

# Juan BarcelÃ³

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

3,824  
citations

186209

28  
h-index

276775

41  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of salt tolerance in <i>Arabidopsis thaliana</i> on siliceous soils does not confer tolerance to saline calcareous soils. <i>Plant and Soil</i> , 2022, 476, 455-475.	1.8	4
2	Luxury zinc supply acts as antiaging agent and enhances reproductive fitness in <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2021, 304, 110805.	1.7	1
3	Snails prefer it sweet: A multifactorial test of the metal defence hypothesis. <i>Physiologia Plantarum</i> , 2019, 165, 209-218.	2.6	5
4	How Plants Handle Trivalent (+3) Elements. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3984.	1.8	30
5	A proteomic approach to the mechanisms underlying activation of aluminium resistance in roots of <i>Urochloa decumbens</i> . <i>Journal of Inorganic Biochemistry</i> , 2018, 181, 145-151.	1.5	15
6	Transport and Use of Bicarbonate in Plants: Current Knowledge and Challenges Ahead. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1352.	1.8	71
7	Zinc hyperaccumulation substitutes for defense failures beyond salicylate and jasmonate signaling pathways of <i>Alternaria brassicicola</i> attack in <i>Noccaea caerulescens</i> . <i>Physiologia Plantarum</i> , 2017, 159, 401-415.	2.6	27
8	A highly versatile and easily configurable system for plant electrophysiology. <i>MethodsX</i> , 2016, 3, 436-451.	0.7	8
9	Zinc triggers signaling mechanisms and defense responses promoting resistance to <i>Alternaria brassicicola</i> in <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2016, 249, 13-24.	1.7	38
10	Differential activation of genes related to aluminium tolerance in two contrasting rice cultivars. <i>Journal of Inorganic Biochemistry</i> , 2015, 152, 160-166.	1.5	27
11	Both aluminum and ABA induce the expression of an ABC-like transporter gene (FeALS3) in the Al-tolerant species <i>Fagopyrum esculentum</i> . <i>Environmental and Experimental Botany</i> , 2015, 111, 74-82.	2.0	54
12	Membrane transporters mediating root signalling and adaptive responses to oxygen deprivation and soil flooding. <i>Plant, Cell and Environment</i> , 2014, 37, 2216-2233.	2.8	130
13	Fractionation of chromium in tannery sludge-amended soil and its availability to fenugreek plants. <i>Journal of Soils and Sediments</i> , 2014, 14, 697-702.	1.5	22
14	Lessons from crop plants struggling with salinity. <i>Plant Science</i> , 2014, 226, 2-13.	1.7	129
15	Do toxic ions induce hormesis in plants?. <i>Plant Science</i> , 2013, 212, 15-25.	1.7	219
16	Signal cross talk in <i>Arabidopsis</i> exposed to cadmium, silicon, and <i>Botrytis cinerea</i> . <i>Planta</i> , 2013, 237, 337-349.	1.6	70
17	Differential aluminum resistance in <i>Brachiaria</i> species. <i>Environmental and Experimental Botany</i> , 2013, 89, 11-18.	2.0	35
18	Shoot accumulation of several trace elements in native plant species from contaminated soils in the Peruvian Andes. <i>Journal of Geochemical Exploration</i> , 2012, 113, 106-111.	1.5	65

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19	<i>Cynara cardunculus</i> a potentially useful plant for remediation of soils polluted with cadmium or arsenic. <i>Journal of Geochemical Exploration</i> , 2012, 123, 122-127.	1.5	49
20	Accumulation of Pb and Zn in <i>Bidens triplinervia</i> and <i>Senecio</i> sp. spontaneous species from mine spoils in Peru and their potential use in phytoremediation. <i>Journal of Geochemical Exploration</i> , 2012, 123, 109-113.	1.5	62
21	Aluminium-induced changes in root epidermal cell patterning, a distinctive feature of hyperresistance to Al in <i>Brachiaria decumbens</i> . <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1477-1483.	1.5	41
22	Hyperaccumulation of trace elements: from uptake and tolerance mechanisms to litter decomposition; selenium as an example. <i>Plant and Soil</i> , 2011, 341, 31-35.	1.8	26
23	At the Crossroads of Metal Hyperaccumulation and Glucosinolates: Is There Anything Out There?. <i>Soil Biology</i> , 2010, , 139-161.	0.6	6
24	Different Effects of Aluminum on the Actin Cytoskeleton and Brefeldin A-Sensitive Vesicle Recycling in Root Apex Cells of Two Maize Varieties Differing in Root Elongation Rate and Aluminum Tolerance. <i>Plant and Cell Physiology</i> , 2009, 50, 528-540.	1.5	84
25	Trace element behaviour at the root-soil interface: Implications in phytoremediation. <i>Environmental and Experimental Botany</i> , 2009, 67, 243-259.	2.0	340
26	Sodium-calcium interactions with growth, water, and photosynthetic parameters in salt-treated beans. <i>Journal of Plant Nutrition and Soil Science</i> , 2009, 172, 637-643.	1.1	21
27	Glucosinolate Profiles Change During the Life Cycle and Mycorrhizal Colonization in a Cd/Zn Hyperaccumulator <i>Thlaspi praecox</i> (Brassicaceae). <i>Journal of Chemical Ecology</i> , 2008, 34, 1038-1044.	0.9	27
28	A glance into aluminum toxicity and resistance in plants. <i>Science of the Total Environment</i> , 2008, 400, 356-368.	3.9	349
29	Boron-induced amelioration of aluminium toxicity in a monocot and a dicot species. <i>Journal of Plant Physiology</i> , 2008, 165, 504-513.	1.6	80
30	Changes in elemental uptake and arbuscular mycorrhizal colonisation during the life cycle of <i>Thlaspi praecox</i> Wulfen. <i>Chemosphere</i> , 2007, 69, 1602-1609.	4.2	50
31	Can metals defend plants against biotic stress?. <i>Trends in Plant Science</i> , 2006, 11, 288-295.	4.3	228
32	Distinctive effects of cadmium on glucosinolate profiles in Cd hyperaccumulator <i>Thlaspi praecox</i> and non-hyperaccumulator <i>Thlaspi arvense</i> . <i>Plant and Soil</i> , 2006, 288, 333-341.	1.8	69
33	Root cell patterning: a primary target for aluminium toxicity in maize. <i>Journal of Experimental Botany</i> , 2005, 56, 1213-1220.	2.4	211
34	Title is missing!. <i>Plant and Soil</i> , 2003, 251, 55-63.	1.8	52
35	Fast root growth responses, root exudates, and internal detoxification as clues to the mechanisms of aluminium toxicity and resistance: a review. <i>Environmental and Experimental Botany</i> , 2002, 48, 75-92.	2.0	823
36	Influence of zinc hyperaccumulation on glucosinolates in <i>Thlaspi caerulescens</i> . <i>New Phytologist</i> , 2001, 151, 621-626.	3.5	71

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37	Title is missing!. Plant and Soil, 2001, 230, 247-256.	1.8	85
38	Determination of glucosinolates in rapeseed and <i>Thlaspi caerulescens</i> plants by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry. Journal of Chromatography A, 2000, 889, 75-81.	1.8	47
39	Influence of silicon pretreatment on aluminium toxicity in maize roots. Plant and Soil, 1997, 190, 203-209.	1.8	68
40	Zinc hyperaccumulation in <i>Thlaspi caerulescens</i> . I. Influence on growth and mineral nutrition. Journal of Plant Nutrition, 1996, 19, 1531-1540.	0.9	49
41	Beneficial and Toxic Effects of Chromium in Plants: Solution Culture, Pot and Field Studies.. Studies in Environmental Science, 1993, , 147-171.	0.0	29