

Concepcion Avila

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

2,752
citations

147801

31
h-index

206112

48
g-index

94
all docs

94
docs citations

94
times ranked

2855
citing authors

#	ARTICLE	IF	CITATIONS
1	Deregulation of phenylalanine biosynthesis evolved with the emergence of vascular plants. <i>Plant Physiology</i> , 2022, 188, 134-150.	4.8	9
2	Ammonium regulates the development of pine roots through hormonal crosstalk and differential expression of transcription factors in the apex. <i>Plant, Cell and Environment</i> , 2022, 45, 915-935.	5.7	11
3	Maritime Pine Genomics in Focus. <i>Compendium of Plant Genomes</i> , 2022, , 67-123.	0.5	4
4	Functional Genomics of Mediterranean Pines. <i>Compendium of Plant Genomes</i> , 2022, , 193-218.	0.5	3
5	A revised view on the evolution of glutamine synthetase isoenzymes in plants. <i>Plant Journal</i> , 2022, 110, 946-960.	5.7	10
6	Identification of Metabolic Pathways Differentially Regulated in Somatic and Zygotic Embryos of Maritime Pine. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	8
7	Special Issue Editorial: Plant Nitrogen Assimilation and Metabolism. <i>Plants</i> , 2021, 10, 1278.	3.5	3
8	The amino acid permease PpAAP1 mediates arginine transport in maritime pine. <i>Tree Physiology</i> , 2021, , .	3.1	2
9	Getting more bark for your buck: nitrogen economy of deciduous forest trees. <i>Journal of Experimental Botany</i> , 2020, 71, 4369-4372.	4.8	2
10	Enzymes Involved in the Biosynthesis of Arginine from Ornithine in Maritime Pine (<i>Pinus pinaster</i> Ait.). <i>Plants</i> , 2020, 9, 1271.	3.5	12
11	Structural and Functional Characteristics of Two Molecular Variants of the Nitrogen Sensor PII in Maritime Pine. <i>Frontiers in Plant Science</i> , 2020, 11, 823.	3.6	4
12	Transcriptional analysis of arginate dehydratase genes identifies a link between phenylalanine biosynthesis and lignin biosynthesis. <i>Journal of Experimental Botany</i> , 2020, 71, 3080-3093.	4.8	10
13	Inorganic Nitrogen Form Determines Nutrient Allocation and Metabolic Responses in Maritime Pine Seedlings. <i>Plants</i> , 2020, 9, 481.	3.5	10
14	Understanding plant nitrogen nutrition through a laboratory experiment. <i>Biochemistry and Molecular Biology Education</i> , 2019, 47, 450-458.	1.2	2
15	Resources for conifer functional genomics at the omics era. <i>Advances in Botanical Research</i> , 2019, 89, 39-76.	1.1	15
16	The role of arginine metabolic pathway during embryogenesis and germination in maritime pine (<i>Pinus</i>) Tj ETQq0 0.0 rGBT /Overlock 10	3.1	31
17	Analysis of the WUSCHEL-RELATED HOMEBOX gene family in <i>Pinus pinaster</i> : New insights into the gene family evolution. <i>Plant Physiology and Biochemistry</i> , 2018, 123, 304-318.	5.8	36
18	<i>PpNAC</i> , a main regulator of phenylalanine biosynthesis and utilization in maritime pine. <i>Plant Biotechnology Journal</i> , 2018, 16, 1094-1104.	8.3	29

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19	Root growth of somatic plants of hybrid <i>Pinus strobus</i> (L.) and <i>P. wallichiana</i> (A. B. Jacks.) is affected by the nitrogen composition of the somatic embryo germination medium. <i>Trees - Structure and Function</i> , 2018, 32, 371-381.	1.9	19
20	The arogenate dehydratase ADT2 is essential for seed development in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 2409-2420.	3.1	10
21	Nitrogen Metabolism and Biomass Production in Forest Trees. <i>Frontiers in Plant Science</i> , 2018, 9, 1449.	3.6	40
22	Glutamate synthases from conifers: gene structure and phylogenetic studies. <i>BMC Genomics</i> , 2018, 19, 65.	2.8	11
23	NAC Transcription Factors in Woody Plants. <i>Progress in Botany Fortschritte Der Botanik</i> , 2018, , 195-222.	0.3	3
24	Single-Copy Genes as Molecular Markers for Phylogenomic Studies in Seed Plants. <i>Genome Biology and Evolution</i> , 2017, 9, 1130-1147.	2.5	75
25	The gene expression landscape of pine seedling tissues. <i>Plant Journal</i> , 2017, 91, 1064-1087.	5.7	41
26	Elevated CO ₂ improved the growth of a double nitrate reductase defective mutant of <i>Arabidopsis thaliana</i> : The importance of maintaining a high energy status. <i>Environmental and Experimental Botany</i> , 2017, 140, 110-119.	4.2	5
27	Molecular fundamentals of nitrogen uptake and transport in trees. <i>Journal of Experimental Botany</i> , 2017, 68, 2489-2500.	4.8	44
28	Characterization of Three L-Asparaginases from Maritime Pine (<i>Pinus pinaster</i> Ait.). <i>Frontiers in Plant Science</i> , 2017, 8, 1075.	3.6	2
29	Overexpression of a pine Dof transcription factor in hybrid poplars: A comparative study in trees growing under controlled and natural conditions. <i>PLoS ONE</i> , 2017, 12, e0174748.	2.5	21
30	Nitrogen Economy and Nitrogen Environmental Interactions in Conifers. <i>Agronomy</i> , 2016, 6, 26.	3.0	15
31	Biosynthesis and Metabolic Fate of Phenylalanine in Conifers. <i>Frontiers in Plant Science</i> , 2016, 7, 1030.	3.6	98
32	Identification of a small protein domain present in all plant lineages that confers high prephenate dehydratase activity. <i>Plant Journal</i> , 2016, 87, 215-229.	5.7	33
33	Root-shoot interactions explain the reduction of leaf mineral content in <i>Arabidopsis</i> plants grown under elevated [CO ₂] conditions. <i>Physiologia Plantarum</i> , 2016, 158, 65-79.	5.2	42
34	Selection and testing of reference genes for accurate RT-qPCR in adult needles and seedlings of maritime pine. <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	1.6	18
35	Poplar trees for phytoremediation of high levels of nitrate and applications in bioenergy. <i>Plant Biotechnology Journal</i> , 2016, 14, 299-312.	8.3	45
36	Differential expression of cell wall related genes in the seeds of soft- and hard-seeded pomegranate genotypes. <i>Scientia Horticulturae</i> , 2016, 205, 7-16.	3.6	31

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37	Establishing gene models from the <i>Pinus pinaster</i> genome using gene capture and BAC sequencing. <i>BMC Genomics</i> , 2016, 17, 148.	2.8	10
38	Deciphering the molecular basis of ammonium uptake and transport in maritime pine. <i>Plant, Cell and Environment</i> , 2016, 39, 1669-1682.	5.7	23
39	Transcriptome-wide analysis supports environmental adaptations of two <i>Pinus pinaster</i> populations from contrasting habitats. <i>BMC Genomics</i> , 2015, 16, 909.	2.8	20
40	The NAC transcription factor family in maritime pine (<i>Pinus Pinaster</i>): molecular regulation of two genes involved in stress responses. <i>BMC Plant Biology</i> , 2015, 15, 254.	3.6	54
41	The overexpression of the pine transcription factor <i>PpDof5</i> in <i>Arabidopsis</i> leads to increased lignin content and affects carbon and nitrogen metabolism. <i>Physiologia Plantarum</i> , 2015, 155, 369-383.	5.2	18
42	Understanding developmental and adaptive cues in pine through metabolite profiling and co-expression network analysis. <i>Journal of Experimental Botany</i> , 2015, 66, 3113-3127.	4.8	34
43	Redundancy and metabolic function of the glutamine synthetase gene family in poplar. <i>BMC Plant Biology</i> , 2015, 15, 20.	3.6	29
44	Root and shoot performance of <i>Arabidopsis thaliana</i> exposed to elevated CO ₂ : A physiologic, metabolic and transcriptomic response. <i>Journal of Plant Physiology</i> , 2015, 189, 65-76.	3.5	37
45	Deciphering the Role of Aspartate and Prephenate Aminotransferase Activities in Plastid Nitrogen Metabolism. <i>Plant Physiology</i> , 2014, 164, 92-104.	4.8	60
46	Transcriptome analysis in maritime pine using laser capture microdissection and 454 pyrosequencing. <i>Tree Physiology</i> , 2014, 34, 1278-1288.	3.1	38
47	<i>De novo</i> assembly of maritime pine transcriptome: implications for forest breeding and biotechnology. <i>Plant Biotechnology Journal</i> , 2014, 12, 286-299.	8.3	115
48	Plastidic aspartate aminotransferases and the biosynthesis of essential amino acids in plants. <i>Journal of Experimental Botany</i> , 2014, 65, 5527-5534.	4.8	111
49	The family of Dof transcription factors in pine. <i>Trees - Structure and Function</i> , 2013, 27, 1547-1557.	1.9	11
50	Identification of genes differentially expressed in ectomycorrhizal roots during the <i>Pinus pinaster</i> – <i>Laccaria bicolor</i> interaction. <i>Planta</i> , 2013, 237, 1637-1650.	3.2	18
51	A <i>Mycob</i> transcription factor regulates genes of the phenylalanine pathway in maritime pine. <i>Plant Journal</i> , 2013, 74, 755-766.	5.7	64
52	Novel Insights into Regulation of Asparagine Synthetase in Conifers. <i>Frontiers in Plant Science</i> , 2012, 3, 100.	3.6	50
53	Gene expression profiling in the stem of young maritime pine trees: detection of ammonium stress-responsive genes in the apex. <i>Trees - Structure and Function</i> , 2012, 26, 609-619.	1.9	21
54	GENote v.1.2: A Web Tool Prototype for Annotation of Unfinished Sequences in Non-model Eukaryotes. <i>Lecture Notes in Computer Science</i> , 2012, , 66-71.	1.3	0

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55	A maritime pine antimicrobial peptide involved in ammonium nutrition. <i>Plant, Cell and Environment</i> , 2011, 34, 1443-1453.	5.7	21
56	The glutamine synthetase gene family in <i>Populus</i> . <i>BMC Plant Biology</i> , 2011, 11, 119.	3.6	63
57	EuroPineDB: a high-coverage web database for maritime pine transcriptome. <i>BMC Genomics</i> , 2011, 12, 366.	2.8	59
58	Identification of genes regulated by ammonium availability in the roots of maritime pine trees. <i>Amino Acids</i> , 2010, 39, 991-1001.	2.7	30
59	Ammonium tolerance and the regulation of two cytosolic glutamine synthetases in the roots of sorghum. <i>Functional Plant Biology</i> , 2010, 37, 55.	2.1	42
60	Differential regulation of two glutamine synthetase genes by a single Dof transcription factor. <i>Plant Journal</i> , 2008, 56, 73-85.	5.7	59
61	Ammonium assimilation and amino acid metabolism in conifers. <i>Journal of Experimental Botany</i> , 2007, 58, 2307-2318.	4.8	153
62	Expression patterns of two glutamine synthetase genes in zygotic and somatic pine embryos support specific roles in nitrogen metabolism during embryogenesis. <i>New Phytologist</i> , 2006, 169, 35-44.	7.3	39
63	Molecular characterization of a receptor-like protein kinase gene from pine (<i>Pinus sylvestris</i> L.). <i>Planta</i> , 2006, 224, 12-19.	3.2	10
64	Does Intermittent Hypoxia Increase Erythropoiesis in Professional Cyclists During a 3-Week Race?. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2005, 30, 61-73.	1.7	7
65	Up-Regulation and Localization of Asparagine Synthetase in Tomato Leaves Infected by the Bacterial Pathogen <i>Pseudomonas syringae</i> . <i>Plant and Cell Physiology</i> , 2004, 45, 770-780.	3.1	77
66	Increased sucrose level and altered nitrogen metabolism in <i>Arabidopsis thaliana</i> transgenic plants expressing antisense chloroplastic fructose-1,6-bisphosphatase. <i>Journal of Experimental Botany</i> , 2004, 55, 2495-2503.	4.8	52
67	Interaction of cis-acting elements in the expression of a gene encoding cytosolic glutamine synthetase in pine seedlings. <i>Physiologia Plantarum</i> , 2004, 121, 537-545.	5.2	5
68	Functional interactions between a glutamine synthetase promoter and MYB proteins. <i>Plant Journal</i> , 2004, 39, 513-526.	5.7	80
69	Molecular analysis of the 5'-upstream region of a gibberellin-inducible cytosolic glutamine synthetase gene (<i>GS1b</i>) expressed in pine vascular tissue. <i>Planta</i> , 2004, 218, 1036-1045.	3.2	32
70	Intensity of Exercise according to Topography in Professional Cyclists. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 1209-1215.	0.4	20
71	Functional Expression of Two Pine Glutamine Synthetase Genes in Bacteria Reveals that they Encode Cytosolic Holoenzymes with Different Molecular and Catalytic Properties. <i>Plant and Cell Physiology</i> , 2002, 43, 802-809.	3.1	29
72	Epidemiological and immunological aspects of human visceral leishmaniasis on Margarita Island, Venezuela. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2002, 97, 1079-1083.	1.6	13

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73	Urinary Levels of 8-Hydroxydeoxyguanosine as a Marker of Oxidative Damage in Road Cycling. <i>Free Radical Research</i> , 2002, 36, 247-253.	3.3	42
74	Molecular and enzymatic analysis of ammonium assimilation in woody plants. <i>Journal of Experimental Botany</i> , 2002, 53, 891-904.	4.8	105
75	Efficient preparation of maritime pine (<i>Pinus pinaster</i>) protoplasts suitable for transgene expression analysis. <i>Plant Molecular Biology Reporter</i> , 2001, 19, 361-366.	1.8	17
76	The promoter of a cytosolic glutamine synthetase gene from the conifer <i>Pinus sylvestris</i> is active in cotyledons of germinating seeds and light-regulated in transgenic <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2001, 112, 388-396.	5.2	9
77	Spatial and temporal expression of two cytosolic glutamine synthetase genes in Scots pine: functional implications on nitrogen metabolism during early stages of conifer development. <i>Plant Journal</i> , 2001, 25, 93-102.	5.7	7
78	Spatial and temporal expression of two cytosolic glutamine synthetase genes in Scots pine: functional implications on nitrogen metabolism during early stages of conifer development. <i>Plant Journal</i> , 2001, 25, 93-102.	5.7	57
79	Evaluation of the applicability of two different immunoassays for the detection of wheat gluten in baby foods. <i>Biochemistry and Molecular Biology Education</i> , 2000, 28, 261-264.	1.2	3
80	Evaluation of the applicability of two different immunoassays for the detection of wheat gluten in baby foods. <i>Biochemistry and Molecular Biology Education</i> , 2000, 28, 261-264.	1.2	2
81	An improved and rapid protocol for the isolation of poly(A) ⁺ -RNA from small samples of scots pine seedlings. <i>Plant Molecular Biology Reporter</i> , 2000, 18, 117-122.	1.8	2
82	Two genes encoding distinct cytosolic glutamine synthetases are closely linked in the pine genome. <i>FEBS Letters</i> , 2000, 477, 237-243.	2.8	32
83	Developing SSCP markers in two <i>Pinus</i> species. <i>Molecular Breeding</i> , 1999, 5, 21-31.	2.1	49
84	Effects of phosphinotricin treatment on glutamine synthetase isoforms in Scots pine seedlings. <i>Plant Physiology and Biochemistry</i> , 1998, 36, 857-863.	5.8	31
85	Cloning and sequence analysis of a cDNA for barley ferredoxin-dependent glutamate synthase and molecular analysis of photorespiratory mutants deficient in the enzyme. <i>Planta</i> , 1993, 189, 475-83.	3.2	42
86	Different Characteristics of the Two Glutamate Synthases in the Green Leaves of <i>Lycopersicon esculentum</i> . <i>Plant Physiology</i> , 1987, 85, 1036-1039.	4.8	46
87	Effect of light-dark transition on glutamine synthetase activity in tomato leaves. <i>Physiologia Plantarum</i> , 1986, 66, 648-652.	5.2	18
88	Immunochemical Comparison of Glutamine Synthetases from Some Solanaceae Plants. <i>Plant Physiology</i> , 1986, 82, 585-587.	4.8	6
89	Separation of two forms of glutamate synthase in leaves of tomato (<i>Lycopersicon esculentum</i>). <i>Biochemical and Biophysical Research Communications</i> , 1984, 122, 1125-1130.	2.1	20