Juan Pedro Ferrio

List of Publications by Year
in descending order

89 papers	4,962 citations	101496 36 h-index	98753 67 g-index
96 all docs	96 docs citations	96 times ranked	5283 citing authors

#	Article	IF	Citations
1	Carbon and oxygen isotope ratios in wood constituents of Pinus halepensis as indicators of precipitation, temperature and vapour pressure deficit. Tellus, Series B: Chemical and Physical Meteorology, 2022, 57, 164.	0.8	68
2	Disentangling water sources in a gypsum plant community. Gypsum crystallization water is a key source of water for shallow-rooted plants. Annals of Botany, 2022, 129, 87-100.	1.4	4
3	Do ²H and ¹⁸O in leaf water reflect environmental drivers differently?. New Phytologist, 2022, 235, 41-51.	3.5	29
4	Summer and winter can equally stress holm oak (Quercus ilex L.) in Mediterranean areas: A physiological view. Flora: Morphology, Distribution, Functional Ecology of Plants, 2022, 290, 152058.	0.6	8
5	Cell-level anatomy explains leaf age-dependent declines in mesophyll conductance and photosynthetic capacity in the evergreen Mediterranean oak Quercus ilex subsp. rotundifolia. Tree Physiology, 2022, , .	1.4	2
6	Postphotosynthetic Fractionation in Leaves, Phloem and Stem. Tree Physiology, 2022, , 381-396.	0.9	8
7	Changes in the Abundance of Monoterpenes from Breathable Air of a Mediterranean Conifer Forest: When Is the Best Time for a Human Healthy Leisure Activity?. Forests, 2022, 13, 965.	0.9	3
8	Gypsum-exclusive plants accumulate more leaf S than non-exclusive species both in and off gypsum. Environmental and Experimental Botany, 2021, 182, 104294.	2.0	15
9	Deciduous and evergreen oaks show contrasting adaptive responses in leaf mass per area across environments. New Phytologist, 2021, 230, 521-534.	3.5	38
10	Initial burst of root development with decreasing respiratory carbon cost in Fagus crenata Blume seedlings. Plant Species Biology, 2021, 36, 146-156.	0.6	8
11	Contrasting functional strategies following severe drought in two Mediterranean oaks with different leaf habit:Quercus fagineaandQuercus ilexsubsp.rotundifolia. Tree Physiology, 2021, 41, 371-387.	1.4	17
12	Plantâ€™s gypsum affinity shapes responses to specific edaphic constraints without limiting responses to other general constraints. Plant and Soil, 2021, 462, 297-309.	1.8	9
13	Consistent scaling of whole-shoot respiration between Moso bamboo (Phyllostachys pubescens) and trees. Journal of Plant Research, 2021, 134, 989-997.	1.2	7
14	Oak Competition Dominates Interspecific Interactions in Growth and Water-Use Efficiency in a Mixed Pineâ€“Oak Mediterranean Forest. Forests, 2021, 12, 1093.	0.9	3
15	Ground-Penetrating Radar as phenotyping tool for characterizing intraspecific variability in root traits of a widespread conifer. Plant and Soil, 2021, 468, 319-336.	1.8	8
16	Minimum Leaf Conductance (gmin) Is Higher in the Treeline of Pinus uncinata Ram. in the Pyrenees: Michaelisâ€™ Hypothesis Revisited. Frontiers in Plant Science, 2021, 12, 786933.	1.7	3
17	Living in Drylands: Functional Adaptations of Trees and Shrubs to Cope with High Temperatures and Water Scarcity. Forests, 2020, 11, 1028.	0.9	52
18	Root Architecture and Functional Traits of Spring Wheat Under Contrasting Water Regimes. Frontiers in Plant Science, 2020, 11, 581140.	1.7	10

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19	Revisiting the Functional Basis of Sclerophylly Within the Leaf Economics Spectrum of Oaks: Different Roads to Rome. Current Forestry Reports, 2020, 6, 260-281.	3.4	26
20	Editorial: The Green Side of the Water Cycle: New Advances in the Study of Plant Water Dynamics. Frontiers in Plant Science, 2020, 11, 582846.	1.7	2
21	Stable carbon isotopes in archaeological plant remains. Stratigraphy & Timescales, 2020, , 107-145.	0.2	8
22	Adsorption of polyethylene microbeads and physiological effects on hydroponic maize. Science of the Total Environment, 2020, 741, 140216.	3.9	125
23	Southeastern Rear Edge Populations of Quercus suber L. Showed Two Alternative Strategies to Cope with Water Stress. Forests, 2020, 11, 1344.	0.9	5
24	Vertical sheep mobility along the altitudinal gradient through stable isotope analyses in tooth molar bioapatite, meteoric water and pastures: A reference from the Ebro valley to the Central Pyrenees. Quaternary International, 2018, 484, 94-106.	0.7	32
25	High-carotenoid maize: development of plant biotechnology prototypes for human and animal health and nutrition. Phytochemistry Reviews, 2018, 17, 195-209.	3.1	24
26	Scarce population genetic differentiation but substantial spatiotemporal phenotypic variation of water-use efficiency in Pinus sylvestris at its western distribution range. European Journal of Forest Research, 2018, 137, 863-878.	1.1	14
27	Hydraulic Constraints to Whole-Tree Water Use and Respiration in Young Cryptomeria Trees under Competition. Forests, 2018, 9, 449.	0.9	10
28	Evaluation of the effect of the 2011 Tsunami on coastal forests by means of multiple isotopic analyses of tree-rings. Isotopes in Environmental and Health Studies, 2018, 54, 494-507.	0.5	11
29	Short-term dynamics of evaporative enrichment of xylem water in woody stems: implications for ecohydrology. Tree Physiology, 2017, 37, 511-522.	1.4	53
30	Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. Plant, Cell and Environment, 2017, 40, 1153-1162.	2.8	26
31	Night and day â€“ Circadian regulation of night-time dark respiration and light-enhanced dark respiration in plant leaves and canopies. Environmental and Experimental Botany, 2017, 137, 14-25.	2.0	23
32	Increasing drought effects on five European pines modulate Î”¹³Câ€growth coupling along a Mediterranean altitudinal gradient. Functional Ecology, 2017, 31, 1359-1370.	1.7	39
33	Circadian rhythms regulate the environmental responses of net CO2 exchange in bean and cotton canopies. Agricultural and Forest Meteorology, 2017, 239, 185-191.	1.9	6
34	Contrasting ecophysiological strategies related to drought: the case of a mixed stand of Scots pine (Pinus sylvestris) and a submediterranean oak (Quercus subpyrenaica). Tree Physiology, 2017, 37, 1478-1492.	1.4	43
35	Water use segregation among plants with contrasting root depth and distribution along gypsum hills. Journal of Vegetation Science, 2017, 28, 1107-1117.	1.1	20
36	Circadian rhythms have significant effects on leaf-to-canopy scale gas exchange under field conditions. GigaScience, 2016, 5, 43.	3.3	31

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37	Factors preventing the performance of oxygen isotope ratios as indicators of grain yield in maize. Planta, 2016, 243, 355-368.	1.6	9
38	Intraspecific variation in juvenile tree growth under elevated CO₂alone and with O₃: a meta-analysis. Tree Physiology, 2016, 36, 682-693.	1.4	34
39	Dynamics of competition over water in a mixed oak-pine Mediterranean forest: Spatio-temporal and physiological components. Forest Ecology and Management, 2016, 382, 214-224.	1.4	51
40	Intra-specific association between carbon isotope composition and productivity in woody plants: A meta-analysis. Plant Science, 2016, 251, 110-118.	1.7	34
41	Salicylic acid mitigates physiological and proteomic changes induced by the SPCP1 strain of Potato virus X in tomato plants. Physiological and Molecular Plant Pathology, 2016, 93, 1-11.	1.3	33
42	Processes driving nocturnal transpiration and implications for estimating land evapotranspiration. Scientific Reports, 2015, 5, 10975.	1.6	85
43	Isotopeâ€ratio infrared spectroscopy: a reliable tool for the investigation of plantâ€water sources?. New Phytologist, 2015, 207, 914-927.	3.5	120
44	Intraspecific variation in the use of water sources by the circumâ€Mediterranean conifer Pinus halepensis. New Phytologist, 2015, 208, 1031-1041.	3.5	105
45	Stable isotopes in archaeobotanical research. Vegetation History and Archaeobotany, 2015, 24, 215-227.	1.0	74
46	Carbon isotope discrimination, radial growth, and NDVI share spatiotemporal responses to precipitation in Aleppo pine. Trees - Structure and Function, 2015, 29, 223-233.	0.9	27
47	Utilisation des isotopes stables de lâ€™oxygÃ¨ne des cernes dâ€™arbres pour dÃ©terminer lâ€™origine des inondations passÃ©esÂ: premiers rÃ©sultats pour la pÃ©ninsule ibÃ©rique. Quaternaire, 2015, , 67-80.	0.1	15
48	Point processes statistics of stable isotopes: analysing water uptake patterns in a mixed stand of Aleppo pine and Holm oak. Forest Systems, 2015, 24, 009.	0.1	5
49	Stable isotopes in tree rings: towards a mechanistic understanding of isotope fractionation and mixing processes from the leaves to the wood. Tree Physiology, 2014, 34, 796-818.	1.4	359
50	Unravelling spatiotemporal tree-ring signals in Mediterranean oaks: a variance-covariance modelling approach of carbon and oxygen isotope ratios. Tree Physiology, 2014, 34, 819-838.	1.4	42
51	Effect of salicylic acid treatment on tomato plant physiology and tolerance to potato virus X infection. European Journal of Plant Pathology, 2014, 138, 331-345.	0.8	36
52	Drought response of mesophyll conductance in forest understory species - impacts on water-use efficiency and interactions with leaf water movement. Physiologia Plantarum, 2014, 152, 98-114.	2.6	44
53	The crystallization water of gypsum rocks is a relevant water source for plants. Nature Communications, 2014, 5, 4660.	5.8	70
54	Agronomic conditions and crop evolution in ancient Near East agriculture. Nature Communications, 2014, 5, 3953.	5.8	72

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55	Woody clockworks: circadian regulation of nightâ€time water use in <scp>E</scp>ucalyptus globulus. New Phytologist, 2013, 200, 743-752.	3.5	56
56	Simulation of stand transpiration based on a xylem water flow model for individual trees. Agricultural and Forest Meteorology, 2013, 182-183, 31-42.	1.9	16
57	Isoscapes of treeâ€ring carbonâ€13 perform like meteorological networks in predicting regional precipitation patterns. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 352-360.	1.3	13
58	A retrospective, dualâ€isotope approach reveals individual predispositions to winterâ€drought induced tree dieback in the southernmost distribution limit of <scp>S</scp>cots pine. Plant, Cell and Environment, 2013, 36, 1435-1448.	2.8	109
59	Agricultural expansion and settlement economy in Tell Halula (Mid-Euphrates valley): A diachronic study from early Neolithic to present. Journal of Arid Environments, 2012, 86, 104-112.	1.2	10
60	Mesophyll diffusion conductance to CO2: An unappreciated central player in photosynthesis. Plant Science, 2012, 193-194, 70-84.	1.7	563
61	The PÃ©clet effect on leaf water enrichment correlates with leaf hydraulic conductance and mesophyll conductance for CO₂. Plant, Cell and Environment, 2012, 35, 611-625.	2.8	79
62	Holocene changes in precipitation seasonality in the western Mediterranean Basin: a multiâ€species approach using Î´¹³C of archaeobotanical remains. Journal of Quaternary Science, 2012, 27, 192-202.	1.1	40
63	Climate at the onset of western Mediterranean agriculture expansion: Evidence from stable isotopes of sub-fossil oak tree rings in Spain. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 299, 541-551.	1.0	24
64	Shortâ€term dynamics of the carbon isotope composition of CO₂ emitted from a wheat agroecosystem â€“ physiological and environmental controls. Plant Biology, 2011, 13, 115-125.	1.8	17
65	The long way down--are carbon and oxygen isotope signals in the tree ring uncoupled from canopy physiological processes?. Tree Physiology, 2011, 31, 1088-1102.	1.4	137
66	The stable isotope ecology of terrestrial plant succession. Plant Ecology and Diversity, 2011, 4, 117-130.	1.0	22
67	Water fluxes within beech stands in complex terrain. International Journal of Biometeorology, 2010, 54, 23-36.	1.3	42
68	On the metabolic origin of the carbon isotope composition of CO₂ evolved from darkened lightâ€acclimated leaves in Ricinus communis. New Phytologist, 2009, 181, 374-386.	3.5	125
69	Drought effects on allocation of recent carbon: from beech leaves to soil CO₂ efflux. New Phytologist, 2009, 184, 950-961.	3.5	280
70	A map of autumn precipitation for the third millennium BP in the Eastern Iberian Peninsula from charcoal carbon isotopes. Journal of Geochemical Exploration, 2009, 102, 157-165.	1.5	30
71	Effect of water availability on leaf water isotopic enrichment in beech seedlings shows limitations of current fractionation models. Plant, Cell and Environment, 2009, 32, 1285-1296.	2.8	50
72	Temporal dynamics of the carbon isotope composition in a Pinus sylvestris stand: from newly assimilated organic carbon to respired carbon dioxide. Oecologia, 2008, 156, 737-750.	0.9	140

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73	Climate-related variability in carbon and oxygen stable isotopes among populations of Aleppo pine grown in common-garden tests. Trees - Structure and Function, 2008, 22, 759-769.	0.9	96
74	Stable carbon and nitrogen isotopes and quality traits of fossil cereal grains provide clues on sustainability at the beginnings of Mediterranean agriculture. Rapid Communications in Mass Spectrometry, 2008, 22, 1653-1663.	0.7	106
75	Reconstruction of Climate and Crop Conditions in the Past Based on the Carbon Isotope Signature of Archaeobotanical Remains. Journal of Nano Education (Print), 2007, 1, 319-332.	0.3	9
76	Relationships of grain ?13C and ?18O with wheat phenology and yield under water-limited conditions. Annals of Applied Biology, 2007, 150, 207-215.	1.3	61
77	Reconstruction of Climate and Crop Conditions in the Past Based on the Carbon Isotope Signature of Archaeobotanical Remains. , 2007, , 319-332.		7
78	The historical perspective of dryland agriculture: lessons learned from 10 000 years of wheat cultivation. Journal of Experimental Botany, 2006, 58, 131-145.	2.4	114
79	Carbon isotope composition of fossil charcoal reveals aridity changes in the NW Mediterranean Basin. Global Change Biology, 2006, 12, 1253-1266.	4.2	72
80	Grain weight changes over time in ancient cereal crops: Potential roles of climate and genetic improvement. Journal of Cereal Science, 2006, 44, 323-332.	1.8	19
81	Carbon and oxygen isotope ratios in wood constituents of Pinus halepensis as indicators of precipitation, temperature and vapour pressure deficit. Tellus, Series B: Chemical and Physical Meteorology, 2005, 57, 164-173.	0.8	93
82	Water management practices and climate in ancient agriculture: inferences from the stable isotope composition of archaeobotanical remains. Vegetation History and Archaeobotany, 2005, 14, 510-517.	1.0	185
83	Does higher yield potential improve barley performance in Mediterranean conditions?. Field Crops Research, 2005, 91, 149-160.	2.3	60
84	Assessment of durum wheat yield using visible and near-infrared reflectance spectra of canopies. Field Crops Research, 2005, 94, 126-148.	2.3	59
85	Estimation of grain yield by near-infrared reflectance spectroscopy in durum wheat. Euphytica, 2004, 137, 373-380.	0.6	14
86	Estimating grain weight in archaeological cereal crops: a quantitative approach for comparison with current conditions. Journal of Archaeological Science, 2004, 31, 1635-1642.	1.2	35
87	?13C and tree-ring width reflect different drought responses in Quercus ilex and Pinus halepensis. Oecologia, 2003, 137, 512-518.	0.9	182
88	Use of carbon isotope composition in monitoring environmental changes. Management of Environmental Quality, 2003, 14, 82-98.	2.2	54
89	Near infrared reflectance spectroscopy as a potential surrogate method for the analysis of D13C in mature kernels of durum wheat. Australian Journal of Agricultural Research, 2001, 52, 809.	1.5	26