List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9120791/publications.pdf Version: 2024-02-01

		94433	114465
109	4,761	37	63
papers	citations	h-index	g-index
111 all docs	111 docs citations	111 times ranked	5489 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.	1.6	68
2	Straightening the crooked: intraspecific divergence of stem posture control and associated trade-offs in a model conifer. Journal of Experimental Botany, 2022, 73, 1222-1235.	4.8	1
3	A semi-mechanistic model for predicting daily variations in species-level live fuel moisture content. Agricultural and Forest Meteorology, 2022, 323, 109022.	4.8	7
4	Bridging the genotype–phenotype gap for a Mediterranean pine by semiâ€automatic crown identification and multispectral imagery. New Phytologist, 2021, 229, 245-258.	7.3	14
5	Weather as main driver for masting and stem growth variation in stone pine supports compatible timber and nut co-production. Agricultural and Forest Meteorology, 2021, 298-299, 108287.	4.8	7
6	Direct and correlated responses to artificial selection for growth and waterâ€use efficiency in a Mediterranean pine. American Journal of Botany, 2021, 108, 102-112.	1.7	4
7	Plant's gypsum affinity shapes responses to specific edaphic constraints without limiting responses to other general constraints. Plant and Soil, 2021, 462, 297-309.	3.7	9
8	Population differentiation in climate sensitivity of resin duct formation during growth resumption in Pinus pinaster. Dendrochronologia, 2021, 67, 125839.	2.2	3
9	Oak Competition Dominates Interspecific Interactions in Growth and Water-Use Efficiency in a Mixed Pine–Oak Mediterranean Forest. Forests, 2021, 12, 1093.	2.1	3
10	Ground-Penetrating Radar as phenotyping tool for characterizing intraspecific variability in root traits of a widespread conifer. Plant and Soil, 2021, 468, 319-336.	3.7	8
11	Are global forests performing in sync? The need to account for spatiotemporal biases in treeâ€ring records. Journal of Biogeography, 2021, 48, 2961-2965.	3.0	1
12	Growth, wood anatomy and stable isotopes show species-specific couplings in three Mexican conifers inhabiting drought-prone areas. Science of the Total Environment, 2020, 698, 134055.	8.0	25
13	Needle Senescence Affects Fire Behavior in Aleppo Pine (Pinus halepensis Mill.) Stands: A Simulation Study. Forests, 2020, 11, 1054.	2.1	9
14	Stable carbon isotopes in archaeological plant remains. Stratigraphy & Timescales, 2020, , 107-145.	0.5	8
15	Dendroecological and genetic insights for future management of an old-planted forest of the endangered Mediterranean fir Abies pinsapo. Dendrochronologia, 2020, 63, 125754.	2.2	9
16	Hydraulic and photosynthetic limitations prevail over root nonâ€ s tructural carbohydrate reserves as drivers of resprouting in two Mediterranean oaks. Plant, Cell and Environment, 2020, 43, 1944-1957.	5.7	24
17	Intraspecific responses to climate reveal nonintuitive warming impacts on a widespread thermophilic conifer. New Phytologist, 2020, 228, 525-540.	7.3	24
18	Shared drought responses among conifer species in the middle Siberian taiga are uncoupled from their contrasting water-use efficiency trajectories. Science of the Total Environment, 2020, 720, 137590.	8.0	7

#	Article	IF	CITATIONS
19	Reconstructing Bronze Age diets and farming strategies at the early Bronze Age sites of La Bastida and Gatas (southeast Iberia) using stable isotope analysis. PLoS ONE, 2020, 15, e0229398.	2.5	26
20	Variation in the access to deep soil water pools explains tree-to-tree differences in drought-triggered dieback of Mediterranean oaks. Tree Physiology, 2020, 40, 591-604.	3.1	55
21	Using Water Stable Isotopes to Trace Water Sources of Three Typical Japanese Tree Species under Heavy Rainfall Conditions. Open Journal of Forestry, 2020, 10, 7-21.	0.3	2
22	Morpho-physiological variability of Pinus nigra populations reveals climate-driven local adaptation but weak water use differentiation. Environmental and Experimental Botany, 2019, 166, 103828.	4.2	15
23	Using unmanned aerial vehicleâ€based multispectral, RGB and thermal imagery for phenotyping of forest genetic trials: A case study in <scp><i>Pinus halepensis</i></scp> . Annals of Applied Biology, 2019, 174, 262-276.	2.5	29
24	Recent loss of sensitivity to summer temperature constrains tree growth synchrony among boreal Eurasian forests. Agricultural and Forest Meteorology, 2019, 268, 318-330.	4.8	18
25	Phenotypic integration and life history strategies among populations of Pinus halepensis: an insight through structural equation modelling. Annals of Botany, 2019, 124, 1161-1171.	2.9	22
26	Spatioâ€ŧemporal patterns of tree growth as related to carbon isotope fractionation in European forests under changing climate. Global Ecology and Biogeography, 2019, 28, 1295-1309.	5.8	35
27	Drought stress modifies early effective resistance and induced chemical defences of Aleppo pine against a chewing insect herbivore. Environmental and Experimental Botany, 2019, 162, 550-559.	4.2	27
28	From xylogenesis to tree rings: wood traits to investigate tree response to environmental changes. IAWA Journal, 2019, 40, 155-182.	2.7	85
29	DendroSync: An R package to unravel synchrony patterns in tree-ring networks. Dendrochronologia, 2018, 47, 17-22.	2.2	22
30	A roadmap to disentangling ecogeographical patterns of spatial synchrony in dendrosciences. Trees - Structure and Function, 2018, 32, 359-370.	1.9	20
31	High-carotenoid maize: development of plant biotechnology prototypes for human and animal health and nutrition. Phytochemistry Reviews, 2018, 17, 195-209.	6.5	24
32	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.	2.5	14
33	A trade-off between embolism resistance and bark thickness in conifers: are drought and fire adaptations antagonistic?. Plant Ecology and Diversity, 2018, 11, 253-258.	2.4	12
34	Ecotypic variation and stability in growth performance of the thermophilic conifer Pinus halepensis across the Mediterranean basin. Forest Ecology and Management, 2018, 424, 205-215.	3.2	37
35	Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. Plant, Cell and Environment, 2017, 40, 1153-1162.	5.7	26
36	Night and day – 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.	4.2	23

#	Article	IF	CITATIONS
37	Increasing drought effects on five European pines modulate Δ ¹³ Câ€growth coupling along a Mediterranean altitudinal gradient. Functional Ecology, 2017, 31, 1359-1370.	3.6	39
38	Minimum wood density of conifers portrays changes in early season precipitation at dry and cold Eurasian regions. Trees - Structure and Function, 2017, 31, 1423-1437.	1.9	25
39	Aged but withstanding: Maintenance of growth rates in old pines is not related to enhanced water-use efficiency. Agricultural and Forest Meteorology, 2017, 243, 43-54.	4.8	16
40	Circadian rhythms regulate the environmental responses of net CO2 exchange in bean and cotton canopies. Agricultural and Forest Meteorology, 2017, 239, 185-191.	4.8	6
41	Crown bulk density and fuel moisture dynamics in Pinus pinaster stands are neither modified by thinning nor captured by the Forest Fire Weather Index. Annals of Forest Science, 2017, 74, 1.	2.0	14
42	Quarantining the Sahara desert: growth and water-use efficiency of Aleppo pine in the Algerian Green Barrier. European Journal of Forest Research, 2017, 136, 139-152.	2.5	19
43	Warming Effects on Pinus sylvestris in the Cold–Dry Siberian Forest–Steppe: Positive or Negative Balance of Trade?. Forests, 2017, 8, 490.	2.1	25
44	Multienvironment Evaluation of <i>Pinus pinaster</i> Provenances: Evidence of Genetic Trade-Offs between Adaptation to Optimal Conditions and Resistance to the Maritime Pine Bast Scale (<i>Matsucoccus feytaudi</i>). Forest Science, 2016, 62, 553-563.	1.0	19
45	Circadian rhythms have significant effects on leaf-to-canopy scale gas exchange under field conditions. GigaScience, 2016, 5, 43.	6.4	31
46	Interpreting genotypeâ€byâ€environment interaction forÂbiomass production in hybrid poplars under shortâ€rotation coppice in Mediterranean environments. GCB Bioenergy, 2016, 8, 1124-1135.	5.6	12
47	Intraspecific variation in juvenile tree growth under elevated CO ₂ alone and with O ₃ : a meta-analysis. Tree Physiology, 2016, 36, 682-693.	3.1	34
48	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.	3.2	51
49	Intra-specific association between carbon isotope composition and productivity in woody plants: A meta-analysis. Plant Science, 2016, 251, 110-118.	3.6	34
50	Forests synchronize their growth in contrasting Eurasian regions in response to climate warming. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 662-667.	7.1	126
51	lsotopeâ€ratio infrared spectroscopy: a reliable tool for the investigation of plantâ€water sources?. New Phytologist, 2015, 207, 914-927.	7.3	120
52	Intraspecific variation in the use of water sources by the circumâ€Mediterranean conifer <i>Pinus halepensis</i> . New Phytologist, 2015, 208, 1031-1041.	7.3	105
53	Carbon isotope discrimination, radial growth, and NDVI share spatiotemporal responses to precipitation in Aleppo pine. Trees - Structure and Function, 2015, 29, 223-233.	1.9	27
54	The combined effects of a longâ€ŧerm experimental drought and an extreme drought on the use of plantâ€water sources in a Mediterranean forest. Global Change Biology, 2015, 21, 1213-1225.	9.5	240

#	Article	IF	CITATIONS
55	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.	0.3	5
56	Drought-induced mortality selectively affects Scots pine trees that show limited intrinsic water-use efficiency responsiveness to raising atmospheric CO2. Functional Plant Biology, 2014, 41, 244.	2.1	32
57	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.	3.1	42
58	Growth and carbon isotopes of Mediterranean trees reveal contrasting responses to increased carbon dioxide and drought. Oecologia, 2014, 174, 307-317.	2.0	81
59	Performance of hybrid poplar clones in short rotation coppice in Mediterranean environments: analysis of genotypic stability. GCB Bioenergy, 2014, 6, 661-671.	5.6	33
60	Agronomic conditions and crop evolution in ancient Near East agriculture. Nature Communications, 2014, 5, 3953.	12.8	72
61	Building bridges: an integrated strategy for sustainable food production throughout the value chain. Molecular Breeding, 2013, 32, 743-770.	2.1	28
62	lsoscapes of treeâ€ring carbonâ€13 perform like meteorological networks in predicting regional precipitation patterns. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 352-360.	3.0	13
63	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.	5.7	109
64	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.	2.4	10
65	Phenotypic plasticity and climatic adaptation in an Atlantic maritime pine breeding population. Annals of Forest Science, 2012, 69, 477-487.	2.0	20
66	Combined use of δ ¹³ C, δ ¹⁸ O and δ ¹⁵ N tracks nitrogen metabolism and genotypic adaptation of durum wheat to salinity and water deficit. New Phytologist, 2012, 194, 230-244.	7.3	115
67	Holocene changes in precipitation seasonality in the western Mediterranean Basin: a multiâ€species approach using l´ ¹³ C of archaeobotanical remains. Journal of Quaternary Science, 2012, 27, 192-202.	2.1	40
68	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.	2.3	24
69	Stable isotope views on ecosystem function: challenging or challenged?. Biology Letters, 2010, 6, 287-289.	2.3	6
70	Effect of salinity and water stress during the reproductive stage on growth, ion concentrations, Δ13C, and δ15N of durum wheat and related amphiploids. Journal of Experimental Botany, 2010, 61, 3529-3542.	4.8	64
71	Genetic variation for carbon isotope composition in Juglans regia L.: relationships with growth, phenology and climate of origin. Annals of Forest Science, 2009, 66, 413-413.	2.0	19
72	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.	3.2	30

#	Article	IF	CITATIONS
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.	1.9	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.	1.5	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.	2.5	61
77	Phenotypic diversity and delimitation between wild and cultivated forms of the genus Pyrus in North-eastern Spain based on morphometric analyses. Genetic Resources and Crop Evolution, 2007, 54, 1473-1487.	1.6	17
78	Reconstruction of Climate and Crop Conditions in the Past Based on the Carbon Isotope Signature of Archaeobotanical Remains. , 2007, , 319-332.		7
79	The historical perspective of dryland agriculture: lessons learned from 10 000 years of wheat cultivation. Journal of Experimental Botany, 2006, 58, 131-145.	4.8	114
80	Morphological and functional variability in the root system ofQuercus ilexL. subject to confinement: consequences for afforestation. Annals of Forest Science, 2006, 63, 425-430.	2.0	50
81	Carbon isotope composition of fossil charcoal reveals aridity changes in the NW Mediterranean Basin. Global Change Biology, 2006, 12, 1253-1266.	9.5	72
82	Carbon Isotope Discrimination, Gas Exchange and Stem Growth of Four Euramerican Hybrid Poplars under Different Watering Regimes. New Forests, 2006, 31, 435-451.	1.7	32
83	Grain weight changes over time in ancient cereal crops: Potential roles of climate and genetic improvement. Journal of Cereal Science, 2006, 44, 323-332.	3.7	19
84	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.	1.6	93
85	Use of biplot analysis and factorial regression for the investigation of superior genotypes in multi-environment trials. European Journal of Agronomy, 2005, 22, 309-324.	4.1	66
86	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.	2.1	185
87	Does higher yield potential improve barley performance in Mediterranean conditions?. Field Crops Research, 2005, 91, 149-160.	5.1	60
88	Stable isotopes in arid and semi-arid Investigación Agraria: Sistemas y Recursos Forestales. Investigacion Agraria Sistemas Y Recursos Forestales, 2005, 14, 371.	0.4	15
89	Mixed models including environmental covariables for studying QTL by environment interaction. Euphytica, 2004, 137, 139-145.	1.2	128
90	Estimating grain weight in archaeological cereal crops: a quantitative approach for comparison with current conditions. Journal of Archaeological Science, 2004, 31, 1635-1642.	2.4	35

#	Article	IF	CITATIONS
91	Retrospective Evaluation of Parental Selection in Nursery Tests of Juglans regia L. Using a Mixed Model Analysis. Silvae Genetica, 2004, 53, 26-33.	0.8	12
92	?13C and tree-ring width reflect different drought responses in Quercus ilex and Pinus halepensis. Oecologia, 2003, 137, 512-518.	2.0	182
93	Use of carbon isotope composition in monitoring environmental changes. Management of Environmental Quality, 2003, 14, 82-98.	4.3	54
94	Mechanisms of Malt Extract Development in Barleys from Different European Regions: II. Effect of Barley Hordein Fractions on Malt Extract Yield. Journal of the Institute of Brewing, 2000, 106, 117-124.	2.3	30
95	Remobilization of Preâ€Anthesis Assimilates to the Grain for Grain Only and Dualâ€Purpose (Forage and) Tj ETQq2	L 1 0.7843 1.8	314 rgBT /○
96	Crop water availability in early agriculture: evidence from carbon isotope discrimination of seeds from a tenth millennium BP site on the Euphrates. Global Change Biology, 1999, 5, 201-212.	9.5	81
97	Integrating statistical and ecophysiological analyses of genotype by environment interaction for grain filling of barley I Field Crops Research, 1999, 62, 63-74.	5.1	49
98	Integrating statistical and ecophysiological analyses of genotype by environment interaction for grain filling of barley II Field Crops Research, 1999, 62, 75-84.	5.1	39
99	Genotype by environment interaction for grain yield and carbon isotope discrimination of barley in Mediterranean Spain. Australian Journal of Agricultural Research, 1999, 50, 1263.	1.5	102
100	Changes over time in the adaptation of barley releases in north-eastern Spain. Plant Breeding, 1998, 117, 531-535.	1.9	53
101	Mineral accumulation, carbon isotope discrimination and indirect selection for grain yield in two-rowed barley grown under semiarid conditions. European Journal of Agronomy, 1998, 9, 147-155.	4.1	57
102	Chlorophyll fluorescence as a selection criterion for grain yield in durum wheat under Mediterranean conditions. Field Crops Research, 1998, 55, 209-223.	5.1	121
103	Image Analysis of Grain and Chemical Composition of the Barley Plant as Predictors of Malting Quality in Mediterranean Environments. Cereal Chemistry, 1998, 75, 755-761.	2.2	10
104	Growth and Final Weight of Central and Lateral Barley Grains under Mediterranean Conditions as Influenced by Sink Strength. Crop Science, 1998, 38, 84-89.	1.8	23
105	Patterns of Barley Grain Development in Spain and Scotland and Their Implications for Malting Quality. Cereal Chemistry, 1997, 74, 456-461.	2.2	46
106	Identification of Ancient Irrigation Practices based on the Carbon Isotope Discrimination of Plant Seeds: a Case Study from the South-East Iberian Peninsula. Journal of Archaeological Science, 1997, 24, 729-740.	2.4	137
107	Genetic and Environmental Variation in Malting and Feed Quality of Barley. Journal of Cereal Science, 1997, 25, 37-47.	3.7	81
108	Grain size and nitrogen accumulation in sink-reduced barley under Mediterranean conditions. Field Crops Research, 1997, 52, 117-126.	5.1	39

#	Article	IF	CITATIONS
109	Grain yield, carbon isotope discrimination and mineral content in mature kernels of barley under irrigated and rainfed conditions. Agronomy for Sustainable Development, 1994, 14, 127-132.	0.8	18