

Jean-Marc Limousin

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,166
citations

201674

27
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289244

40
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41
docs citations

41
times ranked

4938
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017, 1, 1285-1291.	7.8	739
2	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , 2015, 5, 459-464.	18.8	397
3	How do leaf and ecosystem measures of water-use efficiency compare?. <i>New Phytologist</i> , 2017, 216, 758-770.	7.3	156
4	Modelling rainfall interception in a mediterranean <i>Quercus ilex</i> ecosystem: Lesson from a throughfall exclusion experiment. <i>Journal of Hydrology</i> , 2008, 357, 57-66.	5.4	114
5	The temporal response to drought in a Mediterranean evergreen tree: comparing a regional precipitation gradient and a throughfall exclusion experiment. <i>Global Change Biology</i> , 2013, 19, 2413-2426.	9.5	106
6	Leaf physiological responses to extreme droughts in Mediterranean <i>Quercus ilex</i> forest. <i>Plant, Cell and Environment</i> , 2010, 33, 1898-1910.	5.7	105
7	Few multiyear precipitation-reduction experiments find a shift in the productivity-precipitation relationship. <i>Global Change Biology</i> , 2016, 22, 2570-2581.	9.5	105
8	Towards physiologically meaningful water-use efficiency estimates from eddy covariance data. <i>Global Change Biology</i> , 2018, 24, 694-710.	9.5	105
9	Do photosynthetic limitations of evergreen <i>Quercus ilex</i> leaves change with long-term increased drought severity?. <i>Plant, Cell and Environment</i> , 2010, 33, 863-875.	5.7	97
10	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020, 26, 6916-6930.	9.5	97
11	Regulation and acclimation of leaf gas exchange in a juniper woodland exposed to three different precipitation regimes. <i>Plant, Cell and Environment</i> , 2013, 36, 1812-1825.	5.7	83
12	Change in hydraulic traits of Mediterranean <i>Quercus ilex</i> subjected to long-term throughfall exclusion. <i>Tree Physiology</i> , 2010, 30, 1026-1036.	3.1	82
13	Morphological and phenological shoot plasticity in a Mediterranean evergreen oak facing long-term increased drought. <i>Oecologia</i> , 2012, 169, 565-577.	2.0	79
14	Thinning increases tree growth by delaying drought-induced growth cessation in a Mediterranean evergreen oak coppice. <i>Forest Ecology and Management</i> , 2018, 409, 333-342.	3.2	67
15	Is selective thinning an adequate practice for adapting <i>Quercus ilex</i> coppices to climate change?. <i>Annals of Forest Science</i> , 2011, 68, 575.	2.0	66
16	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	9.9	65
17	Prolonged experimental drought reduces plant hydraulic conductance and transpiration and increases mortality in a juniper woodland. <i>Ecology and Evolution</i> , 2015, 5, 1618-1638.	1.9	63
18	Photosynthetic sensitivity to drought varies among populations of <i>Quercus ilex</i> along a rainfall gradient. <i>Functional Plant Biology</i> , 2012, 39, 25.	2.1	62

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19	Manipulative experiments demonstrate how long-term soil moisture changes alter controls of plant water use. <i>Environmental and Experimental Botany</i> , 2018, 152, 19-27.	4.2	49
20	Stem hydraulic capacitance decreases with drought stress: implications for modelling tree hydraulics in the Mediterranean oak <i>Quercus ilex</i> . <i>Plant, Cell and Environment</i> , 2017, 40, 1379-1391.	5.7	48
21	Rainfall exclusion and thinning can alter the relationships between forest functioning and drought. <i>New Phytologist</i> , 2019, 223, 1267-1279.	7.3	48
22	Integrating ecophysiology and forest landscape models to improve projections of drought effects under climate change. <i>Global Change Biology</i> , 2015, 21, 843-856.	9.5	43
23	Functional changes in the control of carbon fluxes after 3 years of increased drought in a Mediterranean evergreen forest?. <i>Global Change Biology</i> , 2010, 16, 2461-2475.	9.5	42
24	Convergence in resource use efficiency across trees with differing hydraulic strategies in response to ecosystem precipitation manipulation. <i>Functional Ecology</i> , 2015, 29, 1125-1136.	3.6	35
25	Impact of local soil and subsoil conditions on inter-individual variations in tree responses to drought: insights from Electrical Resistivity Tomography. <i>Science of the Total Environment</i> , 2020, 698, 134247.	8.0	35
26	Unravelling the effect of species mixing on water use and drought stress in Mediterranean forests: A modelling approach. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108233.	4.8	30
27	Recent climate hiatus revealed dual control by temperature and drought on the stem growth of Mediterranean <i>Quercus ilex</i> . <i>Global Change Biology</i> , 2017, 23, 42-55.	9.5	29
28	Drought acclimation of <i>Quercus ilex</i> leaves improves tolerance to moderate drought but not resistance to severe water stress. <i>Plant, Cell and Environment</i> , 2022, 45, 1967-1984.	5.7	26
29	Microhabitat and ectomycorrhizal effects on the establishment, growth and survival of <i>Quercus ilex</i> L. seedlings under drought. <i>PLoS ONE</i> , 2020, 15, e0229807.	2.5	21
30	One Stomatal Model to Rule Them All? Toward Improved Representation of Carbon and Water Exchange in Global Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	20
31	Beyond forest succession: A gap model to study ecosystem functioning and tree community composition under climate change. <i>Functional Ecology</i> , 2021, 35, 955-975.	3.6	19
32	Drought-Induced Oak Decline—Factors Involved, Physiological Dysfunctions, and Potential Attenuation by Forestry Practices. <i>Tree Physiology</i> , 2017, , 419-451.	2.5	16
33	Soil biota response to experimental rainfall reduction depends on the dominant tree species in mature northern Mediterranean forests. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108122.	8.8	13
34	Holm oak fecundity does not acclimate to a drier world. <i>New Phytologist</i> , 2021, 231, 631-645.	7.3	12
35	Method comparison of indirect assessments of understory leaf area index (LAI _u): A case study across the extended network of ICOS forest ecosystem sites in Europe. <i>Ecological Indicators</i> , 2021, 128, 107841.	6.3	12
36	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. <i>Biogeosciences</i> , 2021, 18, 621-635.	3.3	12

#	ARTICLE	IF	CITATIONS
37	Consistently lower sap velocity and growth over nine years of rainfall exclusion in a Mediterranean mixed pine-oak forest. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108472.	4.8	10
38	Resource manipulation through experimental defoliation has legacy effects on allocation to reproductive and vegetative organs in <i>Quercus ilex</i> . <i>Annals of Botany</i> , 2020, 126, 1165-1179.	2.9	8
39	Reply to comment by Llorens et al. on "Modelling rainfall interception in a Mediterranean <i>Quercus ilex</i> ecosystem: Lesson from a throughfall exclusion experiment" [<i>Journal of Hydrology</i> 357 (2008) 57-66]. <i>Journal of Hydrology</i> , 2009, 365, 142-143.	5.4	1