

# Rosa M Rivero

## List of Publications by Year in descending order

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78  
papers

9,016  
citations

87888

38  
h-index

66911

78  
g-index

84  
all docs

84  
docs citations

84  
times ranked

10179  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive oxygen species, abiotic stress and stress combination. <i>Plant Journal</i> , 2017, 90, 856-867.	5.7	1,759
2	Abiotic and biotic stress combinations. <i>New Phytologist</i> , 2014, 203, 32-43.	7.3	1,460
3	Delayed leaf senescence induces extreme drought tolerance in a flowering plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19631-19636.	7.1	768
4	Resistance to cold and heat stress: accumulation of phenolic compounds in tomato and watermelon plants. <i>Plant Science</i> , 2001, 160, 315-321.	3.6	560
5	The combined effect of salinity and heat reveals a specific physiological, biochemical and molecular response in tomato plants. <i>Plant, Cell and Environment</i> , 2014, 37, 1059-1073.	5.7	309
6	ABA Is Required for Plant Acclimation to a Combination of Salt and Heat Stress. <i>PLoS ONE</i> , 2016, 11, e0147625.	2.5	267
7	Tolerance to Stress Combination in Tomato Plants: New Insights in the Protective Role of Melatonin. <i>Molecules</i> , 2018, 23, 535.	3.8	246
8	Cytokinin-Dependent Photorespiration and the Protection of Photosynthesis during Water Deficit. <i>Plant Physiology</i> , 2009, 150, 1530-1540.	4.8	228
9	Accumulation of Flavonols over Hydroxycinnamic Acids Favors Oxidative Damage Protection under Abiotic Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 838.	3.6	202
10	Developing climate-resilient crops: improving plant tolerance to stress combination. <i>Plant Journal</i> , 2022, 109, 373-389.	5.7	198
11	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. <i>BMC Plant Biology</i> , 2016, 16, 105.	3.6	183
12	CIPK23 regulates HAK5-mediated high-affinity K <sup>+</sup> uptake in Arabidopsis roots. <i>Plant Physiology</i> , 2015, 169, pp.01401.2015.	4.8	174
13	Evaluation of some nutritional and biochemical indicators in selecting salt-resistant tomato cultivars. <i>Environmental and Experimental Botany</i> , 2005, 54, 193-201.	4.2	156
14	Enhanced Cytokinin Synthesis in Tobacco Plants Expressing PSARK::IPT Prevents the Degradation of Photosynthetic Protein Complexes During Drought. <i>Plant and Cell Physiology</i> , 2010, 51, 1929-1941.	3.1	155
15	Red blotch disease alters grape berry development and metabolism by interfering with the transcriptional and hormonal regulation of ripening. <i>Journal of Experimental Botany</i> , 2017, 68, 1225-1238.	4.8	92
16	Proline metabolism and NAD kinase activity in greenbean plants subjected to cold-shock. <i>Phytochemistry</i> , 2002, 59, 473-478.	2.9	88
17	Developmental and metabolic plasticity of white-skinned grape berries in response to <i>Botrytis cinerea</i> during noble rot. <i>Plant Physiology</i> , 2015, 169, pp.00852.2015.	4.8	84
18	Does grafting provide tomato plants an advantage against H <sub>2</sub> O <sub>2</sub> production under conditions of thermal shock?. <i>Physiologia Plantarum</i> , 2003, 117, 44-50.	5.2	75

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19	Uneven HAK/KUP/KT Protein Diversity Among Angiosperms: Species Distribution and Perspectives. <i>Frontiers in Plant Science</i> , 2016, 7, 127.	3.6	75
20	Ethylene regulation of sugar metabolism in climacteric and non-climacteric plums. <i>Postharvest Biology and Technology</i> , 2018, 139, 20-30.	6.0	74
21	ROS and NO Regulation by Melatonin Under Abiotic Stress in Plants. <i>Antioxidants</i> , 2020, 9, 1078.	5.1	73
22	Proline metabolism in response to highest nitrogen dosages in green bean plants ( <i>Phaseolus vulgaris</i> ) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	3.5	72
23	The Role of Fungicides in the Physiology of Higher Plants: Implications for Defense Responses. <i>Botanical Review</i> , The, 2003, 69, 162-172.	3.9	72
24	The F130S point mutation in the Arabidopsis high-affinity K <sup>+</sup> transporter AtHAK5 increases K <sup>+</sup> over Na <sup>+</sup> and Cs <sup>+</sup> selectivity and confers Na <sup>+</sup> and Cs <sup>+</sup> tolerance to yeast under heterologous expression. <i>Frontiers in Plant Science</i> , 2014, 5, 430.	3.6	68
25	Can grafting in tomato plants strengthen resistance to thermal stress?. <i>Journal of the Science of Food and Agriculture</i> , 2003, 83, 1315-1319.	3.5	65
26	Changes in biomass, enzymatic activity and protein concentration in roots and leaves of green bean plants ( <i>Phaseolus vulgaris</i> L. cv. Strike) under high NH <sub>4</sub> NO <sub>3</sub> application rates. <i>Scientia Horticulturae</i> , 2004, 99, 237-248.	3.6	65
27	Response of phenolic metabolism to the application of carbendazim plus boron in tobacco. <i>Physiologia Plantarum</i> , 1999, 106, 151-157.	5.2	64
28	Oxidative metabolism in tomato plants subjected to heat stress. <i>Journal of Horticultural Science and Biotechnology</i> , 2004, 79, 560-564.	1.9	61
29	A low K <sup>+</sup> signal is required for functional high-affinity K <sup>+</sup> uptake through HAK5 transporters. <i>Physiologia Plantarum</i> , 2014, 152, 558-570.	5.2	60
30	Nicotine-free and salt-tolerant tobacco plants obtained by grafting to salinity-resistant rootstocks of tomato. <i>Physiologia Plantarum</i> , 2005, 124, 465-475.	5.2	59
31	Role of Ca <sup>2+</sup> in the metabolism of phenolic compounds in tobacco leaves ( <i>Nicotiana tabacum</i> L.). <i>Plant Growth Regulation</i> , 2003, 41, 173-177.	3.4	50
32	Amelioration of the Oxidative Stress Generated by Simple or Combined Abiotic Stress through the K <sup>+</sup> and Ca <sup>2+</sup> Supplementation in Tomato Plants. <i>Antioxidants</i> , 2019, 8, 81.	5.1	49
33	Boron Increases Synthesis of Glutathione in Sunflower Plants Subjected to Aluminum Stress. <i>Plant and Soil</i> , 2006, 279, 25-30.	3.7	47
34	Importance of N Source on Heat Stress Tolerance Due to the Accumulation of Proline and Quaternary Ammonium Compounds in Tomato Plants. <i>Plant Biology</i> , 2004, 6, 702-707.	3.8	45
35	Preliminary studies on the involvement of biosynthesis of cysteine and glutathione concentration in the resistance to B toxicity in sunflower plants. <i>Plant Science</i> , 2003, 165, 811-817.	3.6	44
36	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. <i>Agricultural Water Management</i> , 2017, 183, 158-168.	5.6	44

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37	BORON EFFECT ON MINERAL NUTRIENTS OF TOBACCO. <i>Journal of Plant Nutrition</i> , 2002, 25, 509-522.	1.9	42
38	Sugar metabolism reprogramming in a non-climacteric bud mutant of a climacteric plum fruit during development on the tree. <i>Journal of Experimental Botany</i> , 2017, 68, 5813-5828.	4.8	42
39	Role of CaCl <sub>2</sub> in nitrate assimilation in leaves and roots of tobacco plants ( <i>Nicotiana tabacum</i> L.). <i>Plant Science</i> , 1999, 141, 107-115.	3.6	39
40	Effect of calcium on mineral nutrient uptake and growth of tobacco. <i>Journal of the Science of Food and Agriculture</i> , 2001, 81, 1334-1338.	3.5	39
41	Sulphur Phytoaccumulation in Plant Species Characteristic of Gypsiferous Soils. <i>International Journal of Phytoremediation</i> , 2003, 5, 203-210.	3.1	38
42	Modulation of K <sup>+</sup> translocation by AKT1 and AtHAK5 in Arabidopsis plants. <i>Plant, Cell and Environment</i> , 2019, 42, 2357-2371.	5.7	38
43	Critical responses to nutrient deprivation: A comprehensive review on the role of ROS and RNS. <i>Environmental and Experimental Botany</i> , 2019, 161, 74-85.	4.2	38
44	Comparative effect of Al, Se, and Mo toxicity on NO <sub>3</sub> <sup>-</sup> assimilation in sunflower ( <i>Helianthus annuus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tt	7.8	37
45	Artificial light impacts the physical and nutritional quality of lettuce plants. <i>Horticulture Environment and Biotechnology</i> , 2020, 61, 69-82.	2.1	37
46	Glutathione homeostasis as an important and novel factor controlling blossom-end rot development in calcium-deficient tomato fruits. <i>Journal of Plant Physiology</i> , 2012, 169, 1719-1727.	3.5	36
47	Synchronization of proline, ascorbate and oxidative stress pathways under the combination of salinity and heat in tomato plants. <i>Environmental and Experimental Botany</i> , 2021, 183, 104351.	4.2	35
48	High Ca <sup>2+</sup> reverts the repression of high-affinity K <sup>+</sup> uptake produced by Na <sup>+</sup> in <i>Solanum lycopersicum</i> L. (var. microtom) plants. <i>Journal of Plant Physiology</i> , 2015, 180, 72-79.	3.5	30
49	Potassium fertilization enhances pepper fruit quality. <i>Journal of Plant Nutrition</i> , 2017, 40, 145-155.	1.9	28
50	Direct Action of the Biocide Carbendazim on Phenolic Metabolism in Tobacco Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 131-137.	5.2	27
51	Iron Metabolism in Tomato and Watermelon Plants: Influence of Grafting. <i>Journal of Plant Nutrition</i> , 2005, 27, 2221-2234.	1.9	27
52	Response of oxidative metabolism in watermelon plants subjected to cold stress. <i>Functional Plant Biology</i> , 2002, 29, 643.	2.1	27
53	Grafting to improve nitrogen-use efficiency traits in tobacco plants. <i>Journal of the Science of Food and Agriculture</i> , 2006, 86, 1014-1021.	3.5	26
54	ROS and NO Phytomelatonin-Induced Signaling Mechanisms under Metal Toxicity in Plants: A Review. <i>Antioxidants</i> , 2021, 10, 775.	5.1	26

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55	Phenolic and Oxidative Metabolism as Bioindicators of Nitrogen Deficiency in French Bean Plants ( <i>Phaseolus vulgaris</i> L. cv. Strike). <i>Plant Biology</i> , 2000, 2, 272-277.	3.8	23
56	Role of CaCl <sub>2</sub> in Ammonium Assimilation in Roots of Tobacco Plants ( <i>Nicotiana tabacum</i> L.). <i>Journal of Plant Physiology</i> , 2000, 156, 672-677.	3.5	23
57	Is the Application of Carbendazim Harmful to Healthy Plants? Evidence of Weak Phytotoxicity in Tobacco. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 279-283.	5.2	22
58	Title is missing!. <i>Plant Growth Regulation</i> , 2002, 36, 261-265.	3.4	22
59	Grafting between tobacco plants to enhance salinity tolerance. <i>Journal of Plant Physiology</i> , 2006, 163, 1229-1237.	3.5	21
60	Using Tomato Recombinant Lines to Improve Plant Tolerance to Stress Combination Through a More Efficient Nitrogen Metabolism. <i>Frontiers in Plant Science</i> , 2019, 10, 1702.	3.6	21
61	Hormone balance in a climacteric plum fruit and its non-climacteric bud mutant during ripening. <i>Plant Science</i> , 2019, 280, 51-65.	3.6	20
62	Root high-affinity K <sup>+</sup> and Cs <sup>+</sup> uptake and plant fertility in tomato plants are dependent on the activity of the high-affinity K <sup>+</sup> transporter <i>SlHAK5</i> . <i>Plant, Cell and Environment</i> , 2020, 43, 1707-1721.	5.7	19
63	Influence of temperature on biomass, iron metabolism and some related bioindicators in tomato and watermelon plants. <i>Journal of Plant Physiology</i> , 2003, 160, 1065-1071.	3.5	17
64	Alternate bearing in fruit trees: fruit presence induces polar auxin transport in citrus and olive stem and represses IAA release from the bud. <i>Journal of Experimental Botany</i> , 2021, 72, 2450-2462.	4.8	17
65	Bioactive Compounds of Tomato Fruit in Response to Salinity, Heat and Their Combination. <i>Agriculture (Switzerland)</i> , 2021, 11, 534.	3.1	14
66	Interaction between Melatonin and NO: Action Mechanisms, Main Targets, and Putative Roles of the Emerging Molecule NOMela. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6646.	4.1	12
67	Preliminary studies on the influence of boron on the foliar biomass and quality of tobacco leaves subjected to fertilisation. <i>Journal of the Science of Food and Agriculture</i> , 2001, 81, 739-744.	3.5	8
68	Regulation of Nitrogen Assimilation by Sulfur in Bean. <i>Journal of Plant Nutrition</i> , 2005, 28, 1163-1174.	1.9	8
69	Pharmacological and gene regulation properties point to the <i>SlHAK5</i> K <sup>+</sup> transporter as a system for high-affinity Cs <sup>+</sup> uptake in tomato plants. <i>Physiologia Plantarum</i> , 2018, 162, 455-466.	5.2	8
70	Yield and biosynthesis of nitrogenous compounds in fruits of green bean ( <i>Phaseolus vulgaris</i> L cv) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 84, 575-580.	3.5	7
71	Title is missing!. <i>Plant Growth Regulation</i> , 2002, 36, 231-236.	3.4	6
72	Iron Metabolism in Tomato and Watermelon Plants: Influence of Nitrogen Source. <i>Journal of Plant Nutrition</i> , 2003, 26, 2413-2424.	1.9	6

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73	Response of oxidative metabolism to the application of carbendazim plus boron in tobacco. <i>Functional Plant Biology</i> , 2001, 28, 801.	2.1	6
74	The Forner Alcaide nÂ° 5 citrus genotype shows a different physiological response to the excess of boron in the irrigation water in relation to its two genotype progenitors. <i>Scientia Horticulturae</i> , 2019, 245, 19-28.	3.6	4
75	Deciphering fruit sugar transport and metabolism from tolerant and sensitive tomato plants subjected to simulated field conditions. <i>Physiologia Plantarum</i> , 2021, 173, 1715-1728.	5.2	3
76	Applications in sustainable production. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 2309-2320.	1.4	1
77	Editorial. <i>Physiologia Plantarum</i> , 2019, 165, 125-127.	5.2	1
78	Iron Metabolism in Tomato and Watermelon Plants: Influence of Grafting. <i>Journal of Plant Nutrition</i> , 2004, 27, 2221-2234.	1.9	0