

Rosa Morcuende

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

5,763
citations

201575

27
h-index

197736

49
g-index

53
all docs

53
docs citations

53
times ranked

6539
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-Wide Reprogramming of Primary and Secondary Metabolism, Protein Synthesis, Cellular Growth Processes, and the Regulatory Infrastructure of Arabidopsis in Response to Nitrogen. <i>Plant Physiology</i> , 2004, 136, 2483-2499.	2.3	926
2	Sugars and Circadian Regulation Make Major Contributions to the Global Regulation of Diurnal Gene Expression in Arabidopsis <i>Å</i> . <i>Plant Cell</i> , 2005, 17, 3257-3281.	3.1	608
3	Extension of the Visualization Tool MapMan to Allow Statistical Analysis of Arrays, Display of Coresponding Genes, and Comparison with Known Responses. <i>Plant Physiology</i> , 2005, 138, 1195-1204.	2.3	576
4	Steps towards an integrated view of nitrogen metabolism. <i>Journal of Experimental Botany</i> , 2002, 53, 959-970.	2.4	549
5	Genome-wide reprogramming of metabolism and regulatory networks of Arabidopsis in response to phosphorus. <i>Plant, Cell and Environment</i> , 2007, 30, 85-112.	2.8	533
6	Sugar-induced increases in trehalose 6-phosphate are correlated with redox activation of ADPglucose pyrophosphorylase and higher rates of starch synthesis in Arabidopsis thaliana. <i>Biochemical Journal</i> , 2006, 397, 139-148.	1.7	518
7	Temporal responses of transcripts, enzyme activities and metabolites after adding sucrose to carbon-deprived Arabidopsis seedlings. <i>Plant Journal</i> , 2007, 49, 463-491.	2.8	272
8	Sucrose-feeding leads to increased rates of nitrate assimilation, increased rates of α -oxoglutarate synthesis, and increased synthesis of a wide spectrum of amino acids in tobacco leaves. <i>Planta</i> , 1998, 206, 394-409.	1.6	152
9	Tobacco mutants with a decreased number of functional nia genes compensate by modifying the diurnal regulation of transcription, post-translational modification and turnover of nitrate reductase. <i>Planta</i> , 1997, 203, 304-319.	1.6	151
10	Does ear C sink strength contribute to overcoming photosynthetic acclimation of wheat plants exposed to elevated CO ₂ ?. <i>Journal of Experimental Botany</i> , 2011, 62, 3957-3969.	2.4	146
11	Effect of sulfur availability on the integrity of amino acid biosynthesis in plants. <i>Amino Acids</i> , 2006, 30, 173-183.	1.2	110
12	Transcriptome and metabolome analysis of plant sulfate starvation and resupply provides novel information on transcriptional regulation of metabolism associated with sulfur, nitrogen and phosphorus nutritional responses in Arabidopsis. <i>Frontiers in Plant Science</i> , 2014, 5, 805.	1.7	96
13	The Combination of Trichoderma harzianum and Chemical Fertilization Leads to the Deregulation of Phytohormone Networking, Preventing the Adaptive Responses of Tomato Plants to Salt Stress. <i>Frontiers in Plant Science</i> , 2017, 8, 294.	1.7	86
14	Gas exchange acclimation to elevated CO ₂ in upper-sunlit and lower-shaded canopy leaves in relation to nitrogen acquisition and partitioning in wheat grown in field chambers. <i>Environmental and Experimental Botany</i> , 2007, 59, 371-380.	2.0	76
15	Quantitative RT-PCR Platform to Measure Transcript Levels of C and N Metabolism-Related Genes in Durum Wheat: Transcript Profiles in Elevated [CO ₂] and High Temperature at Different Levels of N Supply. <i>Plant and Cell Physiology</i> , 2015, 56, 1556-1573.	1.5	76
16	Diurnal changes of Rubisco in response to elevated CO ₂ , temperature and nitrogen in wheat grown under temperature gradient tunnels. <i>Environmental and Experimental Botany</i> , 2005, 53, 13-27.	2.0	73
17	Metabolic and Transcriptional Analysis of Durum Wheat Responses to Elevated CO ₂ at Low and High Nitrate Supply. <i>Plant and Cell Physiology</i> , 2016, 57, 2133-2146.	1.5	67
18	Regulation of nitrate reductase expression in leaves by nitrate and nitrogen metabolism is completely overridden when sugars fall below a critical level. <i>Plant, Cell and Environment</i> , 2000, 23, 863-871.	2.8	62

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19	Acclimation to future atmospheric CO ₂ levels increases photochemical efficiency and mitigates photochemistry inhibition by warm temperatures in wheat under field chambers. <i>Physiologia Plantarum</i> , 2009, 137, 86-100.	2.6	59
20	Interactive effects of elevated CO ₂ , temperature and nitrogen on photosynthesis of wheat grown under temperature gradient tunnels. <i>Environmental and Experimental Botany</i> , 2005, 54, 49-59.	2.0	50
21	Acclimatory responses of stomatal conductance and photosynthesis to elevated CO ₂ and temperature in wheat crops grown at varying levels of N supply in a Mediterranean environment. <i>Plant Science</i> , 2005, 169, 908-916.	1.7	48
22	Nitrate is a negative signal for fructan synthesis, and the fructosyltransferase-inducing trehalose inhibits nitrogen and carbon assimilation in excised barley leaves. <i>New Phytologist</i> , 2004, 161, 749-759.	3.5	42
23	Future CO ₂ concentrations, though not warmer temperatures, enhance wheat photosynthesis temperature responses. <i>Physiologia Plantarum</i> , 2008, 132, 102-112.	2.6	41
24	Temporal kinetics of the transcriptional response to carbon depletion and sucrose readdition in <i>Arabidopsis</i> seedlings. <i>Plant, Cell and Environment</i> , 2016, 39, 768-786.	2.8	37
25	Down-regulation of Rubisco activity under combined increases of CO ₂ and temperature minimized by changes in Rubisco <i>k_{cat}</i> in wheat. <i>Plant Growth Regulation</i> , 2011, 65, 439-447.	1.8	34
26	Elevated CO ₂ and temperature differentially affect photosynthesis and resource allocation in flag and penultimate leaves of wheat. <i>Photosynthetica</i> , 2007, 45, 9-17.	0.9	30
27	Involvement of nitrogen and cytokinins in photosynthetic acclimation to elevated CO ₂ of spring wheat. <i>Journal of Plant Physiology</i> , 2013, 170, 1337-1343.	1.6	29
28	Physiological and yield responses of recombinant chromosome substitution lines of barley to terminal drought in a Mediterranean-type environment. <i>Annals of Applied Biology</i> , 2012, 160, 157-167.	1.3	28
29	De Novo Transcriptome Analysis of Durum Wheat Flag Leaves Provides New Insights Into the Regulatory Response to Elevated CO ₂ and High Temperature. <i>Frontiers in Plant Science</i> , 2019, 10, 1605.	1.7	28
30	Nitrate supply and plant development influence nitrogen uptake and allocation under elevated CO ₂ in durum wheat grown hydroponically. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	27
31	New insights into the impacts of elevated CO ₂ , nitrogen, and temperature levels on the regulation of C and N metabolism in durum wheat using network analysis. <i>New Biotechnology</i> , 2018, 40, 192-199.	2.4	24
32	Contrasting responses of photosynthesis and carbon metabolism to low temperatures in tall fescue and clovers. <i>Physiologia Plantarum</i> , 2001, 112, 478-486.	2.6	21
33	Short-term feedback inhibition of photosynthesis in wheat leaves supplied with sucrose and glycerol at two temperatures. <i>Photosynthetica</i> , 1997, 33, 179-188.	0.9	19
34	Changes in Leaf Morphology and Composition with Future Increases in CO ₂ and Temperature Revisited: Wheat in Field Chambers. <i>Journal of Plant Growth Regulation</i> , 2009, 28, 349-357.	2.8	19
35	Long- and short-term responses of leaf carbohydrate levels and photosynthesis to decreased sink demand in soybean. <i>Plant, Cell and Environment</i> , 1996, 19, 976-982.	2.8	15
36	Acclimation to elevated CO ₂ is improved by low Rubisco and carbohydrate content, and enhanced Rubisco transcripts in the G132 barley mutant. <i>Environmental and Experimental Botany</i> , 2017, 137, 36-48.	2.0	14

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37	C and N metabolism in barley leaves and peduncles modulates responsiveness to changing CO ₂ . <i>Journal of Experimental Botany</i> , 2019, 70, 599-611.	2.4	14
38	Improved responses to elevated CO ₂ in durum wheat at a low nitrate supply associated with the upregulation of photosynthetic genes and the activation of nitrate assimilation. <i>Plant Science</i> , 2017, 260, 119-128.	1.7	13
39	Genotypic Variability on Grain Yield and Grain Nutritional Quality Characteristics of Wheat Grown under Elevated CO ₂ and High Temperature. <i>Plants</i> , 2021, 10, 1043.	1.6	13
40	Screening for Higher Grain Yield and Biomass among Sixty Bread Wheat Genotypes Grown under Elevated CO ₂ and High-Temperature Conditions. <i>Plants</i> , 2021, 10, 1596.	1.6	13
41	Functional and transcriptional characterization of a barley mutant with impaired photosynthesis. <i>Plant Science</i> , 2016, 244, 19-30.	1.7	12
42	Differential Flag Leaf and Ear Photosynthetic Performance Under Elevated (CO ₂) Conditions During Grain Filling Period in Durum Wheat. <i>Frontiers in Plant Science</i> , 2020, 11, 587958.	1.7	11
43	Fructan synthesis is inhibited by phosphate in warm-grown, but not in cold-treated, excised barley leaves. <i>New Phytologist</i> , 2005, 168, 567-574.	3.5	10
44	Source-Sink Dynamics in Field-Grown Durum Wheat Under Contrasting Nitrogen Supplies: Key Role of Non-Foliar Organs During Grain Filling. <i>Frontiers in Plant Science</i> , 2022, 13, 869680.	1.7	9
45	Photosynthesis-dependent/independent control of stomatal responses to CO ₂ in mutant barley with surplus electron transport capacity and reduced SLAH3 anion channel transcript. <i>Plant Science</i> , 2015, 239, 15-25.	1.7	8
46	Long- and short-term effects of decreased sink demand on carbohydrate levels and photosynthesis in wheat leaves. <i>Plant, Cell and Environment</i> , 1996, 19, 1203-1209.	2.8	7
47	Theoretical and Experimental Considerations for a Rapid and High Throughput Measurement of Catalase In Vitro. <i>Antioxidants</i> , 2022, 11, 21.	2.2	4
48	Surfing the Hyperbola Equations of the Steady-State Farquhar-von Caemmerer-Berry C ₃ Leaf Photosynthesis Model: What Can a Theoretical Analysis of Their Oblique Asymptotes and Transition Points Tell Us?. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 3.	0.9	2
49	Impact of Water Deficit on Primary Metabolism at the Whole Plant Level in Bread Wheat Grown under Elevated CO ₂ and High Temperature at Different Developmental Stages. , 0, , .		1
50	Investigating novel potential regulators and signalling components in phosphate stress responses of <i>Arabidopsis thaliana</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008, 150, S193.	0.8	0
51	Modification of Photosynthesis Temperature Response by Long-Term Growth in Elevated CO ₂ and Temperature in Wheat Field Crops. , 2008, , 1383-1386.		0