

# Begoa Blasco

## List of Publications by Citations

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

1,999

citations

25

h-index

43

g-index

70

ext. papers

2,332

ext. citations

4.1

avg. IF

4.64

L-index

#	Paper	IF	Citations
68	Genotypic differences in some physiological parameters symptomatic for oxidative stress under moderate drought in tomato plants. <i>Plant Science</i> , <b>2010</b> , 178, 30-40	5.3	246
67	Oxidative stress and antioxidants in tomato ( <i>Solanum lycopersicum</i> ) plants subjected to boron toxicity. <i>Annals of Botany</i> , <b>2007</b> , 100, 747-56	4.1	185
66	Iodine biofortification and antioxidant capacity of lettuce: potential benefits for cultivation and human health. <i>Annals of Applied Biology</i> , <b>2008</b> , 152, 289-299	2.6	102
65	Silicon-mediated Improvement in Plant Salinity Tolerance: The Role of Aquaporins. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 948	6.2	93
64	Biofortification of Se and induction of the antioxidant capacity in lettuce plants. <i>Scientia Horticulturae</i> , <b>2008</b> , 116, 248-255	4.1	87
63	Production and detoxification of H <sub>2</sub> O <sub>2</sub> in lettuce plants exposed to selenium. <i>Annals of Applied Biology</i> , <b>2009</b> , 154, 107-116	2.6	75
62	Antioxidant response resides in the shoot in reciprocal grafts of drought-tolerant and drought-sensitive cultivars in tomato under water stress. <i>Plant Science</i> , <b>2012</b> , 188-189, 89-96	5.3	70
61	The effect of environmental conditions on nutritional quality of cherry tomato fruits: evaluation of two experimental Mediterranean greenhouses. <i>Journal of the Science of Food and Agriculture</i> , <b>2011</b> , 91, 152-62	4.3	67
60	Role of GSH homeostasis under Zn toxicity in plants with different Zn tolerance. <i>Plant Science</i> , <b>2014</b> , 227, 110-21	5.3	57
59	Beneficial effects of exogenous iodine in lettuce plants subjected to salinity stress. <i>Plant Science</i> , <b>2011</b> , 181, 195-202	5.3	47
58	Response of nitrogen metabolism to boron toxicity in tomato plants. <i>Plant Biology</i> , <b>2009</b> , 11, 671-7	3.7	47
57	Involvement of lignification and membrane permeability in the tomato root response to boron toxicity. <i>Plant Science</i> , <b>2009</b> , 176, 545-52	5.3	47
56	Study of the ionome and uptake fluxes in cherry tomato plants under moderate water stress conditions. <i>Plant and Soil</i> , <b>2010</b> , 335, 339-347	4.2	47
55	Ammonia production and assimilation: its importance as a tolerance mechanism during moderate water deficit in tomato plants. <i>Journal of Plant Physiology</i> , <b>2011</b> , 168, 816-23	3.6	45
54	Nicotine-free and salt-tolerant tobacco plants obtained by grafting to salinity-resistant rootstocks of tomato. <i>Physiologia Plantarum</i> , <b>2005</b> , 124, 465-475	4.6	44
53	Response of nitrogen metabolism in lettuce plants subjected to different doses and forms of selenium. <i>Journal of the Science of Food and Agriculture</i> , <b>2010</b> , 90, 1914-9	4.3	42
52	Does iodine biofortification affect oxidative metabolism in lettuce plants?. <i>Biological Trace Element Research</i> , <b>2011</b> , 142, 831-42	4.5	39

51	Antioxidant response and carboxylate metabolism in Brassica rapa exposed to different external Zn, Ca, and Mg supply. <i>Journal of Plant Physiology</i> , <b>2015</b> , 176, 16-24	3.6	37
50	Iodine effects on phenolic metabolism in lettuce plants under salt stress. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 2591-6	5.7	32
49	Photorespiration Process and Nitrogen Metabolism in Lettuce Plants ( <i>Lactuca sativa</i> L.): Induced Changes in Response to Iodine Biofortification. <i>Journal of Plant Growth Regulation</i> , <b>2010</b> , 29, 477-486	4.7	32
48	Parameters Symptomatic for Boron Toxicity in Leaves of Tomato Plants. <i>Journal of Botany</i> , <b>2012</b> , 2012, 1-17	0	31
47	Influence of the proline metabolism and glycine betaine on tolerance to salt stress in tomato ( <i>Solanum lycopersicum</i> L.) commercial genotypes. <i>Journal of Plant Physiology</i> , <b>2018</b> , 231, 329-336	3.6	30
46	Genetical and comparative genomics of Brassica under altered Ca supply identifies Arabidopsis Ca-transporter orthologs. <i>Plant Cell</i> , <b>2014</b> , 26, 2818-30	11.6	27
45	Regulation of sulphur assimilation in lettuce plants in the presence of selenium. <i>Plant Growth Regulation</i> , <b>2008</b> , 56, 43-51	3.2	26
44	Zinc biofortification improves phytochemicals and amino-acidic profile in Brassica oleracea cv. Bronco. <i>Plant Science</i> , <b>2017</b> , 258, 45-51	5.3	25
43	Comparative study of the toxic effect of Zn in <i>Lactuca sativa</i> and Brassica oleracea plants: I. Growth, distribution, and accumulation of Zn, and metabolism of carboxylates. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 107, 98-104	5.9	24
42	Nitrogen-Use Efficiency in Relation to Different Forms and Application Rates of Se in Lettuce Plants. <i>Journal of Plant Growth Regulation</i> , <b>2010</b> , 29, 164-170	4.7	24
41	STUDY OF THE INTERACTIONS BETWEEN IODINE AND MINERAL NUTRIENTS IN LETTUCE PLANTS. <i>Journal of Plant Nutrition</i> , <b>2012</b> , 35, 1958-1969	2.3	23
40	Study of phytohormone profile and oxidative metabolism as key process to identification of salinity response in tomato commercial genotypes. <i>Journal of Plant Physiology</i> , <b>2017</b> , 216, 164-173	3.6	22
39	Response of carbon and nitrogen-rich metabolites to nitrogen deficiency in PSARK::IPT tobacco plants. <i>Plant Physiology and Biochemistry</i> , <b>2012</b> , 57, 231-7	5.4	22
38	Phytohormone profile in <i>Lactuca sativa</i> and Brassica oleracea plants grown under Zn deficiency. <i>Phytochemistry</i> , <b>2016</b> , 130, 85-9	4	21
37	Cytokinin-dependent improvement in transgenic P(SARK)::IPT tobacco under nitrogen deficiency. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 10491-5	5.7	19
36	Photosynthesis and metabolism of sugars from lettuce plants ( <i>Lactuca sativa</i> L. var. longifolia) subjected to biofortification with iodine. <i>Plant Growth Regulation</i> , <b>2011</b> , 65, 137-143	3.2	18
35	Environmental conditions in relation to stress in cherry tomato fruits in two experimental Mediterranean greenhouses. <i>Journal of the Science of Food and Agriculture</i> , <b>2009</b> , 89, 735-742	4.3	18
34	Ammonium formation and assimilation in P(SARK)::IPT tobacco transgenic plants under low N. <i>Journal of Plant Physiology</i> , <b>2012</b> , 169, 157-62	3.6	17

33	NUTRITIONAL BALANCE CHANGES IN LETTUCE PLANT GROWN UNDER DIFFERENT DOSES AND FORMS OF SELENIUM. <i>Journal of Plant Nutrition</i> , <b>2013</b> , 36, 1344-1354	2.3	17
32	Possible role of HMA4a TILLING mutants of Brassica rapa in cadmium phytoremediation programs. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 180, 88-94	7	15
31	Comparative study of Zn deficiency in L. sativa and B. oleracea plants: NH4(+) assimilation and nitrogen derived protective compounds. <i>Plant Science</i> , <b>2016</b> , 248, 8-16	5.3	15
30	Effects of climatic control on tomato yield and nutritional quality in Mediterranean screenhouse. <i>Journal of the Science of Food and Agriculture</i> , <b>2014</b> , 94, 63-70	4.3	15
29	Hydrogen sulphide increase the tolerance to alkalinity stress in cabbage plants ( Brassica oleracea L. 'Bronco'). <i>Scientia Horticulturae</i> , <b>2018</b> , 235, 349-356	4.1	13
28	Biofortification with potassium: antioxidant responses during postharvest of cherry tomato fruits in cold storage. <i>Acta Physiologiae Plantarum</i> , <b>2014</b> , 36, 283-293	2.6	13
27	Zn-biofortification enhanced nitrogen metabolism and photorespiration process in green leafy vegetable Lactuca sativa L. <i>Journal of the Science of Food and Agriculture</i> , <b>2017</b> , 97, 1828-1836	4.3	11
26	Variation in the use efficiency of N under moderate water deficit in tomato plants (Solanum lycopersicum) differing in their tolerance to drought. <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 1861-1865	2.6	11
25	Environmental conditions affect pectin solubilization in cherry tomato fruits grown in two experimental Mediterranean greenhouses. <i>Environmental and Experimental Botany</i> , <b>2009</b> , 67, 320-327	5.9	11
24	Physiological profile of CAX1a TILLING mutants of Brassica rapa exposed to different calcium doses. <i>Plant Science</i> , <b>2018</b> , 272, 164-172	5.3	9
23	Study of Zn accumulation and tolerance of HMA4 TILLING mutants of Brassica rapa grown under Zn deficiency and Zn toxicity. <i>Plant Science</i> , <b>2019</b> , 287, 110201	5.3	8
22	Comparative study of the toxic effect of salinity in different genotypes of tomato plants: Carboxylates metabolism. <i>Scientia Horticulturae</i> , <b>2017</b> , 217, 173-178	4.1	6
21	Study of salt-stress tolerance and defensive mechanisms in Brassica rapa CAX1a TILLING mutants. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 175, 104061	5.9	6
20	Iodine application affects nitrogen-use efficiency of lettuce plants (Lactuca sativa L.). <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , <b>2011</b> , 61, 378-383	1.1	6
19	A Fogging System Improves Antioxidative Defense Responses and Productivity in Tomato. <i>Journal of the American Society for Horticultural Science</i> , <b>2013</b> , 138, 267-276	2.3	6
18	Effects of asparagus decline on nutrients and phenolic compounds, spear quality, and allelopathy. <i>Scientia Horticulturae</i> , <b>2020</b> , 261, 109029	4.1	6
17	Oxidative Stress in Relation With Micronutrient Deficiency or Toxicity <b>2018</b> , 181-194		6
16	Analysis of metabolic and nutritional biomarkers in Brassica oleracea L. cv. Bronco plants under alkaline stress. <i>Journal of Horticultural Science and Biotechnology</i> , <b>2018</b> , 93, 279-288	1.9	5

15	Physiological and Nutritional Evaluation of the Application of Phosphite as a Phosphorus Source in Cucumber Plants. <i>Communications in Soil Science and Plant Analysis</i> , <b>2014</b> , 45, 204-222	1.5	5
14	The application of the silicon-based biostimulant Codasil <sup>®</sup> offset water deficit of lettuce plants. <i>Scientia Horticulturae</i> , <b>2021</b> , 285, 110177	4.1	5
13	Effect of CAX1a TILLING mutations and calcium concentration on some primary metabolism processes in Brassica rapa plants. <i>Journal of Plant Physiology</i> , <b>2019</b> , 237, 51-60	3.6	4
12	Tolerance to cadmium toxicity and phytoremediation potential of three Brassica rapa CAX1a TILLING mutants. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 189, 109961	7	4
11	Nitrogen and photorespiration pathways, salt stress genotypic tolerance effects in tomato plants ( <i>Solanum lycopersicum</i> L.). <i>Acta Physiologiae Plantarum</i> , <b>2020</b> , 42, 1	2.6	3
10	Effect of CAX1a TILLING mutations on photosynthesis performance in salt-stressed Brassica rapa plants. <i>Plant Science</i> , <b>2021</b> , 311, 111013	5.3	3
9	Assaying the use of sodium thiosulphate as a biostimulant and its effect on cadmium accumulation and tolerance in Brassica oleracea plants. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 200, 110760	7	2
8	NaSH: Phytotoxin or biostimulant in N assimilation in Brassica oleracea L. Bronco plants?. <i>Scientia Horticulturae</i> , <b>2019</b> , 249, 471-477	4.1	1
7	A New Calcium Vectoring Technology: Concentration and Distribution of Ca and Agronomic Efficiency in Pepper Plants. <i>Agronomy</i> , <b>2022</b> , 12, 410	3.6	1
6	Calcium silicate ameliorates zinc deficiency and toxicity symptoms in barley plants through improvements in nitrogen metabolism and photosynthesis. <i>Acta Physiologiae Plantarum</i> , <b>2021</b> , 43, 1	2.6	1
5	CAX1a TILLING Mutations Modify the Hormonal Balance Controlling Growth and Ion Homeostasis in Brassica rapa Plants Subjected to Salinity. <i>Agronomy</i> , <b>2020</b> , 10, 1699	3.6	1
4	Response of carboxylate metabolism to zinc deficiency in Lactuca sativa and Brassica oleracea plants. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2016</b> , 179, 758-764	2.3	1
3	Physiological Study of the Efficacy of Archer <sup>®</sup> Eclipse in the Protection against Sunburn in Cucumber Plants. <i>Horticulturae</i> , <b>2022</b> , 8, 500	2.5	1
2	Improvement of the physiological response of barley plants to both Zinc deficiency and toxicity by the application of calcium silicate.. <i>Plant Science</i> , <b>2022</b> , 319, 111259	5.3	0
1	Evaluation of Physiological and Quality Parameters of Green Asparagus Spears Subjected to Three Treatments against the Decline Syndrome. <i>Agronomy</i> , <b>2021</b> , 11, 937	3.6	