

JosÃ© J Pueyo

List of Publications by Year in descending order

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72
papers

2,875
citations

136740

32
h-index

182168

51
g-index

74
all docs

74
docs citations

74
times ranked

3229
citing authors

#	ARTICLE	IF	CITATIONS
1	Transgenic Pea Seeds Expressing the α -Amylase Inhibitor of the Common Bean are Resistant to Bruchid Beetles. <i>Nature Biotechnology</i> , 1994, 12, 793-796.	9.4	221
2	The future of lupin as a protein crop in Europe. <i>Frontiers in Plant Science</i> , 2015, 6, 705.	1.7	203
3	Transgenic <i>Medicago truncatula</i> plants that accumulate proline display nitrogen-fixing activity with enhanced tolerance to osmotic stress. <i>Plant, Cell and Environment</i> , 2006, 29, 1913-1923.	2.8	127
4	Photoinhibition of Photosystem II from Higher Plants. <i>Journal of Biological Chemistry</i> , 1996, 271, 27408-27415.	1.6	121
5	The Symbiosome: Legume and Rhizobia Co-evolution toward a Nitrogen-Fixing Organelle?. <i>Frontiers in Plant Science</i> , 2017, 8, 2229.	1.7	119
6	Legumes in the reclamation of marginal soils, from cultivar and inoculant selection to transgenic approaches. <i>Agronomy for Sustainable Development</i> , 2012, 32, 65-91.	2.2	83
7	Activation of Bean (<i>Phaseolus vulgaris</i>) α -Amylase Inhibitor Requires Proteolytic Processing of the Proprotein. <i>Plant Physiology</i> , 1993, 101, 1341-1348.	2.3	81
8	A nodule endophytic <i>Bacillus megaterium</i> strain isolated from <i>Medicago polymorpha</i> enhances growth, promotes nodulation by <i>Ensifer medicae</i> and alleviates salt stress in alfalfa plants. <i>Annals of Applied Biology</i> , 2018, 172, 295-308.	1.3	72
9	Nitrogen fixation persists under conditions of salt stress in transgenic <i>Medicago truncatula</i> plants expressing a cyanobacterial flavodoxin. <i>Plant Biotechnology Journal</i> , 2010, 8, 954-965.	4.1	69
10	Water stress responses of two Mediterranean tree species influenced by native soil microorganisms and inoculation with a plant growth promoting rhizobacterium. <i>Tree Physiology</i> , 2008, 28, 1693-1701.	1.4	67
11	Laser flash photolysis studies of the kinetics of reduction of ferredoxins and ferredoxin-NADP ⁺ reductases from <i>Anabaena</i> PCC 7119 and spinach: Electrostatic effects on intracomplex electron transfer. <i>Archives of Biochemistry and Biophysics</i> , 1991, 287, 351-358.	1.4	64
12	Oxidation-reduction potentials of ferredoxin-NADP ⁺ reductase and flavodoxin from <i>Anabaena</i> PCC 7119 and their electrostatic and covalent complexes. <i>FEBS Journal</i> , 1991, 202, 1065-1071.	0.2	64
13	An unusual infection mechanism and nodule morphogenesis in white lupin (<i>Lupinus albus</i>). <i>New Phytologist</i> , 2004, 163, 371-380.	3.5	64
14	Inoculation of tomato plants with selected PGPR represents a feasible alternative to chemical fertilization under salt stress. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 694-703.	1.1	64
15	Effects of salt stress and rhizobial inoculation on growth and nitrogen fixation of three peanut cultivars. <i>Plant Biology</i> , 2013, 15, 415-421.	1.8	62
16	Metal tolerance of rhizobial strains isolated from nodules of herbaceous legumes (<i>Medicago</i> spp. and <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	2.1	59
17	Isolation and Characterization of Pb-Solubilizing Bacteria and Their Effects on Pb Uptake by <i>Brassica juncea</i> : Implications for Microbe-Assisted Phytoremediation. <i>Journal of Microbiology and Biotechnology</i> , 2018, 28, 1156-1167.	0.9	59
18	Spatial distribution and physiology of biological soil crusts from semi-arid central Spain are related to soil chemistry and shrub cover. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1894-1901.	4.2	58

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19	Degradation of transport-competent destabilized phaseolin with a signal for retention in the endoplasmic reticulum occurs in the vacuole. <i>Planta</i> , 1995, 196, 586-96.	1.6	56
20	Efficient rhizobacteria promote growth and alleviate NaCl-induced stress in the plant species <i>Sulla carnosa</i> . <i>Applied Soil Ecology</i> , 2019, 133, 104-113.	2.1	56
21	Uptake and effects of lead and zinc on alfalfa (<i>Medicago sativa</i> L.) seed germination and seedling growth: Role of plant growth promoting bacteria. <i>South African Journal of Botany</i> , 2019, 124, 573-582.	1.2	55
22	Overexpression of Flavodoxin in Bacteroids Induces Changes in Antioxidant Metabolism Leading to Delayed Senescence and Starch Accumulation in Alfalfa Root Nodules. <i>Plant Physiology</i> , 2009, 149, 1166-1178.	2.3	54
23	Purification of Ferredoxin-NADP+Reductase, Flavodoxin and Ferredoxin from a Single Batch of the Cyanobacterium <i>Anabaena</i> PCC 7119. <i>Preparative Biochemistry and Biotechnology</i> , 1991, 21, 191-204.	0.4	46
24	Flavodoxin overexpression reduces cadmium-induced damage in alfalfa root nodules. <i>Plant and Soil</i> , 2010, 326, 109-121.	1.8	45
25	Effect of fire severity and site slope on diversity and structure of the ectomycorrhizal fungal community associated with post-fire regenerated <i>Pinus pinaster</i> Ait. seedlings. <i>Forest Ecology and Management</i> , 2010, 260, 361-369.	1.4	45
26	Editorial: Protein Crops: Food and Feed for the Future. <i>Frontiers in Plant Science</i> , 2017, 8, 105.	1.7	40
27	Induced New Mutation of D1 Serine-268 in Soybean Photosynthetic Cell Cultures Produced Atrazine Resistance, Increased Stability of S2QB - and S3QB - States, and Increased Sensitivity to Light Stress. <i>Plant Physiology</i> , 1996, 112, 1499-1508.	2.3	38
28	Differential organ-specific response to salt stress and water deficit in nodulated bean (<i>Phaseolus</i>) Tj ETQq0 0 0 rgBTJ /Overlock 10 Tf 50 3	2.8	38
29	Colonisation of <i>Pinus halepensis</i> roots by <i>Pseudomonas fluorescens</i> and interaction with the ectomycorrhizal fungus <i>Suillus granulatus</i> . <i>FEMS Microbiology Ecology</i> , 2005, 51, 303-311.	1.3	36
30	Comparison of the kinetics of reduction and intramolecular electron transfer in electrostatic and covalent complexes of ferredoxin-NADP+ reductase and flavodoxin from <i>Anabaena</i> PCC 7119. <i>Archives of Biochemistry and Biophysics</i> , 1990, 281, 76-83.	1.4	35
31	Kinetics and thermodynamics of the binding of riboflavin, riboflavin 5â€²-phosphate and riboflavin 3â€²,5â€²-bisphosphate by apoflavodoxins. <i>Biochemical Journal</i> , 1996, 313, 855-861.	1.7	35
32	Aldehyde Oxidase (AO) in the Root Nodules of <i>Lupinus albus</i> and <i>Medicago truncatula</i> : Identification of AO in Meristematic and Infection Zones. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 405-413.	1.4	34
33	Diversity of Rhizobial Bacteria Isolated from Nodules of the Gypsophyte <i>Ononis tridentata</i> L. Growing in Spanish Soils. <i>Microbial Ecology</i> , 2008, 56, 223-233.	1.4	34
34	Genetic basis for denitrification in <i>Ensifer meliloti</i> . <i>BMC Microbiology</i> , 2014, 14, 142.	1.3	33
35	Nuclear DNA Endoreduplication and Expression of the Mitotic Inhibitor <i>Ccs52</i> Associated to Determinate and Lupinoid Nodule Organogenesis. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 173-180.	1.4	32
36	Genetic diversity and symbiotic efficiency of rhizobial isolates obtained from nodules of <i>Arachis hypogaea</i> in northwestern Morocco. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2911-2914.	4.2	32

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37	A salt stress-responsive cytokinin receptor homologue isolated from <i>Medicago sativa</i> nodules. <i>Planta</i> , 2008, 227, 769-779.	1.6	28
38	Conformation of cytoskeletal elements during the division of infected <i>Lupinus albus</i> L. nodule cells. <i>Journal of Experimental Botany</i> , 2007, 58, 2225-2236.	2.4	27
39	Effects of bean and wheat Î±-amylase inhibitors on Î±-amylase activity and growth of stored product insect pests*. <i>Entomologia Experimentalis Et Applicata</i> , 1995, 75, 237-244.	0.7	25
40	Nitrogen and Phosphorus Interplay in Lupin Root Nodules and Cluster Roots. <i>Frontiers in Plant Science</i> , 2021, 12, 644218.	1.7	23
41	Complex formation between ferredoxin and ferredoxin-NADP+ reductase from <i>Anabaena</i> PCC 7119: Cross-linking studies. <i>Archives of Biochemistry and Biophysics</i> , 1992, 294, 367-372.	1.4	22
42	Alfalfa nodules elicited by a flavodoxin-overexpressing <i>Ensifer meliloti</i> strain display nitrogen-fixing activity with enhanced tolerance to salinity stress. <i>Planta</i> , 2012, 236, 1687-1700.	1.6	22
43	Flavodoxin overexpression confers tolerance to oxidative stress in beneficial soil bacteria and improves survival in the presence of the herbicides paraquat and atrazine. <i>Journal of Applied Microbiology</i> , 2013, 115, 236-246.	1.4	22
44	Rhizobial diversity, symbiotic effectiveness and structure of nodules of <i>Vachellia macracantha</i> . <i>Soil Biology and Biochemistry</i> , 2016, 96, 39-54.	4.2	22
45	Forest Restoration in a Fog Oasis: Evidence Indicates Need for Cultural Awareness in Constructing the Reference. <i>PLoS ONE</i> , 2011, 6, e23004.	1.1	20
46	Characterization of the cross-linked complex formed between ferredoxin-NADP+ reductase and flavodoxin from <i>Anabaena</i> PCC 7119. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1059, 149-156.	0.5	18
47	Preparation and properties of a cross-linked complex between ferredoxin-NADP+ reductase and flavodoxin. <i>FEBS Journal</i> , 1989, 183, 539-544.	0.2	17
48	A cytokinin receptor homologue is induced during root nodule organogenesis and senescence in <i>Lupinus albus</i> L.. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 219-225.	2.8	16
49	Phenotypic and genotypic characterizations of rhizobia isolated from root nodules of peanut (<i>Arachis hypogaea</i>) grown in Moroccan soils. <i>Journal of Basic Microbiology</i> , 2009, 49, 415-425.	1.8	16
50	Mercury-Tolerant <i>Ensifer medicae</i> Strains Display High Mercuric Reductase Activity and a Protective Effect on Nitrogen Fixation in <i>Medicago truncatula</i> Nodules Under Mercury Stress. <i>Frontiers in Plant Science</i> , 2020, 11, 560768.	1.7	15
51	Increased tolerance to thermal inactivation of oxygen evolution in spinach Photosystem II membranes by substitution of the extrinsic 33-kDa protein by its homologue from a thermophilic cyanobacterium. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1554, 29-35.	0.5	14
52	Potassium content diminishes in infected cells of <i>Medicago truncatula</i> nodules due to the mislocation of channels MtAKT1 and MtSKOR/GORK. <i>Journal of Experimental Botany</i> , 2021, 72, 1336-1348.	2.4	14
53	Rapid screening of <i>Medicago truncatula</i> germplasm for mercury tolerance at the seedling stage. <i>Environmental and Experimental Botany</i> , 2013, 91, 90-96.	2.0	13
54	Arbuscular mycorrhizal fungus and rhizobacteria affect the physiology and performance of <i>Sulla coronariaplants</i> subjected to salt stress by mitigation of ionic imbalance. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 451-462.	1.1	13

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55	Nodulated White Lupin Plants Growing in Contaminated Soils Accumulate Unusually High Mercury Concentrations in Their Nodules, Roots and Especially Cluster Roots. <i>Horticulturae</i> , 2021, 7, 302.	1.2	13
56	Pigment Content of D1-D2-Cytochrome b559 Reaction Center Preparations after Removal of CP47 Contamination: An Immunological Study. <i>Biochemistry</i> , 1995, 34, 15214-15218.	1.2	11
57	Photochemical regeneration of NADPH using the enzyme ferredoxin-NADP+ reductase. <i>Enzyme and Microbial Technology</i> , 1992, 14, 8-12.	1.6	10
58	LASER FLASH-INDUCED PHOTOREDUCTION OF PHOTOSYNTHETIC FERREDOXINS AND FLAVODOXIN BY 5-DEAZARIBOFLAVIN AND BY A. <i>Photochemistry and Photobiology</i> , 1994, 60, 231-236.	1.3	10
59	Rhizospheric microbial community of <i>Caesalpinia spinosa</i> (Mol.) Kuntze in conserved and deforested zones of the Atiquipa fog forest in Peru. <i>Applied Soil Ecology</i> , 2017, 114, 132-141.	2.1	10
60	Genome-Wide Association Study Reveals Complex Genetic Architecture of Cadmium and Mercury Accumulation and Tolerance Traits in <i>Medicago truncatula</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 806949.	1.7	10
61	Adaptive Mechanisms Make Lupin a Choice Crop for Acidic Soils Affected by Aluminum Toxicity. <i>Frontiers in Plant Science</i> , 2021, 12, 810692.	1.7	10
62	Cadmium-Tolerant and -Sensitive Cultivars Identified by Screening of <i>Medicago truncatula</i> Germplasm Display Contrasting Responses to Cadmium Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 595001.	1.7	8
63	Phylogenetic Analyses of Rhizobia Isolated from Nodules of <i>Lupinus angustifolius</i> in Northern Tunisia Reveal <i>Devosia</i> sp. as a New Microsymbiont of Lupin Species. <i>Agronomy</i> , 2021, 11, 1510.	1.3	8
64	Transgenic <i>Medicago truncatula</i> Plants That Accumulate Proline Display Enhanced Tolerance to Cadmium Stress. <i>Frontiers in Plant Science</i> , 2022, 13, 829069.	1.7	8
65	Antioxidant Response and Calcium-Dependent Protein Kinases Involvement in Canola (<i>Brassica napus</i>) Tj ETQq1 1 Q.784314 rgBT /Over	1.3	8
66	Local adaptation optimizes photoprotection strategies in a Neotropical legume tree under drought stress. <i>Tree Physiology</i> , 2021, 41, 1641-1657.	1.4	5
67	Flavonoid Accumulation Varies in <i>Medicago truncatula</i> in Response to Mercury Stress. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5
68	Interaction of flavodoxin with cyanobacterial thylakoids. <i>Photosynthesis Research</i> , 1993, 38, 35-39.	1.6	4
69	Multiple roles for cytokinin receptors and cross-talk of signaling pathways. <i>Plant Signaling and Behavior</i> , 2008, 3, 791-794.	1.2	4
70	Effects of phosphate on the binding of FMN and riboflavin by apoflavodoxin from <i>Desulfovibrio vulgaris</i> (Hildenborough). <i>Biochemical Society Transactions</i> , 1992, 20, 83S-83S.	1.6	2
71	Characterization of Bradyrhizobia Isolated from Root Nodules of <i>Cytisus triflorus</i> in the Rif Occidental of Morocco. <i>Current Plant Science and Biotechnology in Agriculture</i> , 2008, , 155-155.	0.0	1
72	Overexpression of Flavodoxin in Alfalfa Nodules Leads to Delayed Senescence and High Starch Accumulation. <i>Current Plant Science and Biotechnology in Agriculture</i> , 2008, , 205-206.	0.0	0