

Salvador Nogues

List of Publications by Year in descending order

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97
papers

6,714
citations

61984

43
h-index

62596

80
g-index

97
all docs

97
docs citations

97
times ranked

6062
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-photosynthetic fractionation of stable carbon isotopes between plant organs—a widespread phenomenon. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1381-1391.	1.5	390
2	A role for brassinosteroids in the regulation of photosynthesis in <i>Cucumis sativus</i> . <i>Journal of Experimental Botany</i> , 2004, 55, 1135-1143.	4.8	318
3	Ultraviolet-B Radiation Effects on Water Relations, Leaf Development, and Photosynthesis in Droughted Pea Plants. <i>Plant Physiology</i> , 1998, 117, 173-181.	4.8	271
4	Effects of drought on photosynthesis in Mediterranean plants grown under enhanced UV-B radiation. <i>Journal of Experimental Botany</i> , 2000, 51, 1309-1317.	4.8	258
5	Brassinosteroids Alleviate Heat-Induced Inhibition of Photosynthesis by Increasing Carboxylation Efficiency and Enhancing Antioxidant Systems in <i>Lycopersicon esculentum</i> . <i>Journal of Plant Growth Regulation</i> , 2008, 27, 49-57.	5.1	255
6	Metabolic Origin of Carbon Isotope Composition of Leaf Dark-Respired CO ₂ in French Bean. <i>Plant Physiology</i> , 2003, 131, 237-244.	4.8	248
7	Plant physiology and proteomics reveals the leaf response to drought in alfalfa (<i>Medicago sativa</i> L.). <i>Journal of Experimental Botany</i> , 2011, 62, 111-123.	4.8	227
8	Ozone depletion and increased UV-B radiation: is there a real threat to photosynthesis?. <i>Journal of Experimental Botany</i> , 1998, 49, 1775-1788.	4.8	221
9	Carbon isotope fractionation during dark respiration and photorespiration in C ₃ plants. <i>Phytochemistry Reviews</i> , 2003, 2, 145-161.	6.5	217
10	Effects of drought on photosynthesis in Mediterranean plants grown under enhanced UV-B radiation. <i>Journal of Experimental Botany</i> , 2000, 51, 1309-1317.	4.8	213
11	Review article. Ozone depletion and increased UV-B radiation: is there a real threat to photosynthesis?. <i>Journal of Experimental Botany</i> , 1998, 49, 1775-1788.	4.8	202
12	The Photosynthetic Role of Ears in C ₃ Cereals: Metabolism, Water Use Efficiency and Contribution to Grain Yield. <i>Critical Reviews in Plant Sciences</i> , 2007, 26, 1-16.	5.7	196
13	Ear of durum wheat under water stress: water relations and photosynthetic metabolism. <i>Planta</i> , 2005, 221, 446-458.	3.2	177
14	<i>In folio</i> isotopic tracing demonstrates that nitrogen assimilation into glutamate is mostly independent from current CO ₂ assimilation in illuminated leaves of <i>Brassica napus</i> . <i>New Phytologist</i> , 2010, 185, 988-999.	7.3	152
15	NDVI as a potential tool for predicting biomass, plant nitrogen content and growth in wheat genotypes subjected to different water and nitrogen conditions. <i>Cereal Research Communications</i> , 2011, 39, 147-159.	1.6	147
16	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.	4.8	146
17	The relationship between CO ₂ assimilation, photosynthetic electron transport and water-water cycle in chill-exposed cucumber leaves under low light and subsequent recovery. <i>Plant, Cell and Environment</i> , 2004, 27, 1503-1514.	5.7	137
18	Diurnal variations of photosynthesis and dew absorption by leaves in two evergreen shrubs growing in Mediterranean field conditions. <i>New Phytologist</i> , 1999, 144, 109-119.	7.3	132

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19	Characterization of Stomatal Closure Caused by Ultraviolet-B Radiation. <i>Plant Physiology</i> , 1999, 121, 489-496.	4.8	123
20	Evaluation of the role of damage to photosystem II in the inhibition of CO ₂ assimilation in pea leaves on exposure to UV-B radiation. <i>Plant, Cell and Environment</i> , 1995, 18, 781-787.	5.7	121
21	The combined effect of constant water deficit and nitrogen supply on WUE, NUE and $\delta^{13}C$ in durum wheat potted plants. <i>Annals of Applied Biology</i> , 2007, 151, 277-289.	2.5	116
22	Respiratory Carbon Metabolism following Illumination in Intact French Bean Leaves Using ¹³ C/ ¹² C Isotope Labeling. <i>Plant Physiology</i> , 2004, 136, 3245-3254.	4.8	96
23	Limitations to photosynthesis in tomato leaves induced by Fusarium wilt. <i>New Phytologist</i> , 2002, 154, 461-470.	7.3	90
24	Chill-Induced Decrease in Capacity of RuBP Carboxylation and Associated H ₂ O ₂ Accumulation in Cucumber Leaves are Alleviated by Grafting onto Figleaf Gourd. <i>Annals of Botany</i> , 2007, 100, 839-848.	2.9	90
25	Genotypic Variation of Rubisco Expression, Photosynthetic Electron Flow and Antioxidant Metabolism in the Chloroplasts of Chill-exposed Cucumber Plants. <i>Plant and Cell Physiology</i> , 2006, 47, 192-199.	3.1	87
26	Effects of cucumber mosaic virus infection on electron transport and antioxidant system in chloroplasts and mitochondria of cucumber and tomato leaves. <i>Physiologia Plantarum</i> , 2009, 135, 246-257.	5.2	82
27	EMS mutagenesis in mature seed-derived rice calli as a new method for rapidly obtaining TILLING mutant populations. <i>Plant Methods</i> , 2014, 10, 5.	4.3	82
28	Preparation of starch and soluble sugars of plant material for the analysis of carbon isotope composition: a comparison of methods. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2476-2488.	1.5	76
29	Water and nitrogen conditions affect the relationships of $\delta^{13}C$ and $\delta^{18}O$ to gas exchange and growth in durum wheat. <i>Journal of Experimental Botany</i> , 2009, 60, 1633-1644.	4.8	72
30	A thirty percent increase in UV-B has no impact on photosynthesis in well-watered and droughted pea plants in the field. <i>Global Change Biology</i> , 1999, 5, 235-244.	9.5	71
31	Photosynthetic down-regulation under elevated CO ₂ exposure can be prevented by nitrogen supply in nodulated alfalfa. <i>Journal of Plant Physiology</i> , 2010, 167, 1558-1565.	3.5	71
32	Dual $\delta^{13}C$ / $\delta^{18}O$ response to water and nitrogen availability and its relationship with yield in field-grown durum wheat. <i>Plant, Cell and Environment</i> , 2011, 34, 418-433.	5.7	65
33	Salinity and Water Stress Effects on Biomass Production in Different <i>Arundo donax</i> L. Clones. <i>Bioenergy Research</i> , 2015, 8, 1461-1479.	3.9	61
34	Efficient knockout of phytoene desaturase gene using CRISPR/Cas9 in melon. <i>Scientific Reports</i> , 2019, 9, 17077.	3.3	61
35	Does higher yield potential improve barley performance in Mediterranean conditions?. <i>Field Crops Research</i> , 2005, 91, 149-160.	5.1	60
36	Leaf carbon management in slow-growing plants exposed to elevated CO ₂ . <i>Global Change Biology</i> , 2009, 15, 97-109.	9.5	60

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37	Effects of enhanced UV-B radiation on pea (<i>Pisum sativum</i> L.) grown under field conditions in the UK. <i>Global Change Biology</i> , 1996, 2, 325-334.	9.5	57
38	Photosynthetic capacity of field-grown durum wheat under different N availabilities: A comparative study from leaf to canopy. <i>Environmental and Experimental Botany</i> , 2009, 67, 145-152.	4.2	56
39	On the $^{13}\text{C}/^{12}\text{C}$ isotopic signal of day and night respiration at the mesocosm level. <i>Plant, Cell and Environment</i> , 2010, 33, 900-913.	5.7	56
40	Nitrogen source and water regime effects on barley photosynthesis and isotope signature. <i>Functional Plant Biology</i> , 2004, 31, 995.	2.1	54
41	Autotrophic and heterotrophic contributions to short-term soil CO_2 efflux following simulated summer precipitation pulses in a Mediterranean dehesa. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	51
42	Carbon partitioning in N_2 fixing <i>Medicago sativa</i> plants exposed to different CO_2 and temperature conditions. <i>Functional Plant Biology</i> , 2008, 35, 306.	2.1	50
43	Photosynthesis and photoinhibition. , 1997, , 95-112.		50
44	Short-term dynamics of isotopic composition of leaf-respired CO_2 upon darkening: measurements and implications. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2428-2438.	1.5	47
45	Triticum, wheat and triticale yield components under multi-local mediterranean drought conditions. <i>Field Crops Research</i> , 2010, 116, 68-74.	5.1	46
46	An increase in water deficit has no impact on the photosynthetic capacity of field-grown Mediterranean plants. <i>Functional Plant Biology</i> , 2002, 29, 621.	2.1	44
47	Concerted changes in N and C primary metabolism in alfalfa (<i>Medicago sativa</i>) under water restriction. <i>Journal of Experimental Botany</i> , 2013, 64, 1-17.	4.8	41
48	Measurement of ^{13}C and ^{15}N isotope labeling by gas chromatography/combustion/isotope ratio mass spectrometry to study amino acid fluxes in a plant-microbe symbiotic association. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 599-607.	1.5	39
49	Metabolic origin of ^{15}N values in nitrogenous compounds from <i>Brassica napus</i> L. leaves. <i>Plant, Cell and Environment</i> , 2013, 36, 128-137.	5.7	39
50	The mechanism(s) involved in the photoprotection of PSII at elevated CO_2 in nodulated alfalfa plants. <i>Environmental and Experimental Botany</i> , 2008, 64, 295-306.	4.2	38
51	Elevated CO_2 and water-availability effect on gas exchange and nodule development in N_2 -fixing alfalfa plants. <i>Environmental and Experimental Botany</i> , 2009, 65, 18-26.	4.2	37
52	$^{13}\text{C}/^{12}\text{C}$ isotope labelling to study leaf carbon respiration and allocation in twigs of field-grown beech trees. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 219-226.	1.5	35
53	Rhizodeposition of organic carbon by plants with contrasting traits for resource acquisition: responses to different fertility regimes. <i>Plant and Soil</i> , 2015, 394, 391-406.	3.7	29
54	Daily time course of whole-shoot gas exchange rates in two drought-exposed Mediterranean shrubs. <i>Tree Physiology</i> , 2001, 21, 51-58.	3.1	26

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55	Carbohydrate and nitrogen stores in <i>Festuca paniculata</i> under mowing explain dominance in subalpine grasslands. <i>Plant Biology</i> , 2013, 15, 395-404.	3.8	26
56	Assessing the stable carbon isotopic composition of intercellular CO ₂ in a CAM plant using gas chromatography-combustion-isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1017-1022.	1.5	25
57	Carbon and nitrogen partitioning during the post-anthesis period is conditioned by N fertilisation and sink strength in three cereals. <i>Plant Biology</i> , 2013, 15, 135-143.	3.8	25
58	The response of <i>Arundo donax</i> L. (C 3) and <i>Panicum virgatum</i> (C 4) to different stresses. <i>Biomass and Bioenergy</i> , 2016, 85, 335-345.	5.7	24
59	Maintenance of C sinks sustains enhanced C assimilation during long-term exposure to elevated [CO ₂] in Mojave Desert shrubs. <i>Oecologia</i> , 2011, 167, 339-354.	2.0	23
60	Antimitotic and hormone effects on green double haploid plant production through anther culture of Mediterranean japonica rice. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 134, 205-215.	2.3	23
61	¹³ C/ ¹² C isotope labeling to study carbon partitioning and dark respiration in cereals subjected to water stress. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2819-2828.	1.5	22
62	Carbon and nitrogen allocation and partitioning in traditional and modern wheat genotypes under pre-industrial and future CO ₂ conditions. <i>Plant Biology</i> , 2015, 17, 647-659.	3.8	22
63	Respiratory carbon metabolism in the high mountain plant species <i>Ranunculus glacialis</i> . <i>Journal of Experimental Botany</i> , 2006, 57, 3837-3845.	4.8	21
64	¹³ C and ¹⁵ N allocations of two alpine species from early and late snowmelt locations reflect their different growth strategies. <i>Journal of Experimental Botany</i> , 2009, 60, 2725-2735.	4.8	21
65	<i>Vaccinium myrtillus</i> stands show similar structure and functioning under different scenarios of coexistence at the Pyrenean treeline. <i>Plant Ecology</i> , 2016, 217, 1115-1128.	1.6	21
66	A Mediterranean japonica rice (<i>Oryza sativa</i>) cultivar improvement through anther culture. <i>Euphytica</i> , 2014, 195, 31-44.	1.2	20
67	Chromosome doubling methods in doubled haploid and haploid inducer-mediated genome-editing systems in major crops. <i>Plant Cell Reports</i> , 2021, 40, 255-270.	5.6	20
68	Leaf ¹⁵ N as a physiological indicator of the responsiveness of N ₂ -fixing alfalfa plants to elevated [CO ₂], temperature and low water availability. <i>Frontiers in Plant Science</i> , 2015, 6, 574.	3.6	19
69	Effect of shoot removal on remobilization of carbon and nitrogen during regrowth of nitrogen-fixing alfalfa. <i>Physiologia Plantarum</i> , 2015, 153, 91-104.	5.2	18
70	Chromosome doubling of androgenic haploid plantlets of rice (<i>Oryza sativa</i>) using antimetabolic compounds. <i>Plant Breeding</i> , 2020, 139, 754-761.	1.9	17
71	On the relationship between C and N fixation and amino acid synthesis in nodulated alfalfa (<i>Medicago</i>) Tj ETQq1 1 0,784314 rgBT /Over	2.1	16
72	Do metabolic changes underpin physiological responses to water limitation in alfalfa (<i>Medicago</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	5.6	15

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73	Opportunities and Challenges in Doubled Haploids and Haploid Inducer-Mediated Genome-Editing Systems in Cucurbits. <i>Agronomy</i> , 2020, 10, 1441.	3.0	15
74	Four years of experimental warming do not modify the interaction between subalpine shrub species. <i>Oecologia</i> , 2017, 183, 1167-1181.	2.0	13
75	In situ Parthenogenetic Doubled Haploid Production in Melon "Piel de Sapo" for Breeding Purposes. <i>Frontiers in Plant Science</i> , 2020, 11, 378.	3.6	13
76	The effects of depleted, current and elevated growth [CO ₂] in wheat are modulated by water availability. <i>Environmental and Experimental Botany</i> , 2015, 112, 55-66.	4.2	11
77	Effects of long-term exposure to elevated CO ₂ conditions in slow-growing plants using a ¹² C-enriched CO ₂ labelling technique. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 282-290.	1.5	10
78	Short-term carbon allocation dynamics in subalpine dwarf shrubs and their responses to experimental summer drought. <i>Environmental and Experimental Botany</i> , 2017, 141, 92-102.	4.2	10
79	Morpho-Physiological Responses of Alamo Switchgrass During Germination and Early Seedling Stage Under Salinity or Water Stress Conditions. <i>Bioenergy Research</i> , 2018, 11, 677-688.	3.9	9
80	No preferential carbon-allocation to storage over growth in clipped birch and oak saplings. <i>Tree Physiology</i> , 2020, 40, 621-636.	3.1	9
81	An improved anther culture procedure for obtaining new commercial Mediterranean temperate japonica rice (<i>Oryza sativa</i>) genotypes. <i>Plant Biotechnology</i> , 2018, 35, 161-166.	1.0	8
82	Phytohormone Profiling Method for Rice: Effects of GA20ox Mutation on the Gibberellin Content of Japonica Rice Varieties. <i>Frontiers in Plant Science</i> , 2019, 10, 733.	3.6	8
83	Two distinct plant respiratory physiotypes might exist which correspond to fast-growing and slow-growing species. <i>Journal of Plant Physiology</i> , 2014, 171, 1157-1163.	3.5	7
84	<i>Arundo donax</i> L.: How High Photosynthetic Capacity Is Maintained under Water Scarcity Conditions. <i>Agronomy</i> , 2021, 11, 1089.	3.0	6
85	Giant Reed. , 2018, , 107-151.		5
86	Colchicine and osmotic stress for improving anther culture efficiency on long grain temperate and tropical japonica rice genotypes. <i>Plant Biotechnology</i> , 2019, 36, 269-273.	1.0	5
87	Effects of pre-industrial, current and future [CO ₂] in traditional and modern wheat genotypes. <i>Journal of Plant Physiology</i> , 2014, 171, 1654-1663.	3.5	4
88	Nuclei Release Methods Comparison for Fresh Leaves of Rice (<i>Oryza sativa</i>) for Efficient High Throughput Flow Cytometry Ploidy Studies. <i>Journal of Plant Studies</i> , 2019, 8, 31.	0.3	4
89	Doubled Haploid Parthenogenetic Production of Melon "Piel de Sapo"™. <i>Methods in Molecular Biology</i> , 2021, 2289, 87-95.	0.9	3
90	Potential of Local Bio-Geoengineering to Mitigate Dangerous Temperature Increases in a Global Warming Scenario. <i>Journal of Earth Science & Climatic Change</i> , 2013, 04, .	0.2	3

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91	Potential Effects of UV-B on Photosynthesis and Photosynthetic Productivity of Higher Plants. NATO Science Series Series IV, Earth and Environmental Sciences, 2006, , 137-146.	0.3	2
92	Anther Culture and Chromosome Doubling in Mediterranean Japonica Rice. Methods in Molecular Biology, 2021, 2287, 333-341.	0.9	2
93	Limited carbon inputs from plants into soils in arid ecosystems: a study of changes in the $\delta^{13}C$ in the soil-root interface. Plant and Soil, 2019, 443, 307-322.	3.7	1
94	Characterization of Different <i>Arundo donax</i> L. Clones from the Mediterranean Region. Agronomy, 2021, 11, 1347.	3.0	1
95	Water Stress Effects on Photosynthesis in Mediterranean Shrubs: A Field Study. , 1995, , 3553-3556.		1
96	Session 10 Photosynthesis. Biologia Plantarum, 1994, 36, S133-S173.	1.9	0
97	Relationship Between Photosynthesis and Respiration in Leaves Using $^{13}C/^{12}C$ Isotope Labelling. Advanced Topics in Science and Technology in China, 2013, , 301-303.	0.1	0