Rosa M Rivero

List of Publications by Year
in descending order

		87888	66911
78 papers	9,016 citations	38 h-index	78 g-index
84 all docs	84 docs citations	84 times ranked	10179 citing authors

#	Article	IF	Citations
1	Developing climateâ€resilient crops: improving plant tolerance to stress combination. Plant Journal, 2022, 109, 373-389.	5.7	198
2	Interaction between Melatonin and NO: Action Mechanisms, Main Targets, and Putative Roles of the Emerging Molecule NOmela. International Journal of Molecular Sciences, 2022, 23, 6646.	4.1	12
3	Synchronization of proline, ascorbate and oxidative stress pathways under the combination of salinity and heat in tomato plants. Environmental and Experimental Botany, 2021, 183, 104351.	4.2	35
4	Alternate bearing in fruit trees: fruit presence induces polar auxin transport in citrus and olive stem and represses IAA release from the bud. Journal of Experimental Botany, 2021, 72, 2450-2462.	4.8	17
5	Deciphering fruit sugar transport and metabolism from tolerant and sensitive tomato plants subjected to simulated field conditions. Physiologia Plantarum, 2021, 173, 1715-1728.	5.2	3
6	ROS and NO Phytomelatonin-Induced Signaling Mechanisms under Metal Toxicity in Plants: A Review. Antioxidants, 2021, 10, 775.	5.1	26
7	Bioactive Compounds of Tomato Fruit in Response to Salinity, Heat and Their Combination. Agriculture (Switzerland), 2021, 11, 534.	3.1	14
8	ROS and NO Regulation by Melatonin Under Abiotic Stress in Plants. Antioxidants, 2020, 9, 1078.	5.1	73
9	Artificial light impacts the physical and nutritional quality of lettuce plants. Horticulture Environment and Biotechnology, 2020, 61, 69-82.	2.1	37
10	Root highâ€affinity K⁺ and Cs⁺ uptake and plant fertility in tomato plants are dependent on the activity of the highâ€affinity K⁺ transporter <scp>SlHAK5</scp>. Plant, Cell and Environment, 2020, 43, 1707-1721.	5.7	19
11	Modulation of K⁺ translocation by AKT1 and AtHAK5 in Arabidopsis plants. Plant, Cell and Environment, 2019, 42, 2357-2371.	5.7	38
12	Amelioration of the Oxidative Stress Generated by Simple or Combined Abiotic Stress through the K+ and Ca2+ Supplementation in Tomato Plants. Antioxidants, 2019, 8, 81.	5.1	49
13	Editorial. Physiologia Plantarum, 2019, 165, 125-127.	5.2	1
14	Hormone balance in a climacteric plum fruit and its non-climacteric bud mutant during ripening. Plant Science, 2019, 280, 51-65.	3.6	20
15	Critical responses to nutrient deprivation: A comprehensive review on the role of ROS and RNS. Environmental and Experimental Botany, 2019, 161, 74-85.	4.2	38
16	The Forner Alcaide nÂº 5 citrus genotype shows a different physiological response to the excess of boron in the irrigation water in relation to its two genotype progenitors. Scientia Horticulturae, 2019, 245, 19-28.	3.6	4
17	Using Tomato Recombinant Lines to Improve Plant Tolerance to Stress Combination Through a More Efficient Nitrogen Metabolism. Frontiers in Plant Science, 2019, 10, 1702.	3.6	21
18	Ethylene regulation of sugar metabolism in climacteric and non-climacteric plums. Postharvest Biology and Technology, 2018, 139, 20-30.	6.0	74

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19	Pharmacological and gene regulation properties point to the SlHAK5 K⁺ transporter as a system for highâ€affinity Cs⁺ uptake in tomato plants. Physiologia Plantarum, 2018, 162, 455-466.	5.2	8
20	Tolerance to Stress Combination in Tomato Plants: New Insights in the Protective Role of Melatonin. Molecules, 2018, 23, 535.	3.8	246
21	Red blotch disease alters grape berry development and metabolism by interfering with the transcriptional and hormonal regulation of ripening. Journal of Experimental Botany, 2017, 68, 1225-1238.	4.8	92
22	Reactive oxygen species, abiotic stress and stress combination. Plant Journal, 2017, 90, 856-867.	5.7	1,759
23	Potassium fertilization enhances pepper fruit quality. Journal of Plant Nutrition, 2017, 40, 145-155.	1.9	28
24	Use of a smart irrigation system to study the effects of irrigation management on the agronomic and physiological responses of tomato plants grown under different temperatures regimes. Agricultural Water Management, 2017, 183, 158-168.	5.6	44
25	Sugar metabolism reprogramming in a non-climacteric bud mutant of a climacteric plum fruit during development on the tree. Journal of Experimental Botany, 2017, 68, 5813-5828.	4.8	42
26	ABA Is Required for Plant Acclimation to a Combination of Salt and Heat Stress. PLoS ONE, 2016, 11, e0147625.	2.5	267
27	Uneven HAK/KUP/KT Protein Diversity Among Angiosperms: Species Distribution and Perspectives. Frontiers in Plant Science, 2016, 7, 127.	3.6	75
28	Accumulation of Flavonols over Hydroxycinnamic Acids Favors Oxidative Damage Protection under Abiotic Stress. Frontiers in Plant Science, 2016, 7, 838.	3.6	202
29	Tolerance of citrus plants to the combination of high temperatures and drought is associated to the increase in transpiration modulated by a reduction in abscisic acid levels. BMC Plant Biology, 2016, 16, 105.	3.6	183
30	CIPK23 regulates HAK5-mediated high-affinity K+ uptake in Arabidopsis roots. Plant Physiology, 2015, 169, pp.01401.2015.	4.8	174
31	High Ca2+ reverts the repression of high-affinity K+ uptake produced by Na+ in Solanum lycopersycum L. (var. microtom) plants. Journal of Plant Physiology, 2015, 180, 72-79.	3.5	30
32	Developmental and metabolic plasticity of white-skinned grape berries in response to Botrytis cinerea during noble rot. Plant Physiology, 2015, 169, pp.00852.2015.	4.8	84
33	The F130S point mutation in the Arabidopsis high-affinity K+ transporter AtHAK5 increases K+ over Na+ and Cs+ selectivity and confers Na+ and Cs+ tolerance to yeast under heterologous expression. Frontiers in Plant Science, 2014, 5, 430.	3.6	68
34	The combined effect of salinity and heat reveals a specific physiological, biochemical and molecular response in tomato plants. Plant, Cell and Environment, 2014, 37, 1059-1073.	5.7	309
35	Abiotic and biotic stress combinations. New Phytologist, 2014, 203, 32-43.	7.3	1,460
36	A low K⁺ signal is required for functional highâ€affinity K⁺ uptake through <scp>HAK5</scp> transporters. Physiologia Plantarum, 2014, 152, 558-570.	5.2	60

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37	Glutathione homeostasis as an important and novel factor controlling blossom-end rot development in calcium-deficient tomato fruits. Journal of Plant Physiology, 2012, 169, 1719-1727.	3.5	36
38	Enhanced Cytokinin Synthesis in Tobacco Plants Expressing PSARK::IPT Prevents the Degradation of Photosynthetic Protein Complexes During Drought. Plant and Cell Physiology, 2010, 51, 1929-1941.	3.1	155
39	Cytokinin-Dependent Photorespiration and the Protection of Photosynthesis during Water Deficit Â Â. Plant Physiology, 2009, 150, 1530-1540.	4.8	228
40	Delayed leaf senescence induces extreme drought tolerance in a flowering plant. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19631-19636.	7.1	768
41	Comparative effect of Al, Se, and Mo toxicity on NO3â^' assimilation in sunflower (Helianthus annuus) Tj ETQq1 1 0.784314 rgBT /Overl	7.8	37
42	Grafting between tobacco plants to enhance salinity tolerance. Journal of Plant Physiology, 2006, 163, 1229-1237.	3.5	21
43	Boron Increases Synthesis of Glutathione in Sunflower Plants Subjected to Aluminum Stress. Plant and Soil, 2006, 279, 25-30.	3.7	47
44	Grafting to improve nitrogen-use efficiency traits in tobacco plants. Journal of the Science of Food and Agriculture, 2006, 86, 1014-1021.	3.5	26
45	Nicotine-free and salt-tolerant tobacco plants obtained by grafting to salinity-resistant rootstocks of tomato. Physiologia Plantarum, 2005, 124, 465-475.	5.2	59
46	Evaluation of some nutritional and biochemical indicators in selecting salt-resistant tomato cultivars. Environmental and Experimental Botany, 2005, 54, 193-201.	4.2	156
47	Regulation of Nitrogen Assimilation by Sulfur in Bean. Journal of Plant Nutrition, 2005, 28, 1163-1174.	1.9	8
48	Iron Metabolism in Tomato and Watermelon Plants: Influence of Grafting. Journal of Plant Nutrition, 2005, 27, 2221-2234.	1.9	27
49	Importance of N Source on Heat Stress Tolerance Due to the Accumulation of Proline and Quaternary Ammonium Compounds in Tomato Plants. Plant Biology, 2004, 6, 702-707.	3.8	45
50	Yield and biosynthesis of nitrogenous compounds in fruits of green bean(Phaseolus vulgaris L cv) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 84, 575-580.	3.5	7
51	Changes in biomass, enzymatic activity and protein concentration in roots and leaves of green bean plants (Phaseolus vulgaris L. cv. Strike) under high NH4NO3 application rates. Scientia Horticulturae, 2004, 99, 237-248.	3.6	65
52	Oxidative metabolism in tomato plants subjected to heat stress. Journal of Horticultural Science and Biotechnology, 2004, 79, 560-564.	1.9	61
53	Iron Metabolism in Tomato and Watermelon Plants: Influence of Grafting. Journal of Plant Nutrition, 2004, 27, 2221-2234.	1.9	0
54	Role of Ca2+ in the metabolism of phenolic compounds in tobacco leaves (Nicotiana tabacum L.). Plant Growth Regulation, 2003, 41, 173-177.	3.4	50

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55	The Role of Fungicides in the Physiology of Higher Plants: Implications for Defense Responses. Botanical Review, The, 2003, 69, 162-172.	3.9	72
56	Can grafting in tomato plants strengthen resistance to thermal stress?. Journal of the Science of Food and Agriculture, 2003, 83, 1315-1319.	3.5	65
57	Does grafting provide tomato plants an advantage against H2 O2 production under conditions of thermal shock?. Physiologia Plantarum, 2003, 117, 44-50.	5.2	75
58	Preliminary studies on the involvement of biosynthesis of cysteine and glutathione concentration in the resistance to B toxicity in sunflower plants. Plant Science, 2003, 165, 811-817.	3.6	44
59	Influence of temperature on biomass, iron metabolism and some related bioindicators in tomato and watermelon plants. Journal of Plant Physiology, 2003, 160, 1065-1071.	3.5	17
60	Sulphur Phytoaccumulation in Plant Species Characteristic of Gypsiferous Soils. International Journal of Phytoremediation, 2003, 5, 203-210.	3.1	38
61	Iron Metabolism in Tomato and Watermelon Plants: Influence of Nitrogen Source. Journal of Plant Nutrition, 2003, 26, 2413-2424.	1.9	6
62	Is the Application of Carbendazim Harmful to Healthy Plants? Evidence of Weak Phytotoxicity in Tobacco. Journal of Agricultural and Food Chemistry, 2002, 50, 279-283.	5.2	22
63	BORON EFFECT ON MINERAL NUTRIENTS OF TOBACCO. Journal of Plant Nutrition, 2002, 25, 509-522.	1.9	42
64	Proline metabolism and NAD kinase activity in greenbean plants subjected to cold-shock. Phytochemistry, 2002, 59, 473-478.	2.9	88
65	Title is missing!. Plant Growth Regulation, 2002, 36, 231-236.	3.4	6
66	Title is missing!. Plant Growth Regulation, 2002, 36, 261-265.	3.4	22
67	Response of oxidative metabolism in watermelon plants subjected to cold stress. Functional Plant Biology, 2002, 29, 643.	2.1	27
68	Direct Action of the Biocide Carbendazim on Phenolic Metabolism in Tobacco Plants. Journal of Agricultural and Food Chemistry, 2001, 49, 131-137.	5.2	27
69	Proline metabolism in response to highest nitrogen dosages in green bean plants (Phaseolus vulgaris) Tj ETQq1 1 0.784314 rgBT /Overlo	3.5	72
70	Resistance to cold and heat stress: accumulation of phenolic compounds in tomato and watermelon plants. Plant Science, 2001, 160, 315-321.	3.6	560
71	Preliminary studies on the influence of boron on the foliar biomass and quality of tobacco leaves subjected to fertilisation. Journal of the Science of Food and Agriculture, 2001, 81, 739-744.	3.5	8
72	Effect of calcium on mineral nutrient uptake and growth of tobacco. Journal of the Science of Food and Agriculture, 2001, 81, 1334-1338.	3.5	39

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73	Response of oxidative metabolism to the application of carbendazim plus boron in tobacco. Functional Plant Biology, 2001, 28, 801.	2.1	6
74	Applications in sustainable production. Communications in Soil Science and Plant Analysis, 2000, 31, 2309-2320.	1.4	1
75	Phenolic and Oxidative Metabolism as Bioindicators of Nitrogen Deficiency in French Bean Plants (Phaseolus vulgaris L. cv. Strike). Plant Biology, 2000, 2, 272-277.	3.8	23
76	Role of CaCl2 in Ammonium Assimilation in Roots of Tobacco Plants (Nicotiana tabacum L.). Journal of Plant Physiology, 2000, 156, 672-677.	3.5	23
77	Response of phenolic metabolism to the application of carbendazim plus boron in tobacco. Physiologia Plantarum, 1999, 106, 151-157.	5.2	64
78	Role of CaCl2 in nitrate assimilation in leaves and roots of tobacco plants (Nicotiana tabacum L.). Plant Science, 1999, 141, 107-115.	3.6	39