

Ismael Aranda

List of Publications by Year in descending order

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91
papers

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94269

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#	ARTICLE	IF	CITATIONS
1	The greater seedling high-light tolerance of <i>Quercus robur</i> over <i>Fagus sylvatica</i> is linked to a greater physiological plasticity. <i>Trees - Structure and Function</i> , 2002, 16, 395-403.	0.9	244
2	Phenotypic plasticity and local adaptation in leaf ecophysiological traits of 13 contrasting cork oak populations under different water availabilities. <i>Tree Physiology</i> , 2010, 30, 618-627.	1.4	160
3	Effects of the interaction between drought and shade on water relations, gas exchange and morphological traits in cork oak (<i>Quercus suber</i> L.) seedlings. <i>Forest Ecology and Management</i> , 2005, 210, 117-129.	1.4	137
4	Water relations and gas exchange in <i>Fagus sylvatica</i> L. and <i>Quercus petraea</i> (Mattuschka) Liebl. in a mixed stand at their southern limit of distribution in Europe. <i>Trees - Structure and Function</i> , 2000, 14, 344-352.	0.9	119
5	Metabolomics demonstrates divergent responses of two <i>Eucalyptus</i> species to water stress. <i>Metabolomics</i> , 2012, 8, 186-200.	1.4	113
6	Population differences in juvenile survival under increasing drought are mediated by seed size in cork oak (<i>Quercus suber</i> L.). <i>Forest Ecology and Management</i> , 2009, 257, 1676-1683.	1.4	109
7	Intra-specific variability in biomass partitioning and carbon isotopic discrimination under moderate drought stress in seedlings from four <i>Pinus pinaster</i> populations. <i>Tree Genetics and Genomes</i> , 2010, 6, 169-178.	0.6	106
8	Responses to water stress of gas exchange and metabolites in <i>Eucalyptus</i> and <i>Acacia</i> spp.. <i>Plant, Cell and Environment</i> , 2011, 34, 1609-1629.	2.8	105
9	Shade tolerance, photoinhibition sensitivity and phenotypic plasticity of <i>Ilex aquifolium</i> in continental Mediterranean sites. <i>Tree Physiology</i> , 2005, 25, 1041-1052.	1.4	101
10	Water-use efficiency in cork oak (<i>Quercus suber</i>) is modified by the interaction of water and light availabilities. <i>Tree Physiology</i> , 2007, 27, 671-677.	1.4	94
11	Effects of drought on mesophyll conductance and photosynthetic limitations at different tree canopy layers. <i>Plant, Cell and Environment</i> , 2013, 36, 1961-1980.	2.8	94
12	Anatomical basis of the change in leaf mass per area and nitrogen investment with relative irradiance within the canopy of eight temperate tree species. <i>Acta Oecologica</i> , 2004, 25, 187-195.	0.5	88
13	Elucidating the role of genetic drift and natural selection in cork oak differentiation regarding drought tolerance. <i>Molecular Ecology</i> , 2009, 18, 3803-3815.	2.0	83
14	Variation in photosynthetic performance and hydraulic architecture across European beech (<i>Fagus sylvatica</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 35, 34-46.	1.4	83
15	Species-specific water use by forest tree species: From the tree to the stand. <i>Agricultural Water Management</i> , 2012, 114, 67-77.	2.4	80
16	Epigenetic Variability in the Genetically Uniform Forest Tree Species <i>Pinus pinea</i> L. <i>PLoS ONE</i> , 2014, 9, e103145.	1.1	77
17	Seasonal changes in apparent hydraulic conductance and their implications for water use of European beech (<i>Fagus sylvatica</i> L.) and sessile oak [<i>Quercus petraea</i> (Matt.) Liebl] in South Europe. <i>Plant Ecology</i> , 2005, 179, 155-167.	0.7	75
18	Drought-induced shoot dieback starts with massive root xylem embolism and variable depletion of nonstructural carbohydrates in seedlings of two tree species. <i>New Phytologist</i> , 2017, 213, 597-610.	3.5	67

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19	Seasonal water relations of three broadleaved species (<i>Fagus sylvatica</i> L., <i>Quercus petraea</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 Peninsula. <i>Forest Ecology and Management</i> , 1996, 84, 219-229.	1.4	66
20	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	3.7	65
21	Genetic control of functional traits related to photosynthesis and water use efficiency in <i>Pinus pinaster</i> Ait. drought response: integration of genome annotation, allele association and QTL detection for candidate gene identification. <i>BMC Genomics</i> , 2014, 15, 464.	1.2	64
22	Extreme droughts affecting Mediterranean tree speciesâ€™ growth and water-use efficiency: the importance of timing. <i>Tree Physiology</i> , 2018, 38, 1127-1137.	1.4	62
23	Variation in functional leaf traits among beech provenances during a Spanish summer reflects the differences in their origin. <i>Tree Genetics and Genomes</i> , 2012, 8, 1111-1121.	0.6	59
24	Factors affecting cork oak growth under dry conditions: local adaptation and contrasting additive genetic variance within populations. <i>Tree Genetics and Genomes</i> , 2011, 7, 285-295.	0.6	57
25	Differences in the leaf functional traits of six beech (<i>Fagus sylvatica</i> L.) populations are reflected in their response to water limitation. <i>Environmental and Experimental Botany</i> , 2013, 87, 110-119.	2.0	56
26	Flushing phenology and fitness of European beech (<i>Fagus sylvatica</i> L.) provenances from a trial in La Rioja, Spain, segregate according to their climate of origin. <i>Agricultural and Forest Meteorology</i> , 2013, 180, 76-85.	1.9	55
27	Thermal acclimation of leaf dark respiration of beech seedlings experiencing summer drought in high and low light environments. <i>Tree Physiology</i> , 2010, 30, 214-224.	1.4	49
28	Non-targeted Metabolomic Profile of <i>Fagus Sylvatica</i> L. Leaves using Liquid Chromatography with Mass Spectrometry and Gas Chromatography with Mass Spectrometry. <i>Phytochemical Analysis</i> , 2015, 26, 171-182.	1.2	47
29	Organ-specific metabolic responses to drought in <i>Pinus pinaster</i> Ait.. <i>Plant Physiology and Biochemistry</i> , 2016, 102, 17-26.	2.8	47
30	Correlated evolution of morphology, gas exchange, growth rates and hydraulics as a response to precipitation and temperature regimes in oaks (<i>Quercus</i>). <i>New Phytologist</i> , 2020, 227, 794-809.	3.5	45
31	Xylem and Leaf Functional Adjustments to Drought in <i>Pinus sylvestris</i> and <i>Quercus pyrenaica</i> at Their Elevational Boundary. <i>Frontiers in Plant Science</i> , 2017, 8, 1200.	1.7	44
32	Summer drought impedes beech seedling performance more in a sub-Mediterranean forest understory than in small gaps. <i>Tree Physiology</i> , 2008, 29, 249-259.	1.4	43
33	Mini-cuttings: an effective technique for the propagation of <i>Pinus pinaster</i> Ait.. <i>New Forests</i> , 2011, 41, 399-412.	0.7	43
34	Functional and genetic characterization of gas exchange and intrinsic water use efficiency in a full-sib family of <i>Pinus pinaster</i> Ait. in response to drought. <i>Tree Physiology</i> , 2012, 32, 94-103.	1.4	43
35	Effects of thinning in a <i>Pinus sylvestris</i> L. stand on foliar water relations of <i>Fagus sylvatica</i> L. seedlings planted within the pinewood. <i>Trees - Structure and Function</i> , 2001, 15, 358-364.	0.9	40
36	Light response in seedlings of a temperate (<i>Quercus petraea</i>) and a sub-Mediterranean species (<i>Quercus pyrenaica</i>): contrasting ecological strategies as potential keys to regeneration performance in mixed marginal populations. <i>Plant Ecology</i> , 2008, 195, 273-285.	0.7	40

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37	Functional performance of oak seedlings naturally regenerated across microhabitats of distinct overstorey canopy closure. <i>New Forests</i> , 2010, 39, 245-259.	0.7	39
38	Population variation and natural selection on leaf traits in cork oak throughout its distribution range. <i>Acta Oecologica</i> , 2014, 58, 49-56.	0.5	39
39	Leaf metabolic response to water deficit in <i>Pinus pinaster</i> Ait. relies upon ontogeny and genotype. <i>Environmental and Experimental Botany</i> , 2017, 140, 41-55.	2.0	39
40	Intraspecific variation in growth and allocation patterns in seedlings of <i>Pinus pinaster</i> Ait. submitted to contrasting watering regimes: can water availability explain regional variation?. <i>Annals of Forest Science</i> , 2010, 67, 505-504.	0.8	38
41	Inter-clonal variation in functional traits in response to drought for a genetically homogeneous Mediterranean conifer. <i>Environmental and Experimental Botany</i> , 2011, 70, 104-109.	2.0	37
42	Influence of environmental conditions on germinant survival and diversity of Scots pine (<i>Pinus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54.	1.1	34
43	Dehydrins in maritime pine (<i>Pinus pinaster</i>) and their expression related to drought stress response. <i>Tree Genetics and Genomes</i> , 2012, 8, 957-973.	0.6	34
44	Developmental constraints limit the response of Canary Island pine seedlings to combined shade and drought. <i>Forest Ecology and Management</i> , 2006, 231, 164-168.	1.4	33
45	Improvement of growth conditions and gas exchange of <i>Fagus sylvatica</i> L. seedlings planted below a recently thinned <i>Pinus sylvestris</i> L. stand. <i>Trees - Structure and Function</i> , 2004, 18, 211-220.	0.9	32
46	Differential impact of the most extreme drought event over the last half century on growth and sap flow in two coexisting Mediterranean trees. <i>Plant Ecology</i> , 2014, 215, 703-719.	0.7	32
47	Mediterranean trees coping with severe drought: Avoidance might not be safe. <i>Environmental and Experimental Botany</i> , 2018, 155, 529-540.	2.0	31
48	Ability to avoid water stress in seedlings of two oak species is lower in a dense forest understory than in a medium canopy gap. <i>Forest Ecology and Management</i> , 2008, 255, 421-430.	1.4	30
49	Intra-population variability in the drought response of a beech (<i>Fagus sylvatica</i> L.) population in the southwest of Europe. <i>Tree Physiology</i> , 2017, 37, 938-949.	1.4	30
50	Assessment of salt tolerance in <i>Populus alba</i> clones using chlorophyll fluorescence. <i>Photosynthetica</i> , 2006, 44, 169-173.	0.9	29
51	Water relations of cork oak (<i>Quercus suber</i> L.) seedlings in response to shading and moderate drought. <i>Annals of Forest Science</i> , 2005, 62, 377-384.	0.8	28
52	Effects of relative irradiance on the leaf structure of <i>Fagus sylvatica</i> L. seedlings planted in the understory of a <i>Pinus sylvestris</i> L. stand after thinning. <i>Annals of Forest Science</i> , 2001, 58, 673-680.	0.8	27
53	Physiological responses of <i>Fagus sylvatica</i> L. seedlings under <i>Pinus sylvestris</i> L. and <i>Quercus pyrenaica</i> Willd. overstories. <i>Forest Ecology and Management</i> , 2002, 162, 153-164.	1.4	24
54	Exploring the impact of neutral evolution on intrapopulation genetic differentiation in functional traits in a long-lived plant. <i>Tree Genetics and Genomes</i> , 2014, 10, 1181-1190.	0.6	24

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55	Understanding the importance of intrapopulation functional variability and phenotypic plasticity in <i>Quercus suber</i> . <i>Tree Genetics and Genomes</i> , 2015, 11, 1.	0.6	24
56	Influence of overstorey density on understory light, soil moisture, and survival of two underplanted oak species in a Mediterranean montane Scots pine forest. <i>Investigacion Agraria Sistemas Y Recursos Forestales</i> , 2008, 17, 31.	0.4	24
57	Drought Response in Forest Trees: From the Species to the Gene. , 2012, , 293-333.		23
58	Acclimation to light in seedlings of <i>Quercus petraea</i> (Mattuschka) Liebl. and <i>Quercus pyrenaica</i> Willd. planted along a forest-edge gradient. <i>Trees - Structure and Function</i> , 2006, 21, 45-54.	0.9	22
59	Ecophysiological and metabolic response patterns to drought under controlled condition in open-pollinated maternal families from a <i>Fagus sylvatica</i> L. population. <i>Environmental and Experimental Botany</i> , 2018, 150, 209-221.	2.0	20
60	Light acclimation at the end of the growing season in two broadleaved oak species. <i>Photosynthetica</i> , 2011, 49, 581-592.	0.9	19
61	Seedlings from marginal and core populations of European beech (<i>Fagus sylvatica</i> L.) respond differently to imposed drought and shade. <i>Trees - Structure and Function</i> , 2021, 35, 53-67.	0.9	19
62	Towards a statistically robust determination of minimum water potential and hydraulic risk in plants. <i>New Phytologist</i> , 2021, 232, 404-417.	3.5	19
63	Specific leaf metabolic changes that underlie adjustment of osmotic potential in response to drought by four <i>Quercus</i> species. <i>Tree Physiology</i> , 2021, 41, 728-743.	1.4	16
64	Interactive responses of <i>Quercus suber</i> L. seedlings to light and mild water stress: effects on morphology and gas exchange traits. <i>Annals of Forest Science</i> , 2008, 65, 611-611.	0.8	15
65	Summer field performance of <i>Quercus petraea</i> (Matt.) Liebl and <i>Quercus pyrenaica</i> Willd seedlings, planted in three sites with contrasting canopy cover. <i>New Forests</i> , 2006, 33, 67-80.	0.7	14
66	Limited capacity to cope with excessive light in the open and with seasonal drought in the shade in Mediterranean <i>Ilex aquifolium</i> populations. <i>Trees - Structure and Function</i> , 2008, 22, 375-384.	0.9	14
67	Natural selection on cork oak: allele frequency reveals divergent selection in cork oak populations along a temperature cline. <i>Evolutionary Ecology</i> , 2010, 24, 1031-1044.	0.5	14
68	<i>Fagus sylvatica</i> L. provenances maintain different leaf metabolic profiles and functional response. <i>Acta Oecologica</i> , 2017, 82, 1-9.	0.5	14
69	The relevance of seed size in modulating leaf physiology and early plant performance in two tree species. <i>Trees - Structure and Function</i> , 2011, 25, 873-884.	0.9	13
70	Annotated genetic linkage maps of <i>Pinus pinaster</i> Ait. from a Central Spain population using microsatellite and gene based markers. <i>BMC Genomics</i> , 2012, 13, 527.	1.2	13
71	Nucleotide polymorphisms in a pine ortholog of the <i>Arabidopsis</i> degrading enzyme cellulase KORRIGAN are associated with early growth performance in <i>Pinus pinaster</i> . <i>Tree Physiology</i> , 2015, 35, 1000-1006.	1.4	13
72	Inter-genotypic differences in drought tolerance of maritime pine are modified by elevated [CO ₂]. <i>Annals of Botany</i> , 2017, 120, 591-602.	1.4	13

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73	Metabolic response to elevated CO ₂ levels in <i>Pinus pinaster</i> Aiton needles in an ontogenetic and genotypic-dependent way. <i>Plant Physiology and Biochemistry</i> , 2018, 132, 202-212.	2.8	13
74	Leaf ecophysiological and metabolic response in <i>Quercus pyrenaica</i> Willd seedlings to moderate drought under enriched CO ₂ atmosphere. <i>Journal of Plant Physiology</i> , 2020, 244, 153083.	1.6	13
75	Contrasting species decline but high sensitivity to increasing water stress on a mixed pine-oak ecotone. <i>Journal of Ecology</i> , 2021, 109, 109-124.	1.9	13
76	Contrasting responses facing peak drought in seedlings of two co-occurring oak species. <i>Forestry</i> , 2010, 83, 369-378.	1.2	12
77	Divergent phenological and leaf gas exchange strategies of two competing tree species drive contrasting responses to drought at their altitudinal boundary. <i>Tree Physiology</i> , 2018, 38, 1152-1165.	1.4	12
78	Rising [CO ₂] effect on leaf drought-induced metabolome in <i>Pinus pinaster</i> Aiton: Ontogenetic- and genotypic-specific response exhibit different metabolic strategies. <i>Plant Physiology and Biochemistry</i> , 2020, 149, 201-216.	2.8	12
79	Stomatal and non-stomatal limitations on leaf carbon assimilation in beech (<i>Fagus sylvatica</i> L.) seedlings under natural conditions. <i>Forest Systems</i> , 2012, 21, 405.	0.1	12
80	Geographical variation in growth form traits in <i>Quercus suber</i> and its relation to population evolutionary history. <i>Evolutionary Ecology</i> , 2014, 28, 55-68.	0.5	11
81	Can CO ₂ enrichment modify the effect of water and high light stress on biomass allocation and relative growth rate of cork oak seedlings?. <i>Trees - Structure and Function</i> , 2006, 20, 713-724.	0.9	9
82	Increased root investment can explain the higher survival of seedlings of <i>Quercus suber</i> than <i>Quercus ilex</i> in sandy soils during a summer drought. <i>Tree Physiology</i> , 2019, 39, 64-75.	1.4	8
83	Drought escape can provide high grain yields under early drought in lentils. <i>Theoretical and Experimental Plant Physiology</i> , 2019, 31, 273-286.	1.1	8
84	The Role of Mesophyll Conductance in Oak Photosynthesis: Among- and Within-Species Variability. <i>Tree Physiology</i> , 2017, , 303-325.	0.9	6
85	Fragmentation reduces severe drought impacts on tree functioning in holm oak forests. <i>Environmental and Experimental Botany</i> , 2020, 173, 104001.	2.0	5
86	Scion-rootstock interaction and drought systemic effect modulate the organ-specific terpene profiles in grafted <i>Pinus pinaster</i> Ait. <i>Environmental and Experimental Botany</i> , 2021, 186, 104437.	2.0	5
87	Thinking in the sustainability of <i>Nothofagus antarctica</i> silvopastoral systems, how differ the responses of seedlings from different provenances to water shortage?. <i>Agroforestry Systems</i> , 2019, 93, 689-701.	0.9	4
88	Elevated atmospheric CO ₂ does not modify osmotic adjustment to light and drought in the Mediterranean oak <i>Quercus suber</i> L.. <i>Investigacion Agraria Sistemas Y Recursos Forestales</i> , 2008, 17, 3.	0.4	4
89	The uniqueness of conifers. , 2013, , 67-96.		3
90	Aerial and underground organs display specific metabolic strategies to cope with water stress under rising atmospheric CO ₂ in <i>Fagus sylvatica</i> L.. <i>Physiologia Plantarum</i> , 2022, 174, e13711.	2.6	3

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91	Analysis of adaptive responses of Pinus pinaster to changing environmental conditions in the Mediterranean region. BMC Proceedings, 2011, 5, P87.	1.8	2