proteome, as Revealed by Protein-Protein Interaction (PPI) and Co-Expression Network Models in <i>Chenopodium quinoa</i> Plants. <i>Biology</i> , 2022, 11, 95.	2.8	8
2	Plastic mulch film residues in agriculture: impact on soil suppressiveness, plant growth, and microbial communities. <i>FEMS Microbiology Ecology</i> , 2022, 98, .	2.7	18
3	Arbuscular Mycorrhizal Symbiosis Differentially Affects the Nutritional Status of Two Durum Wheat Genotypes under Drought Conditions. <i>Plants</i> , 2022, 11, 804.	3.5	16
4	Plant iron nutrition: the long road from soil to seeds. <i>Journal of Experimental Botany</i> , 2022, 73, 1809-1824.	4.8	18
5	Microplastics make their way into the soil and rhizosphere: A review of the ecological consequences. <i>Rhizosphere</i> , 2022, 22, 100542.	3.0	22
6	Network Topological Analysis for the Identification of Novel Hubs in Plant Nutrition. <i>Frontiers in Plant Science</i> , 2021, 12, 629013.	3.6	14
7	Formate dehydrogenase contributes to the early <i>Arabidopsis thaliana</i> responses against <i>Xanthomonas campestris</i> pv <i>campestris</i> infection. <i>Physiological and Molecular Plant Pathology</i> , 2021, 114, 101633.	2.5	5
8	Interaction Between Sulfur and Iron in Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 670308.	3.6	41
9	Geomagnetic Field (GMF)-Dependent Modulation of Iron-Sulfur Interplay in <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 10166.	4.1	7
10	A Smart and Sustainable Future for Viticulture Is Rooted in Soil: How to Face Cu Toxicity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 907.	2.5	25
11	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
12	Investigating the effect of belowground microbial volatiles on plant nutrient status: perspective and limitations. <i>Journal of Plant Interactions</i> , 2020, 15, 188-195.	2.1	17
13	Formate dehydrogenase takes part in molybdenum and iron homeostasis and affects dark-induced senescence in plants. <i>Journal of Plant Interactions</i> , 2020, 15, 386-397.	2.1	9
14	Temporal Responses to Direct and Induced Iron Deficiency in <i>Parietaria judaica</i> . <i>Agronomy</i> , 2020, 10, 1037.	3.0	2
15	The Geomagnetic Field (GMF) Modulates Nutrient Status and Lipid Metabolism during <i>Arabidopsis thaliana</i> Plant Development. <i>Plants</i> , 2020, 9, 1729.	3.5	8
16	Modulation of photorespiration and nitrogen recycling in Fe-deficient cucumber leaves. <i>Plant Physiology and Biochemistry</i> , 2020, 154, 142-150.	5.8	4
17	WHIRLY2 plays a key role in mitochondria morphology, dynamics, and functionality in <i>Arabidopsis thaliana</i> . <i>Plant Direct</i> , 2020, 4, e00229.	1.9	10
18	The Geomagnetic Field Is a Contributing Factor for an Efficient Iron Uptake in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 325.	3.6	19

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19	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
20	Harnessing the new emerging imaging technologies to uncover the role of Ca ²⁺ signalling in plant nutrient homeostasis. <i>Plant, Cell and Environment</i> , 2019, 42, 2885-2901.	5.7	16
21	Essential and Detrimental – an Update on Intracellular Iron Trafficking and Homeostasis. <i>Plant and Cell Physiology</i> , 2019, 60, 1420-1439.	3.1	52
22	Disentangling the complexity and diversity of crosstalk between sulfur and other mineral nutrients in cultivated plants. <i>Journal of Experimental Botany</i> , 2019, 70, 4183-4196.	4.8	43
23	Mitochondria dysfunctions under Fe and S deficiency: is citric acid involved in the regulation of adaptive responses?. <i>Plant Physiology and Biochemistry</i> , 2018, 126, 86-96.	5.8	16
24	Cellular Fractionation and Nanoscopic X-Ray Fluorescence Imaging Analyses Reveal Changes of Zinc Distribution in Leaf Cells of Iron-Deficient Plants. <i>Frontiers in Plant Science</i> , 2018, 9, 1112.	3.6	29
25	Iron-Requiring Enzymes in the Spotlight of Oxygen. <i>Trends in Plant Science</i> , 2018, 23, 874-882.	8.8	30
26	Molybdenum and iron mutually impact their homeostasis in cucumber (<i>Cucumis sativus</i>) plants. <i>New Phytologist</i> , 2017, 213, 1222-1241.	7.3	65
27	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
28	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
29	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
30	Phosphorus and iron deficiencies induce a metabolic reprogramming and affect the exudation traits of the woody plant <i>Fragaria</i> – <i>Ananassa</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 6483-6495.	4.8	94
31	Analysis of <i>Arabidopsis thaliana</i> <i>atfer4-1</i> , <i>atfh</i> and <i>atfer4-1/atfh</i> mutants uncovers frataxin and ferritin contributions to leaf ionome homeostasis. <i>Plant Physiology and Biochemistry</i> , 2015, 94, 65-72.	5.8	20
32	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
33	Impairment of Respiratory Chain under Nutrient Deficiency in Plants: Does it Play a Role in the Regulation of Iron and Sulfur Responsive Genes?. <i>Frontiers in Plant Science</i> , 2015, 6, 1185.	3.6	30
34	Rhizospheric organic compounds in the soil – microorganism – plant system: their role in iron availability. <i>European Journal of Soil Science</i> , 2014, 65, 629-642.	3.9	189
35	The maize pentatricopeptide repeat gene empty pericarp4 (<i>emp4</i>) is required for proper cellular development in vegetative tissues. <i>Plant Science</i> , 2014, 223, 25-35.	3.6	8
36	Signals from chloroplasts and mitochondria for iron homeostasis regulation. <i>Trends in Plant Science</i> , 2013, 18, 305-311.	8.8	102

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37	Mitochondrial ferritin is a functional iron-storage protein in cucumber (<i>Cucumis sativus</i>) roots. <i>Frontiers in Plant Science</i> , 2013, 4, 316.	3.6	30
38	Searching iron sensors in plants by exploring the link among 2-OG-dependent dioxygenases, the iron deficiency response and metabolic adjustments occurring under iron deficiency. <i>Frontiers in Plant Science</i> , 2013, 4, 169.	3.6	38
39	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
40	Cellular iron homeostasis and metabolism in plant. <i>Frontiers in Plant Science</i> , 2013, 4, 490.	3.6	34
41	Are drought-resistance promoting bacteria cross-compatible with different plant models?. <i>Plant Signaling and Behavior</i> , 2013, 8, e26741.	2.4	90
42	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
43	Iron deficiency affects nitrogen metabolism in cucumber (<i>Cucumis sativus</i> L.) plants. <i>BMC Plant Biology</i> , 2012, 12, 189.	3.6	91
44	Does a Similar Metabolic Reprogramming Occur in Fe-Deficient Plant Cells and Animal Tumor Cells?. <i>Frontiers in Plant Science</i> , 2012, 3, 47.	3.6	6
45	Discovering the role of mitochondria in the iron deficiency-induced metabolic responses of plants. <i>Journal of Plant Physiology</i> , 2012, 169, 1-11.	3.5	62
46	cDNA-AFLP analysis reveals a set of new genes differentially expressed in cucumber root apices in response to iron deficiency. <i>Biologia Plantarum</i> , 2012, 56, 502-508.	1.9	9
47	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
48	A Drought Resistance-Promoting Microbiome Is Selected by Root System under Desert Farming. <i>PLoS ONE</i> , 2012, 7, e48479.	2.5	400
49	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
50	Proteomic characterization of iron deficiency responses in <i>Cucumis sativus</i> L. roots. <i>BMC Plant Biology</i> , 2010, 10, 268.	3.6	78
51	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
52	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
53	AtFer4 ferritin is a determinant of iron homeostasis in <i>Arabidopsis thaliana</i> heterotrophic cells. <i>Journal of Plant Physiology</i> , 2010, 167, 1598-1605.	3.5	31
54	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

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55	Iron availability affects the function of mitochondria in cucumber roots. <i>New Phytologist</i> , 2009, 182, 127-136.	7.3	85
56	The Essential Cytosolic Iron-Sulfur Protein Nbp35 Acts without Cfd1 Partner in the Green Lineage. <i>Journal of Biological Chemistry</i> , 2008, 283, 35797-35804.	3.4	68
57	METAL HOMEOSTASIS IN PLANT MITOCHONDRIA. , 0, , 111-142.		5