

# LluÃ-s Coll

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

5,885  
citations

94433

37  
h-index

76900

74  
g-index

91  
all docs

91  
docs citations

91  
times ranked

8768  
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	Facilitation in plant communities: the past, the present, and the future. <i>Journal of Ecology</i> , 2008, 96, 18-34.	4.0	788
3	Unraveling the Effects of Plant Hydraulics on Stomatal Closure during Water Stress in Walnut. <i>Plant Physiology</i> , 2002, 128, 282-290.	4.8	308
4	Growth and yield of mixed versus pure stands of Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) analysed along a productivity gradient through Europe. <i>European Journal of Forest Research</i> , 2015, 134, 927-947.	2.5	257
5	Viewing forests through the lens of complex systems science. <i>Ecosphere</i> , 2014, 5, 1-23.	2.2	182
6	Hydraulic architecture of leaf blades: where is the main resistance?. <i>Plant, Cell and Environment</i> , 2004, 27, 1257-1267.	5.7	159
7	Species interactions increase the temporal stability of community productivity in <i>Pinus sylvestris</i> – <i>Fagus sylvatica</i> mixtures across Europe. <i>Journal of Ecology</i> , 2017, 105, 1032-1043.	4.0	140
8	Effects of crown architecture and stand structure on light absorption in mixed and monospecific <i>Fagus sylvatica</i> and <i>Pinus sylvestris</i> forests along a productivity and climate gradient through Europe. <i>Journal of Ecology</i> , 2018, 106, 746-760.	4.0	125
9	Land-use legacies rather than climate change are driving the recent upward shift of the mountain tree line in the Pyrenees. <i>Global Ecology and Biogeography</i> , 2016, 25, 263-273.	5.8	123
10	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015, 96, 1445-1445.	3.2	122
11	Mixing of Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) enhances structural heterogeneity, and the effect increases with water availability. <i>Forest Ecology and Management</i> , 2016, 373, 149-166.	3.2	115
12	European Mixed Forests: definition and research perspectives. <i>Forest Systems</i> , 2014, 23, 518.	0.3	107
13	Forest management for adaptation to climate change in the Mediterranean basin: A synthesis of evidence. <i>Forest Ecology and Management</i> , 2018, 407, 16-22.	3.2	95
14	Knowledge gaps about mixed forests: What do European forest managers want to know and what answers can science provide?. <i>Forest Ecology and Management</i> , 2018, 407, 106-115.	3.2	90
15	Plasticity in growth, biomass allocation and root morphology in beech seedlings as induced by irradiance and herbaceous competition. <i>Annals of Forest Science</i> , 2005, 62, 51-60.	2.0	88
16	Competition for water between beech seedlings and surrounding vegetation in different light and vegetation composition conditions. <i>Annals of Forest Science</i> , 2003, 60, 593-600.	2.0	83
17	Trajectory analysis in community ecology. <i>Ecological Monographs</i> , 2019, 89, e01350.	5.4	74
18	Land-use changes as major drivers of mountain pine ( <i>Pinus uncinata</i> Ram.) expansion in the Pyrenees. <i>Global Ecology and Biogeography</i> , 2010, 19, 632-641.	5.8	72

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19	Morphological and physiological responses of beech ( <i>Fagus sylvatica</i> ) seedlings to grass-induced belowground competition. <i>Tree Physiology</i> , 2004, 24, 45-54.	3.1	71
20	Future trade-offs and synergies among ecosystem services in Mediterranean forests under global change scenarios. <i>Ecosystem Services</i> , 2020, 45, 101174.	5.4	68
21	Species-specific and generic biomass equations for seedlings and saplings of European tree species. <i>European Journal of Forest Research</i> , 2016, 135, 313-329.	2.5	67
22	Species mixing reduces drought susceptibility of Scots pine ( <i>Pinus sylvestris</i> L.) and oak ( <i>Quercus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Forest Ecology and Management</i> , 2020, 461, 117908.	3.2	65
23	The role of below-ground competition during early stages of secondary succession: the case of 3-year-old Scots pine ( <i>Pinus sylvestris</i> L.) seedlings in an abandoned grassland. <i>Oecologia</i> , 2006, 148, 373-383.	2.0	59
24	Climate influences on the maximum size-density relationship in Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) stands. <i>Forest Ecology and Management</i> , 2017, 385, 295-307.	3.2	59
25	Unraveling the effects of plant hydraulics on stomatal closure during water stress in walnut. <i>Plant Physiology</i> , 2002, 128, 282-90.	4.8	59
26	Coupling a water balance model with forest inventory data to predict drought stress: the role of forest structural changes vs. climate changes. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 77-90.	4.8	55
27	Managing stand density to enhance the adaptability of Scots pine stands to climate change: A modelling approach. <i>Ecological Modelling</i> , 2017, 356, 141-150.	2.5	55
28	Resource and nonâ€resource root competition effects of grasses on earlyâ€versus lateâ€successional trees. <i>Journal of Ecology</i> , 2009, 97, 548-554.	4.0	49
29	History matters: Previous land use changes determine post-fire vegetation recovery in forested Mediterranean landscapes. <i>Forest Ecology and Management</i> , 2012, 279, 121-127.	3.2	47
30	Growth, allocation and leaf gas exchanges of hybrid poplar plants in their establishment phase on previously forested sites: effect of different vegetation management techniques. <i>Annals of Forest Science</i> , 2007, 64, 275-285.	2.0	45
31	Root architecture and allocation patterns of eight native tropical species with different successional status used in open-grown mixed plantations in Panama. <i>Trees - Structure and Function</i> , 2008, 22, 585-596.	1.9	44
32	Climate Change Could Negate Positive Tree Diversity Effects on Forest Productivity: A Study Across Five Climate Types in Spain and Canada. <i>Ecosystems</i> , 2018, 21, 960-970.	3.4	43
33	Tree dynamics and co-existence in the montane-sub-alpine ecotone: the role of different light-induced strategies. <i>Journal of Vegetation Science</i> , 2011, 22, 1049-1061.	2.2	42
34	Predicting understory maximum shrubs cover using altitude and overstory basal area in different Mediterranean forests. <i>European Journal of Forest Research</i> , 2011, 130, 55-65.	2.5	42
35	Unraveling the relative importance of factors driving post-fire regeneration trajectories in non-serotinous <i>Pinus nigra</i> forests. <i>Forest Ecology and Management</i> , 2016, 361, 13-22.	3.2	42
36	Resistance, Resilience or Change: Post-disturbance Dynamics of Boreal Forests After Insect Outbreaks. <i>Ecosystems</i> , 2019, 22, 1886-1901.	3.4	42

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37	Effects of tree size and position on pipe model ratios in Scots pine. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1294-1304.	1.7	40
38	Predicting the spatial and temporal dynamics of species interactions in <i>Fagus sylvatica</i> and <i>Pinus sylvestris</i> forests across Europe. <i>Forest Ecology and Management</i> , 2017, 405, 112-133.	3.2	40
39	Forest vegetation management under debate: an introduction. <i>European Journal of Forest Research</i> , 2011, 130, 1-5.	2.5	38
40	Recruitment patterns of four tree species along elevation gradients in Mediterranean mountains: Not only climate matters. <i>Forest Ecology and Management</i> , 2016, 360, 287-296.	3.2	32
41	Wind and snow damage in the Pyrenees pine forests: effect of stand attributes and location. <i>Silva Fennica</i> , 2010, 44, .	1.3	32
42	Different Factors for Different Causes: Analysis of the Spatial Aggregations of Fire Ignitions in Catalonia (Spain). <i>Risk Analysis</i> , 2015, 35, 1197-1209.	2.7	31
43	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
44	Species proportions by area in mixtures of Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus</i> ) Tj ETQq0 0 0,rgBT /Overlock 10 T	2.9	29
45	Modelling approaches for mixed forests dynamics prognosis. Research gaps and opportunities. <i>Forest Systems</i> , 2019, 28, eR002.	0.3	29
46	Linking multiple-level tree traits with biomass accumulation in native tree species used for reforestation in Panama. <i>Trees - Structure and Function</i> , 2008, 22, 337-349.	1.9	27
47	Herbivory and seedling establishment in Pyrenean forests: Influence of micro- and meso-habitat factors on browsing pressure. <i>Forest Ecology and Management</i> , 2015, 342, 103-111.	3.2	27
48	Survival vs. growth trade-off in early recruitment challenges global warming impacts on Mediterranean mountain trees. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2015, 17, 369-378.	2.7	27
49	EuMIXFOR empirical forest mensuration and ring width data from pure and mixed stands of Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) through Europe. <i>Annals of Forest Science</i> , 2017, 74, 1.	2.0	27
50	Nitrogen forms affect root structure and water uptake in the hybrid poplar. <i>New Forests</i> , 2011, 42, 347-362.	1.7	26
51	Architecture, cover and light interception by bramble ( <i>Rubus fruticosus</i> ): a common understorey weed in temperate forests. <i>Forestry</i> , 2013, 86, 39-46.	2.3	26
52	Tree light capture and spatial variability of understorey light increase with species mixing and tree size heterogeneity. <i>Canadian Journal of Forest Research</i> , 2016, 46, 968-977.	1.7	26
53	Six-year time course of light-use efficiency, carbon gain and growth of beech saplings ( <i>Fagus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.1	25
54	Valuing acorn dispersal and resprouting capacity ecological functions to ensure Mediterranean forest resilience after fire. <i>European Journal of Forest Research</i> , 2012, 131, 835-844.	2.5	25

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55	Ecosystem services provision by Mediterranean forests will be compromised above 2°C warming. <i>Global Change Biology</i> , 2021, 27, 4210-4222.	9.5	25
56	Assessing the persistence capacity of communities facing natural disturbances on the basis of species response traits. <i>Ecological Indicators</i> , 2016, 66, 76-85.	6.3	24
57	Forest expansion in mountain protected areas: Trends and consequences for the landscape. <i>Landscape and Urban Planning</i> , 2021, 216, 104240.	7.5	24
58	Uncoupled spatiotemporal patterns of seed dispersal and regeneration in Pyrenean silver fir populations. <i>Forest Ecology and Management</i> , 2014, 319, 18-28.	3.2	23
59	Combining aerial LiDAR and multispectral imagery to assess postfire regeneration types in a Mediterranean forest. <i>Canadian Journal of Forest Research</i> , 2015, 45, 856-866.	1.7	22
60	Fine root seasonal dynamics, plasticity, and mycorrhization in 2 coexisting Mediterranean oaks with contrasting aboveground phenology. <i>Ecoscience</i> , 2012, 19, 238-245.	1.4	21
61	Unraveling the role of light and biotic interactions on seedling performance of four Pyrenean species along environmental gradients. <i>Forest Ecology and Management</i> , 2013, 303, 25-34.	3.2	21
62	The use of scenarios and models to evaluate the future of nature values and ecosystem services in Mediterranean forests. <i>Regional Environmental Change</i> , 2019, 19, 415-428.	2.9	20
63	Diversifying sub-Mediterranean pinewoods with oak species in a context of assisted migration: responses to local climate and light environment. <i>Applied Vegetation Science</i> , 2016, 19, 254-266.	1.9	19
64	Understory light predictions in mixed conifer mountain forests: Role of aspect-induced variation in crown geometry and openness. <i>Forest Ecology and Management</i> , 2012, 276, 52-61.	3.2	18
65	Stand-level drivers of tree-species diversification in Mediterranean pine forests after abandonment of traditional practices. <i>Forest Ecology and Management</i> , 2015, 353, 107-117.	3.2	18
66	Modelling the effect of climate-induced changes in recruitment and juvenile growth on mixed-forest dynamics: The case of montane-subalpine Pyrenean ecotones. <i>Ecological Modelling</i> , 2015, 313, 84-93.	2.5	18
67	Tree Species Are Differently Impacted by Cumulative Drought Stress and Present Higher Growth Synchrony in Dry Places. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	18
68	Estimation and Uncertainty of the Mixing Effects on Scots Pine-European Beech Productivity from National Forest Inventories Data. <i>Forests</i> , 2018, 9, 518.	2.1	15
69	Crown bulk density and fuel moisture dynamics in <i>Pinus pinaster</i> stands are neither modified by thinning nor captured by the Forest Fire Weather Index. <i>Annals of Forest Science</i> , 2017, 74, 1.	2.0	14
70	Has COVID-19 halted winter-spring wildfires in the Mediterranean? Insights for wildfire science under a pandemic context. <i>Science of the Total Environment</i> , 2021, 765, 142793.	8.0	14
71	A general method for the classification of forest stands using species composition and vertical and horizontal structure. <i>Annals of Forest Science</i> , 2019, 76, 1.	2.0	13
72	Regeneration Patterns in Mixed-Species Stands. <i>Managing Forest Ecosystems</i> , 2018, , 103-130.	0.9	12

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73	Examination of aboveground attributes to predict belowground biomass of young trees. <i>Forest Ecology and Management</i> , 2022, 505, 119942.	3.2	12
74	Relative size to resprouters determines post-fire recruitment of non-serotinous pines. <i>Forest Ecology and Management</i> , 2018, 429, 300-307.	3.2	8
75	Temporal dimension of forest vulnerability to fire along successional trajectories. <i>Journal of Environmental Management</i> , 2019, 248, 109301.	7.8	8
76	Quantifying the effect of nitrogen-induced physiological and structural changes on poplar growth using a carbon-balance model. <i>Tree Physiology</i> , 2011, 31, 381-390.	3.1	7
77	Contrasting patterns of tree species mixture effects on wood $\delta^{13}C$ along an environmental gradient. <i>European Journal of Forest Research</i> , 2020, 139, 229-245.	2.5	7
78	Maximum height of mountain forests abruptly decreases above an elevation breakpoint. <i>GIScience and Remote Sensing</i> , 2021, 58, 442-454.	5.9	7
79	A broad-scale analysis of the main factors determining the current structure and understory composition of Catalanian sub-alpine ( <i>Pinus uncinata</i> Ram.) forests. <i>Forestry</i> , 2012, 85, 225-236.	2.3	6
80	Spatial and temporal variations of overstory and understory fuels in Mediterranean landscapes. <i>Forest Ecology and Management</i> , 2021, 490, 119094.	3.2	6
81	Forest structure of Mediterranean yew ( <i>Taxus baccata</i> L.) populations and neighbor effects on juvenile yew performance in the NE Iberian Peninsula. <i>Forest Systems</i> , 2015, 24, e042.	0.3	6
82	Can bioplastic or woodchip groundcover replace herbicides or plastic mulching for valuable broadleaf plantations in Mediterranean areas?. <i>New Forests</i> , 2017, 48, 415-429.	1.7	4
83	Local characteristics of the standing genetic diversity of European beech with high within-region differentiation at the eastern part of the range. <i>Canadian Journal of Forest Research</i> , 0, , .	1.7	4
84	Soil erodibility in European mountain beech forests. <i>Canadian Journal of Forest Research</i> , 2021, 51, 1846-1855.	1.7	4
85	Regional climate moderately influences species-mixing effect on tree growth-climate relationships and drought resistance for beech and pine across Europe. <i>Forest Ecology and Management</i> , 2022, 520, 120317.	3.2	4
86	Climate-Smart Silviculture in Mountain Regions. <i>Managing Forest Ecosystems</i> , 2022, , 263-315.	0.9	3
87	Assessing post-storm forest dynamics in the pyrenees using high-resolution LIDAR data and aerial photographs. <i>Journal of Mountain Science</i> , 2015, 12, 841-853.	2.0	1
88	Elevation modulates the phenotypic responses to light of four co-occurring Pyrenean forest tree species. <i>Annals of Forest Science</i> , 2019, 76, 1.	2.0	1
89	Response to "Letter to the editor regarding Rodrigues et al. 2020: Is COVID-19 halting wildfires in the Mediterranean? Insights for wildfire science under a pandemic context". <i>Science of the Total Environment</i> , 2021, 766, 143187.	8.0	1
90	Dynamics and Management of Western Mediterranean Pinewoods. <i>Managing Forest Ecosystems</i> , 2021, , 659-677.	0.9	0

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91	Correction: Soil erodibility in European mountain beech forests. Canadian Journal of Forest Research, 2022, 52, 135-135.	1.7	0