Pedro M Aparicio-Tejo

List of Publications by Citations

47 papers	1,303 citations	24 h-index	35 g-index
48 ext. papers	1,476 ext. citations	4.9 avg, IF	4.02 L-index

#	Paper	IF	Citations
47	Nitrogen nutrition and antioxidant metabolism in ammonium-tolerant and -sensitive plants. *Physiologia Plantarum*, **2008**, 132, 359-69	4.6	70
46	Role of glutamate dehydrogenase and phosphoenolpyruvate carboxylase activity in ammonium nutrition tolerance in roots. *Plant Physiology and Biochemistry*, **2002**, 40, 969-976	5.4	63
45	Thirteen years of continued application of composted organic wastes in a vineyard modify soil quality characteristics. *Soil Biology and Biochemistry*, **2015**, 90, 241-254	7.5	62
44	Insights into the regulation of nitrogen fixation in pea nodules: lessons from drought, abscisic acid and increased photoassimilate availability. *Agronomy for Sustainable Development*, **2001**, 21, 607-613		51
43	Short-term ammonium supply stimulates glutamate dehydrogenase activity and alternative pathway respiration in roots of pea plants. *Journal of Plant Physiology*, **2002**, 159, 811-818	3.6	49
42	Foliar application of urea to Sauvignon Blanc and Merlot vines: doses and time of application. *Plant Growth Regulation*, **2012**, 67, 73-81	3.2	46
41	Intra-specific variation in pea responses to ammonium nutrition leads to different degrees of tolerance. *Environmental and Experimental Botany*, **2011**, 70, 233-243	5.9	46
40	Nitrogen fixation, stomatal response and transpiration in Medicago sativa, Trifolium repens and T. subterraneum under water stress and recovery. *Physiologia Plantarum*, **1980**, 48, 1-4	4.6	46
39	Function of antioxidant enzymes and metabolites during maturation of pea fruits. *Journal of Experimental Botany*, **2010**, 61, 87-97	7	45
38	Continuous CO2 enrichment leads to increased nodule biomass, carbon availability to nodules and activity of carbon-metabolising enzymes but does not enhance specific nitrogen fixation in pea. *Physiologia Plantarum*, **2001**, 113, 33-40	4.6	45
37	Effect of N-(n-butyl) thiophosphoric triamide on urea metabolism and the assimilation of ammonium by Triticum aestivum L.. *Plant Growth Regulation*, **2011**, 63, 73-79	3.2	44
36	Physiological consequences of continuous, sublethal imazethapyr supply to pea plants. *Journal of Plant Physiology*, **2000**, 157, 345-354	3.6	44
35	Imazethapyr, an inhibitor of the branched-chain amino acid biosynthesis, induces aerobic fermentation in pea plants. *Physiologia Plantarum*, **2002**, 114, 524-532	4.6	43
34	Quantitative proteomics reveals the importance of nitrogen source to control glucosinolate metabolism in Arabidopsis thaliana and Brassica oleracea. *Journal of Experimental Botany*, **2016**, 67, 3313-23	7	43
33	High irradiance increases NH(4)(+) tolerance in Pisum sativum: Higher carbon and energy availability improve ion balance but not N assimilation. *Journal of Plant Physiology*, **2011**, 168, 1009-15	3.6	42
32	Source of nitrogen nutrition (nitrogen fixation or nitrate assimilation) is a major factor involved in pea response to moderate water stress. *Journal of Plant Physiology*, **2000**, 157, 609-617	3.6	41
31	Changes in the C/N balance caused by increasing external ammonium concentrations are driven by carbon and energy availabilities during ammonium nutrition in pea plants: the key roles of asparagine synthetase and anaplerotic enzymes. *Physiologia Plantarum*, **2013**, 148, 522-37	4.6	39

30	Meat waste as feedstock for home composting: Effects on the process and quality of compost. *Waste Management*, **2016**, 56, 53-62	8.6	38
29	Depletion of the heaviest stable N isotope is associated with NH4+/NH3 toxicity in NH4+-fed plants. *BMC Plant Biology*, **2011**, 11, 83	5.3	35
28	High irradiance induces photoprotective mechanisms and a positive effect on NH4+ stress in Pisum sativum L. *Journal of Plant Physiology*, **2010**, 167, 1038-45	3.6	35
27	Two Fe-superoxide dismutase families respond differently to stress and senescence in legumes. *Journal of Plant Physiology*, **2012**, 169, 1253-60	3.6	30
26	Root-shoot interactions explain the reduction of leaf mineral content in Arabidopsis plants grown under elevated [CO2] conditions. *Physiologia Plantarum*, **2016**, 158, 65-79	4.6	30
25	Root and shoot performance of Arabidopsis thaliana exposed to elevated CO2: A physiologic, metabolic and transcriptomic response. *Journal of Plant Physiology*, **2015**, 189, 65-76	3.6	28
24	Pea plant responsiveness under elevated [CO2] is conditioned by the N source (N2 fixation versus NO3 fertilization). *Environmental and Experimental Botany*, **2013**, 95, 34-40	5.9	26
23	Short term physiological implications of NBPT application on the N metabolism of Pisum sativum and Spinacea oleracea. *Journal of Plant Physiology*, **2011**, 168, 329-36	3.6	24
22	Alternative pathway respiration is associated with ammonium ion sensitivity in spinach and pea plants. *Plant Growth Regulation*, **2002**, 37, 49-55	3.2	24
21	Isotopic discrimination as a tool for organic farming certification in sweet pepper. *Journal of Environmental Quality*, **2008**, 37, 182-5	3.4	21
20	Leaves play a central role in the adaptation of nitrogen and sulfur metabolism to ammonium nutrition in oilseed rape (Brassica napus). *BMC Plant Biology*, **2017**, 17, 157	5.3	18
19	3,4-Dimethylpyrazole phosphate and 2-(N-3,4-dimethyl-1H-pyrazol-1-yl) succinic acid isomeric mixture nitrification inhibitors: Quantification in plant tissues and toxicity assays. *Science of the Total Environment*, **2018**, 624, 1180-1186	10.2	18
18	Unravelling the mechanisms that improve photosynthetic performance of N2-fixing pea plants exposed to elevated [CO2]. *Environmental and Experimental Botany*, **2014**, 99, 167-174	5.9	18
17	Nitrogen isotope signature evidences ammonium deprotonation as a common transport mechanism for the AMT-Mep-Rh protein superfamily. *Science Advances*, **2018**, 4, eaar3599	14.3	17
16	Overexpression of a pine Dof transcription factor in hybrid poplars: A comparative study in trees growing under controlled and natural conditions. *PLoS ONE*, **2017**, 12, e0174748	3.7	16
15	Imazethapyr inhibition of acetolactate synthase in Rhizobium and its symbiosis with pea. *Pest Management Science*, **1998**, 52, 372-380		15
14	Leaf δ(15)N as a physiological indicator of the responsiveness of N2-fixing alfalfa plants to elevated [CO2], temperature and low water availability. *Frontiers in Plant Science*, **2015**, 6, 574	6.2	13
13	Effect of Low Nitrate Supply on Nitrogen Fixation in Alfalfa Root Nodules Induced by Rhizobium meliloti Strains with Varied Nitrate Reductase Activity. *Journal of Plant Physiology*, **1989**, 135, 207-211	3.6	13

12	Expression and localization of a Rhizobium-derived cambialistic superoxide dismutase in pea (Pisum sativum) nodules subjected to oxidative stress. *Molecular Plant-Microbe Interactions*, **2011**, 24, 1247-57	3.6	12
11	Solute Heterogeneity and Osmotic Adjustment in Different Leaf Structures of Semi-Leafless Pea (Pisum sativum L.) Subjected to Water Stress. *Plant Biology*, **2002**, 4, 558-566	3.7	9
10	Denitrification and Respiration in Rhizobium meliloti Bacteroids and Lucerne Nodules as Affected by Nitrate Supply. *Journal of Plant Physiology*, **1992**, 139, 373-378	3.6	8
9	Nitrate Metabolism in Alfalfa Root Nodules under Water Stress. *Journal of Experimental Botany*, **1986**, 37, 798-806	7	8
8	Unraveling the role of transient starch in the response of Arabidopsis to elevated CO2 under long-day conditions. *Environmental and Experimental Botany*, **2018**, 155, 158-164	5.9	8
7	The physiological implications of urease inhibitors on N metabolism during germination of Pisum sativum and Spinacea oleracea seeds. *Journal of Plant Physiology*, **2012**, 169, 673-81	3.6	6
6	Influence of stage of development in the efficiency of nitrogen fertilization on poplar. *Journal of Plant Nutrition*, **2016**, 39, 87-98	2.3	4
5	Effect of digested sewage sludge on the efficiency of N-fertilizer applied to barley. *Nutrient Cycling in Agroecosystems*, **1997**, 48, 241-246	3.3	4
4	Nitrate reduction in tendrils of semi-leafless pea. *Physiologia Plantarum*, **2001**, 111, 329-335	4.6	3
3	Measured and Calculated Transpiration inTrifolium repensunder Different Water Potentials. *Journal of Experimental Botany*, **1980**, 31, 839-843	7	2
2	Integration of a Communal Henhouse and Community Composter to Increase Motivation in Recycling Programs: Overview of a Three-Year Pilot Experience in Noﷺh (Spain). *Sustainability*, **2018**, 10, 690	3.6	1
1	Assessing the efficiency of dimethylpyrazole-based nitrification inhibitors under elevated CO2 conditions. *Geoderma*, **2021**, 400, 115160	6.7	0