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The high vulnerability of *Quercus robur* to drought at its southern margin paves the way for *Quercus ilex*

DOI: 10.1007/s11258-014-0426-8  
Plant Ecology, 2015, 216, 177-187.

**Source:** <https://exaly.com/paper-pdf/61834129/citation-report.pdf>

**Version:** 2024-04-28

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#	Paper	IF	Citations
50	Comparative Drought Responses of <i>Quercus ilex</i> L. and <i>Pinus sylvestris</i> L. in a Montane Forest Undergoing a Vegetation Shift. <i>Forests</i> , <b>2015</b> , 6, 2505-2529	2.8	29
49	The high vulnerability of <i>Quercus robur</i> to drought at its southern margin paves the way for <i>Quercus ilex</i> . <i>Plant Ecology</i> , <b>2015</b> , 216, 177-187	1.7	44
48	Feedbacks between earlywood anatomy and non-structural carbohydrates affect spring phenology and wood production in ring-porous oaks. <i>Biogeosciences</i> , <b>2016</b> , 13, 5499-5510	4.6	19
47	Post-fire resprouting oaks (genus: <i>Quercus</i> ) exhibit plasticity in xylem vulnerability to drought. <i>Plant Ecology</i> , <b>2016</b> , 217, 697-710	1.7	7
46	Tests of species-specific models reveal the importance of drought in postglacial range shifts of a Mediterranean-climate tree: insights from integrative distributional, demographic and coalescent modelling and ABC model selection. <i>Molecular Ecology</i> , <b>2016</b> , 25, 4889-906	5.7	24
45	Fine-scale species distribution changes in a mixed oak stand over two successive generations. <i>New Phytologist</i> , <b>2017</b> , 215, 126-139	9.8	15
44	The climate to growth relationships of pedunculate oak in steppe. <i>Dendrochronologia</i> , <b>2017</b> , 44, 31-38	2.8	13
43	Environmental Challenges for Trees. <b>2017</b> , 351-389		
42	Response of <i>Quercus robur</i> and two potential climate change winners <i>Quercus pubescens</i> and <i>Quercus ilex</i> to two years summer drought in a semi-controlled competition study: tree water status. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 152, 107-117	5.9	13
41	The legacy of water deficit on populations having experienced negative hydraulic safety margin. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 346-356	6.1	24
40	Assessing inter- and intraspecific variability of xylem vulnerability to embolism in oaks. <i>Forest Ecology and Management</i> , <b>2018</b> , 424, 53-61	3.9	51
39	Do ring-porous oaks prioritize earlywood vessel efficiency over safety? Environmental effects on vessel diameter and tyloses formation. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 248, 205-214	5.8	23
38	Drought-induced shift in tree response to climate in floodplain forests of Southeastern Europe. <i>Scientific Reports</i> , <b>2018</b> , 8, 16495	4.9	25
37	An inconvenient truth about xylem resistance to embolism in the model species for refilling <i>Laurus nobilis</i> L.. <i>Annals of Forest Science</i> , <b>2018</b> , 75, 1	3.1	28
36	Early monsoon failure and mid-summer dryness induces growth cessation of lower range margin <i>Picea crassifolia</i> . <i>Trees - Structure and Function</i> , <b>2018</b> , 32, 1401-1413	2.6	10
35	Species Diversity of Oak Stands and Its Significance for Drought Resistance. <i>Forests</i> , <b>2018</b> , 9, 126	2.8	5
34	Influence of Drought on Foliar Water Uptake Capacity of Temperate Tree Species. <i>Forests</i> , <b>2019</b> , 10, 562	2.8	7

33	Genetic differentiation in functional traits among European sessile oak populations. <i>Tree Physiology</i> , <b>2019</b> , 39, 1736-1749	4.2	20
32	Responses of plant leaf economic and hydraulic traits mediate the effects of early- and late-season drought on grassland productivity. <i> AoB PLANTS</i> , <b>2019</b> , 11, plz023	2.9	10
31	Plant Species-Specific Litter Decomposition Rates Are Directly Affected by Tropospheric Ozone: Analysis of Trends and Modelling. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1	2.6	5
30	Geographical adaptation prevails over species-specific determinism in trees Vulnerability to climate change at Mediterranean rear-edge forests. <i>Global Change Biology</i> , <b>2018</b> , 25, 1296	11.4	37
29	Precipitation variability differently affects radial growth, xylem traits and ring porosity of three Mediterranean oak species at xeric and mesic sites. <i>Science of the Total Environment</i> , <b>2020</b> , 699, 134285	10.2	9
28	Xylem embolism in leaves does not occur with open stomata: evidence from direct observations using the optical visualization technique. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 1151-1159	7	26
27	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> , <b>2020</b> , 227, 794-809	9.8	22
26	Water use strategy affects avoidance of ozone stress by stomatal closure in Mediterranean trees-A modelling analysis. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 611-623	8.4	16
25	Isotopic and Water Relation Responses to Ozone and Water Stress in Seedlings of Three Oak Species with Different Adaptation Strategies. <i>Forests</i> , <b>2020</b> , 11, 864	2.8	9
24	Provenance selection and site conditions determine growth performance of pedunculate oak. <i>Dendrochronologia</i> , <b>2020</b> , 61, 125705	2.8	13
23	How do social status and tree architecture influence radial growth, wood density and drought response in spontaneously established oak forests?. <i>Annals of Forest Science</i> , <b>2020</b> , 77, 1	3.1	7
22	Candidate gene SNP variation in floodplain populations of pedunculate oak ( <i>Quercus robur</i> L.) near the species southern range margin: Weak differentiation yet distinct associations with water availability. <i>Molecular Ecology</i> , <b>2020</b> , 29, 2359-2378	5.7	7
21	Dynamics of mixed lowland forests in Central Bohemia over a 20-year period. <i>Journal of Forest Science</i> , <b>2020</b> , 66, 49-62	0.9	2
20	Fragmentation reduces severe drought impacts on tree functioning in holm oak forests. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 173, 104001	5.9	2
19	Oak regeneration at the arid boundary of the temperate deciduous forest biome: insights from a seeding and watering experiment. <i>European Journal of Forest Research</i> , <b>2021</b> , 140, 589-601	2.7	1
18	Variation in nocturnal stomatal conductance and development of predawn disequilibrium between soil and leaf water potentials in nine temperate deciduous tree species. <i>Functional Plant Biology</i> , <b>2021</b> , 48, 483-492	2.7	5
17	Carbon Stocks of Hardwood Floodplain Forests along the Middle Elbe: The Influence of Forest Age, Structure, Species, and Hydrological Conditions. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 670	3	2
16	Hydraulic failure and tree size linked with canopy die-back in eucalypt forest during extreme drought. <i>New Phytologist</i> , <b>2021</b> , 230, 1354-1365	9.8	17

15	Soil properties are significant modifiers of pedunculate oak ( <i>Quercus robur</i> L.) radial increment variations and their sensitivity to drought. <i>Dendrochronologia</i> , <b>2021</b> , 67, 125838	2.8	3
14	Climate sensitivity and drought seasonality determine post-drought growth recovery of <i>Quercus petraea</i> and <i>Quercus robur</i> in Europe. <i>Science of the Total Environment</i> , <b>2021</b> , 784, 147222	10.2	13
13	Reactions of three European oak species ( <i>Q. robur</i> , <i>Q. petraea</i> and <i>Q. ilex</i> ) to repetitive summer drought in sandy soil. <i>Trees, Forests and People</i> , <b>2021</b> , 5, 100093	1.8	3
12	Patchy distribution and varied habitats of <i>Macrozamia lucida</i> cycads explained by constancy in a key environmental variable. <i>Australian Journal of Botany</i> , <b>2016</b> , 64, 285	1.2	1
11	Oak seedling performance and soil development across a forest restoration chronosequence following agriculture in the American Midwest greenhouse experiment. <i>Restoration Ecology</i> , e13587	3.1	
10	Oak regeneration at the arid boundary of the temperate deciduous forest biome: insights from a seeding and watering experiment.		
9	Selecting tree species with high transpiration and drought avoidance to optimise runoff reduction in passive irrigation systems. <i>Science of the Total Environment</i> , <b>2021</b> , 151466	10.2	0
8	Coppicing Modulates Physiological Responses of Sessile Oak ( <i>Quercus Petraea</i> Matt. Lieb.) to Drought. <i>SSRN Electronic Journal</i> ,	1	
7	Provisioning ecosystem services related with oak ( <i>Quercus</i> ) systems: a review of challenges and opportunities. <i>Agroforestry Systems</i> , <b>2022</b> , 96, 293	2	0
6	Initial oak regeneration responses to experimental warming along microclimatic and macroclimatic gradients.. <i>Plant Biology</i> , <b>2022</b> ,	3.7	0
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4	Climate change-induced background tree mortality is exacerbated towards the warm limits of the species ranges. <i>Annals of Forest Science</i> , <b>2022</b> , 79,	3.1	2
3	Provenance Differences in Water-Use Efficiency Among Sessile Oak Populations Grown in a Mesic Common Garden. <i>Frontiers in Forests and Global Change</i> , 5,	3.7	
2	Species specific vulnerability to increased drought in temperate and Mediterranean floodplain forests. <b>2023</b> , 328, 109238		0
1	Cultivation Using Coir Substrate and P or K Enriched Fertilizer Provides Higher Resistance to Drought in Ecologically Diverse <i>Quercus</i> Species. <b>2023</b> , 12, 525		0