

Iker Aranjuelo

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6334515/iker-aranjuelo-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,104
citations

26
h-index

41
g-index

95
ext. papers

2,615
ext. citations

4.8
avg, IF

4.9
L-index

#	Paper	IF	Citations
93	Estimating peanut and soybean photosynthetic traits using leaf spectral reflectance and advance regression models.. <i>Planta</i> , 2022 , 255, 93	4.7	1
92	Could ammonium nutrition increase plant C-sink strength under elevated CO ₂ conditions?. <i>Plant Science</i> , 2022 , 320, 111277	5.3	0
91	Additive effects of heatwave and water stresses on soybean seed yield is caused by impaired carbon assimilation at pod formation but not at flowering. <i>Plant Science</i> , 2022 , 321, 111320	5.3	0
90	Overexpression of thioredoxin m in chloroplasts alters carbon and nitrogen partitioning in tobacco. <i>Journal of Experimental Botany</i> , 2021 , 72, 4949-4964	7	0
89	Climate Change, Crop Yields, and Grain Quality of C Cereals: A Meta-Analysis of [CO ₂], Temperature, and Drought Effects. <i>Plants</i> , 2021 , 10,	4.5	9
88	Soybean Inoculated With One Bradyrhizobium Strain Isolated at Elevated [CO ₂] Show an Impaired C and N Metabolism When Grown at Ambient [CO ₂]. <i>Frontiers in Plant Science</i> , 2021 , 12, 656961	6.2	1
87	Foliar heavy metals and stable isotope ($\delta^{13}C$, $\delta^{15}N$) profiles as reliable urban pollution biomonitoring tools. <i>Urban Forestry and Urban Greening</i> , 2021 , 57, 126918	5.4	5
86	Carbohydrate and Amino Acid Dynamics during Grain Growth in Four Temperate Cereals under Well-Watered and Water-Limited Regimes. <i>Agronomy</i> , 2021 , 11, 1516	3.6	2
85	Short-Term Exposure to High Atmospheric Vapor Pressure Deficit (VPD) Severely Impacts Durum Wheat Carbon and Nitrogen Metabolism in the Absence of Edaphic Water Stress. <i>Plants</i> , 2021 , 10,	4.5	1
84	Assessing the evolution of wheat grain traits during the last 166 years using archived samples. <i>Scientific Reports</i> , 2020 , 10, 21828	4.9	4
83	Effects of elevated [CO ₂] on photosynthesis and seed yield parameters in two soybean genotypes with contrasting water use efficiency. <i>Environmental and Experimental Botany</i> , 2020 , 178, 104154	5.9	10
82	Photosynthesis in a Changing Global Climate: Scaling Up and Scaling Down in Crops. <i>Frontiers in Plant Science</i> , 2020 , 11, 882	6.2	25
81	Photosynthetic Metabolism under Stressful Growth Conditions as a Bases for Crop Breeding and Yield Improvement. <i>Plants</i> , 2020 , 9,	4.5	47
80	Vitamin E in legume nodules: Occurrence and antioxidant function. <i>Phytochemistry</i> , 2020 , 172, 112261	4	5
79	Elevated CO ₂ has concurrent effects on leaf and grain metabolism but minimal effects on yield in wheat. <i>Journal of Experimental Botany</i> , 2020 , 71, 5990-6003	7	15
78	Durum Wheat Grain Yield and Quality under Low and High Nitrogen Conditions: Insights into Natural Variation in Low- and High-Yielding Genotypes. <i>Plants</i> , 2020 , 9,	4.5	6
77	Estimating Wheat Grain Yield Using Sentinel-2 Imagery and Exploring Topographic Features and Rainfall Effects on Wheat Performance in Navarre, Spain. <i>Remote Sensing</i> , 2020 , 12, 2278	5	5

76	Differential Flag Leaf and Ear Photosynthetic Performance Under Elevated (CO) Conditions During Grain Filling Period in Durum Wheat. <i>Frontiers in Plant Science</i> , 2020 , 11, 587958	6.2	6
75	Effect of Water Stress during Grain Filling on Yield, Quality and Physiological Traits of Illpa and Rainbow Quinoa (Willd.) Cultivars. <i>Plants</i> , 2019 , 8,	4.5	8
74	Differential Regulation of Stomatal Conductance as a Strategy to Cope With Ammonium Fertilizer Under Ambient Versus Elevated CO. <i>Frontiers in Plant Science</i> , 2019 , 10, 597	6.2	15
73	Impact of elevated CO ₂ and drought on yield and quality traits of a historical (Blanqueta) and a modern (Sula) durum wheat. <i>Journal of Cereal Science</i> , 2019 , 87, 194-201	3.8	12
72	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	7	6
71	Exploring Agronomic and Physiological Traits Associated With the Differences in Productivity Between Triticale and Bread Wheat in Mediterranean Environments. <i>Frontiers in Plant Science</i> , 2019 , 10, 404	6.2	6
70	Functional analysis of the taproot and fibrous roots of Medicago truncatula: Sucrose and proline catabolism primary response to water deficit. <i>Agricultural Water Management</i> , 2019 , 216, 473-483	5.9	7
69	Limited carbon inputs from plants into soils in arid ecosystems: a study of changes in the δ ¹³ C in the soil-root interface. <i>Plant and Soil</i> , 2019 , 443, 307-322	4.2	1
68	Metabolic Effects of Elevated CO on Wheat Grain Development and Composition. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 8441-8451	5.7	15
67	Physiological, Hormonal and Metabolic Responses of two Alfalfa Cultivars with Contrasting Responses to Drought. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10
66	Changes in environmental CO ₂ concentration can modify Rhizobium-soybean specificity and condition plant fitness and productivity. <i>Environmental and Experimental Botany</i> , 2019 , 162, 133-143	5.9	6
65	Do metabolic changes underpin physiological responses to water limitation in alfalfa (Medicago sativa) plants during a regrowth period?. <i>Agricultural Water Management</i> , 2019 , 212, 1-11	5.9	7
64	Overexpression of thioredoxin m in tobacco chloroplasts inhibits the protein kinase STN7 and alters photosynthetic performance. <i>Journal of Experimental Botany</i> , 2019 , 70, 1005-1016	7	18
63	Drought tolerance response of high-yielding soybean varieties to mild drought: physiological and photochemical adjustments. <i>Physiologia Plantarum</i> , 2019 , 166, 88-104	4.6	23
62	Assessment of Metal Immission in Urban Environments Using Elemental Concentrations and Zinc Isotope Signatures in Leaves of Nerium oleander. <i>Environmental Science & Technology</i> , 2018 , 52, 2071-2080	10.3	12
61	Is vegetative area, photosynthesis, or grape C uploading involved in the climate change-related grape sugar/anthocyanin decoupling in Tempranillo?. <i>Photosynthesis Research</i> , 2018 , 138, 115-128	3.7	10
60	Physiological performance of transplastomic tobacco plants overexpressing aquaporin AQP1 in chloroplast membranes. <i>Journal of Experimental Botany</i> , 2018 , 69, 3661-3673	7	9
59	Unraveling the role of transient starch in the response of Arabidopsis to elevated CO ₂ under long-day conditions. <i>Environmental and Experimental Botany</i> , 2018 , 155, 158-164	5.9	8

58	P Deficiency: A Major Limiting Factor for Rhizobial Symbiosis 2017 , 21-39		3
57	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	5.9	4
56	Responsiveness of Durum Wheat to Mycorrhizal Inoculation Under Different Environmental Scenarios. <i>Journal of Plant Growth Regulation</i> , 2017 , 36, 855-867	4.7	5
55	Genetic and isotope ratio mass spectrometric evidence for the occurrence of starch degradation and cycling in illuminated <i>Arabidopsis</i> leaves. <i>PLoS ONE</i> , 2017 , 12, e0171245	3.7	15
54	Nutritional quality and yield of onion as affected by different application methods and doses of humic substances. <i>Journal of Food Composition and Analysis</i> , 2016 , 51, 37-44	4.1	26
53	Influence of stage of development in the efficiency of nitrogen fertilization on poplar. <i>Journal of Plant Nutrition</i> , 2016 , 39, 87-98	2.3	4
52	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	4.6	30
51	Wheat ear carbon assimilation and nitrogen remobilization contribute significantly to grain yield. <i>Journal of Integrative Plant Biology</i> , 2016 , 58, 914-926	8.3	23
50	Durum wheat quality traits affected by mycorrhizal inoculation, water availability and atmospheric CO ₂ concentration. <i>Crop and Pasture Science</i> , 2016 , 67, 147	2.2	22
49	From vineyards to controlled environments in grapevine research: investigating responses to climate change scenarios using fruit-bearing cuttings. <i>Theoretical and Experimental Plant Physiology</i> , 2016 , 28, 171-191	2.4	11
48	How Does High Temperature Affect Legume Nodule Symbiotic Activity? 2015 , 67-87		2
47	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	3.6	28
46	Rising temperature may negate the stimulatory effect of rising CO on growth and physiology of Wollemi pine (<i>Wollemia nobilis</i>). <i>Functional Plant Biology</i> , 2015 , 42, 836-850	2.7	14
45	Effect of shoot removal on remobilization of carbon and nitrogen during regrowth of nitrogen-fixing alfalfa. <i>Physiologia Plantarum</i> , 2015 , 153, 91-104	4.6	13
44	Differential CO ₂ effect on primary carbon metabolism of flag leaves in durum wheat (<i>Triticum durum</i> Desf.). <i>Plant, Cell and Environment</i> , 2015 , 38, 2780-94	8.4	20
43	Nitrogen assimilation and transpiration: key processes conditioning responsiveness of wheat to elevated [CO ₂] and temperature. <i>Physiologia Plantarum</i> , 2015 , 155, 338-54	4.6	30
42	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	6.2	13
41	Plastidic phosphoglucose isomerase is an important determinant of starch accumulation in mesophyll cells, growth, photosynthetic capacity, and biosynthesis of plastidic cytokinins in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2015 , 10, e0119641	3.7	19

40	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	4.2	23
39	Alteration by thioredoxin f over-expression of primary carbon metabolism and its response to elevated CO ₂ in tobacco (<i>Nicotiana tabacum</i> L.). <i>Environmental and Experimental Botany</i> , 2015 , 118, 40-48	5.9	9
38	A novel method for determination of the (15) N isotopic composition of Rubisco in wheat plants exposed to elevated atmospheric carbon dioxide. <i>Physiologia Plantarum</i> , 2015 , 153, 195-203	4.6	3
37	Carbon balance, partitioning and photosynthetic acclimation in fruit-bearing grapevine (<i>Vitis vinifera</i> L. cv. Tempranillo) grown under simulated climate change (elevated CO ₂ , elevated temperature and moderate drought) scenarios in temperature gradient greenhouses. <i>Journal of Plant Physiology</i> , 2015 , 174, 97-109	3.6	59
36	On the relationship between C and N fixation and amino acid synthesis in nodulated alfalfa (<i>Medicago sativa</i>). <i>Functional Plant Biology</i> , 2014 , 41, 331-341	2.7	15
35	Uranium perturbs signaling and iron uptake response in <i>Arabidopsis thaliana</i> roots. <i>Metallomics</i> , 2014 , 6, 809-21	4.5	26
34	Photosynthetic down-regulation in N ₂ -fixing alfalfa under elevated CO ₂ alters rubisco content and decreases nodule metabolism via nitrogenase and tricarboxylic acid cycle. <i>Acta Physiologiae Plantarum</i> , 2014 , 36, 2607-2617	2.6	4
33	Harvest index combined with impaired N availability constrains the responsiveness of durum wheat to elevated CO concentration and terminal water stress. <i>Functional Plant Biology</i> , 2014 , 41, 1138-1147	2.7	12
32	Nodule performance within a changing environmental context. <i>Journal of Plant Physiology</i> , 2014 , 171, 1076-90	3.6	58
31	Unravelling the mechanisms that improve photosynthetic performance of N ₂ -fixing pea plants exposed to elevated [CO ₂]. <i>Environmental and Experimental Botany</i> , 2014 , 99, 167-174	5.9	18
30	Two distinct plant respiratory physiotypes might exist which correspond to fast-growing and slow-growing species. <i>Journal of Plant Physiology</i> , 2014 , 171, 1157-63	3.6	5
29	Glutathione and transpiration as key factors conditioning oxidative stress in <i>Arabidopsis thaliana</i> exposed to uranium. <i>Planta</i> , 2014 , 239, 817-30	4.7	23
28	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, 135-43	3.7	16
27	Photosynthetic and molecular markers of CO ₂ -mediated photosynthetic downregulation in nodulated alfalfa. <i>Journal of Integrative Plant Biology</i> , 2013 , 55, 721-34	8.3	15
26	Variation in Rubisco content and activity under variable climatic factors. <i>Photosynthesis Research</i> , 2013 , 117, 73-90	3.7	100
25	Pea plant responsiveness under elevated [CO ₂] is conditioned by the N source (N ₂ fixation versus NO ₃ ⁻ fertilization). <i>Environmental and Experimental Botany</i> , 2013 , 95, 34-40	5.9	26
24	Carbohydrate and nitrogen stores in <i>Festuca paniculata</i> under mowing explain dominance in subalpine grasslands. <i>Plant Biology</i> , 2013 , 15, 395-404	3.7	23
23	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, 885-97	7	35

22	Harvest index, a parameter conditioning responsiveness of wheat plants to elevated CO ₂ . <i>Journal of Experimental Botany</i> , 2013 , 64, 1879-92	7	86
21	Future Environmental Conditions will Limit Yield in N ₂ Fixing Alfalfa 2012 , 363-382		1
20	Photosynthesis, N(2) fixation and taproot reserves during the cutting regrowth cycle of alfalfa under elevated CO(2) and temperature. <i>Journal of Plant Physiology</i> , 2011 , 168, 2007-14	3.6	25
19	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, 339-54	2.9	20
18	Effect of elevated CO ₂ on carbon partitioning in young <i>Quercus ilex</i> L. during resprouting. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 1527-35	2.2	5
17	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	2.2	34
16	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, 111-23	7	184
15	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, 3957-69	7	116
14	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, 1558-65	3.6	65
13	Tritordeum, wheat and triticale yield components under multi-local mediterranean drought conditions. <i>Field Crops Research</i> , 2010 , 116, 68-74	5.5	37
12	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	5.9	31
11	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, 282-90	2.2	6
10	(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, 2819-28	2.2	18
9	Leaf carbon management in slow-growing plants exposed to elevated CO ₂ . <i>Global Change Biology</i> , 2009 , 15, 97-109	11.4	54
8	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	5.9	32
7	Carbon partitioning in N fixing <i>Medicago sativa</i> plants exposed to different CO and temperature conditions. <i>Functional Plant Biology</i> , 2008 , 35, 306-317	2.7	39
6	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, 1017-22	2.2	22
5	Effect of elevated CO ₂ , temperature and limited water supply on antioxidant status during regrowth of nodulated alfalfa. <i>Physiologia Plantarum</i> , 2007 , 130, 33-45	4.6	46

4	Effect of elevated temperature and water availability on CO ₂ exchange and nitrogen fixation of nodulated alfalfa plants. <i>Environmental and Experimental Botany</i> , 2007 , 59, 99-108	5.9	52
3	Response of nodulated alfalfa to water supply, temperature and elevated CO ₂ : productivity and water relations. <i>Environmental and Experimental Botany</i> , 2006 , 55, 130-141	5.9	42
2	The response of nodulated alfalfa to water supply, temperature and elevated CO ₂ : photosynthetic downregulation. <i>Physiologia Plantarum</i> , 2005 , 123, 348-358	4.6	73
1	The use of temperature gradient tunnels for studying the combined effect of CO ₂ , temperature and water availability in N ₂ fixing alfalfa plants. <i>Annals of Applied Biology</i> , 2005 , 146, 51-60	2.6	45