LluÃ-s Coll

List of Publications by Year
in descending order

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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	Climate-Smart Silviculture in Mountain Regions. Managing Forest Ecosystems, 2022, , 263-315.	0.9	3
2	Examination of aboveground attributes to predict belowground biomass of young trees. Forest Ecology and Management, 2022, 505, 119942.	3.2	12
3	Correction: Soil erodibility in European mountain beech forests. Canadian Journal of Forest Research, 2022, 52, 135-135.	1.7	0
4	Regional climate moderately influences species-mixing effect on tree growth-climate relationships and drought resistance for beech and pine across Europe. Forest Ecology and Management, 2022, 520, 120317.	3.2	4
5	Unravelling the effect of species mixing on water use and drought stress in Mediterranean forests: A modelling approach. Agricultural and Forest Meteorology, 2021, 296, 108233.	4.8	30
6	Has COVID-19 halted winter-spring wildfires in the Mediterranean? Insights for wildfire science under a pandemic context. Science of the Total Environment, 2021, 765, 142793.	8.0	14
7	Response to â€˜Letter to the editor regarding Rodrigues et al. 2020: Is COVID-19 halting wildfires in the Mediterranean? Insights for wildfire science under a pandemic contextâ€™. Science of the Total Environment, 2021, 766, 143187.	8.0	1
8	Maximum height of mountain forests abruptly decreases above an elevation breakpoint. GIScience and Remote Sensing, 2021, 58, 442-454.	5.9	7
9	Spatial and temporal variations of overstory and understory fuels in Mediterranean landscapes. Forest Ecology and Management, 2021, 490, 119094.	3.2	6
10	Ecosystem services provision by Mediterranean forests will be compromised above 2â„ƒ warming. Global Change Biology, 2021, 27, 4210-4222.	9.5	25
11	Soil erodibility in European mountain beech forests. Canadian Journal of Forest Research, 2021, 51, 1846-1855.	1.7	4
12	Forest expansion in mountain protected areas: Trends and consequences for the landscape. Landscape and Urban Planning, 2021, 216, 104240.	7.5	24
13	Dynamics and Management of Western Mediterranean Pinewoods. Managing Forest Ecosystems, 2021, , 659-677.	0.9	0
14	Contrasting patterns of tree species mixture effects on wood Î´13C along an environmental gradient. European Journal of Forest Research, 2020, 139, 229-245.	2.5	7
15	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
16	Future trade-offs and synergies among ecosystem services in Mediterranean forests under global change scenarios. Ecosystem Services, 2020, 45, 101174.	5.4	68
17	Tree Species Are Differently Impacted by Cumulative Drought Stress and Present Higher Growth Synchrony in Dry Places. Frontiers in Forests and Global Change, 2020, 3, .	2.3	18
18	Species mixing reduces drought susceptibility of Scots pine (Pinus sylvestris L.) and oak (Quercus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Forest Ecology and Management, 2020, 461, 117908.	3.2	65

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19	Temporal dimension of forest vulnerability to fire along successional trajectories. Journal of Environmental Management, 2019, 248, 109301.	7.8	8
20	Elevation modulates the phenotypic responses to light of four co-occurring Pyrenean forest tree species. Annals of Forest Science, 2019, 76, 1.	2.0	1
21	A general method for the classification of forest stands using species composition and vertical and horizontal structure. Annals of Forest Science, 2019, 76, 1.	2.0	13
22	Resistance, Resilience or Change: Post-disturbance Dynamics of Boreal Forests After Insect Outbreaks. Ecosystems, 2019, 22, 1886-1901.	3.4	42
23	The use of scenarios and models to evaluate the future of nature values and ecosystem services in Mediterranean forests. Regional Environmental Change, 2019, 19, 415-428.	2.9	20
24	Trajectory analysis in community ecology. Ecological Monographs, 2019, 89, e01350.	5.4	74
25	Modelling approaches for mixed forests dynamics prognosis. Research gaps and opportunities. Forest Systems, 2019, 28, eR002.	0.3	29
26	Effects of crown architecture and stand structure on light absorption in mixed and monospecific Fagus sylvatica and Pinus sylvestris forests along a productivity and climate gradient through Europe. Journal of Ecology, 2018, 106, 746-760.	4.0	125
27	Forest management for adaptation to climate change in the Mediterranean basin: A synthesis of evidence. Forest Ecology and Management, 2018, 407, 16-22.	3.2	95
28	Climate Change Could Negate Positive Tree Diversity Effects on Forest Productivity: A Study Across Five Climate Types in Spain and Canada. Ecosystems, 2018, 21, 960-970.	3.4	43
29	Knowledge gaps about mixed forests: What do European forest managers want to know and what answers can science provide?. Forest Ecology and Management, 2018, 407, 106-115.	3.2	90
30	Regeneration Patterns in Mixed-Species Stands. Managing Forest Ecosystems, 2018, , 103-130.	0.9	12
31	Estimation and Uncertainty of the Mixing Effects on Scots Pineâ€"European Beech Productivity from National Forest Inventories Data. Forests, 2018, 9, 518.	2.1	15
32	Relative size to resprouters determines post-fire recruitment of non-serotinous pines. Forest Ecology and Management, 2018, 429, 300-307.	3.2	8
33	Species proportions by area in mixtures of Scots pine (Pinus sylvestris L.) and European beech (Fagus) Tj ETQq1 1 0.784314 rgBT /Ove	2.5	29
34	Climate influences on the maximum size-density relationship in Scots pine (Pinus sylvestris L.) and European beech (Fagus sylvatica L.) stands. Forest Ecology and Management, 2017, 385, 295-307.	3.2	59
35	Can bioplastic or woodchip groundcover replace herbicides or plastic mulching for valuable broadleaf plantations in Mediterranean areas?. New Forests, 2017, 48, 415-429.	1.7	4
36	Managing stand density to enhance the adaptability of Scots pine stands to climate change: A modelling approach. Ecological Modelling, 2017, 356, 141-150.	2.5	55

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37	Species interactions increase the temporal stability of community productivity in Pinus sylvestrisâ€“Fagus sylvatica mixtures across Europe. Journal of Ecology, 2017, 105, 1032-1043.	4.0	140
38	Predicting the spatial and temporal dynamics of species interactions in Fagus sylvatica and Pinus sylvestris forests across Europe. Forest Ecology and Management, 2017, 405, 112-133.	3.2	40
39	EuMIXFOR empirical forest mensuration and ring width data from pure and mixed stands of Scots pine (Pinus sylvestris L.) and European beech (Fagus sylvatica L.) through Europe. Annals of Forest Science, 2017, 74, 1.	2.0	27
40	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
41	Landâ€use legacies rather than climate change are driving the recent upward shift of the mountain tree line in the <scp>P</scp>yrenees. Global Ecology and Biogeography, 2016, 25, 263-273.	5.8	123
42	Diversifying subâ€Mediterranean pinewoods with oak species in a context of assisted migration: responses to local climate and light environment. Applied Vegetation Science, 2016, 19, 254-266.	1.9	19
43	Mixing of Scots pine (Pinus sylvestris L.) and European beech (Fagus sylvatica L.) enhances structural heterogeneity, and the effect increases with water availability. Forest Ecology and Management, 2016, 373, 149-166.	3.2	115
44	Tree light capture and spatial variability of understory light increase with species mixing and tree size heterogeneity. Canadian Journal of Forest Research, 2016, 46, 968-977.	1.7	26
45	Species-specific and generic biomass equations for seedlings and saplings of European tree species. European Journal of Forest Research, 2016, 135, 313-329.	2.5	67
46	Assessing the persistence capacity of communities facing natural disturbances on the basis of species response traits. Ecological Indicators, 2016, 66, 76-85.	6.3	24
47	Recruitment patterns of four tree species along elevation gradients in Mediterranean mountains: Not only climate matters. Forest Ecology and Management, 2016, 360, 287-296.	3.2	32
48	Unraveling the relative importance of factors driving post-fire regeneration trajectories in non-serotinous Pinus nigra forests. Forest Ecology and Management, 2016, 361, 13-22.	3.2	42
49	Assessing post-storm forest dynamics in the pyrenees using high-resolution LIDAR data and aerial photographs. Journal of Mountain Science, 2015, 12, 841-853.	2.0	1
50	Different Factors for Different Causes: Analysis of the Spatial Aggregations of Fire Ignitions in Catalonia (Spain). Risk Analysis, 2015, 35, 1197-1209.	2.7	31
51	Stand-level drivers of tree-species diversification in Mediterranean pine forests after abandonment of traditional practices. Forest Ecology and Management, 2015, 353, 107-117.	3.2	18
52	Combining aerial LiDAR and multispectral imagery to assess postfire regeneration types in a Mediterranean forest. Canadian Journal of Forest Research, 2015, 45, 856-866.	1.7	22
53	Herbivory and seedling establishment in Pyrenean forests: Influence of micro- and meso-habitat factors on browsing pressure. Forest Ecology and Management, 2015, 342, 103-111.	3.2	27
54	BAAD: a Biomass And Allometry Database for woody plants. Ecology, 2015, 96, 1445-1445.	3.2	122

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55	Survival vs. growth trade-off in early recruitment challenges global warming impacts on Mediterranean mountain trees. Perspectives in Plant Ecology, Evolution and Systematics, 2015, 17, 369-378.	2.7	27
56	Coupling a water balance model with forest inventory data to predict drought stress: the role of forest structural changes vs. climate changes. Agricultural and Forest Meteorology, 2015, 213, 77-90.	4.8	55
57	Growth and yield of mixed versus pure stands of Scots pine (Pinus sylvestris L.) and European beech (Fagus sylvatica L.) analysed along a productivity gradient through Europe. European Journal of Forest Research, 2015, 134, 927-947.	2.5	257
58	Modelling the effect of climate-induced changes in recruitment and juvenile growth on mixed-forest dynamics: The case of montaneâ€“subalpine Pyrenean ecotones. Ecological Modelling, 2015, 313, 84-93.	2.5	18
59	Forest structure of Mediterranean yew (Taxus baccata L.) populations and neighbor effects on juvenile yew performance in the NE Iberian Peninsula. Forest Systems, 2015, 24, e042.	0.3	6
60	Uncoupled spatiotemporal patterns of seed dispersal and regeneration in Pyrenean silver fir populations. Forest Ecology and Management, 2014, 319, 18-28.	3.2	23
61	Viewing forests through the lens of complex systems science. Ecosphere, 2014, 5, 1-23.	2.2	182
62	European Mixed Forests: definition and research perspectives. Forest Systems, 2014, 23, 518.	0.3	107
63	Unraveling the role of light and biotic interactions on seedling performance of four Pyrenean species along environmental gradients. Forest Ecology and Management, 2013, 303, 25-34.	3.2	21
64	Architecture, cover and light interception by bramble (Rubus fruticosus): a common understorey weed in temperate forests. Forestry, 2013, 86, 39-46.	2.3	26
65	A broad-scale analysis of the main factors determining the current structure and understory composition of Catalonian sub-alpine (Pinus uncinata Ram.) forests. Forestry, 2012, 85, 225-236.	2.3	6
66	Fine root seasonal dynamics, plasticity, and mycorrhization in 2 coexisting Mediterranean oaks with contrasting aboveground phenology. Ecoscience, 2012, 19, 238-245.	1.4	21
67	Understory light predictions in mixed conifer mountain forests: Role of aspect-induced variation in crown geometry and openness. Forest Ecology and Management, 2012, 276, 52-61.	3.2	18
68	History matters: Previous land use changes determine post-fire vegetation recovery in forested Mediterranean landscapes. Forest Ecology and Management, 2012, 279, 121-127.	3.2	47
69	Valuing acorn dispersal and resprouting capacity ecological functions to ensure Mediterranean forest resilience after fire. European Journal of Forest Research, 2012, 131, 835-844.	2.5	25
70	Tree dynamics and co-existence in the montane-sub-alpine ecotone: the role of different light-induced strategies. Journal of Vegetation Science, 2011, 22, 1049-1061.	2.2	42
71	Nitrogen forms affect root structure and water uptake in the hybrid poplar. New Forests, 2011, 42, 347-362.	1.7	26
72	Predicting understory maximum shrubs cover using altitude and overstory basal area in different Mediterranean forests. European Journal of Forest Research, 2011, 130, 55-65.	2.5	42

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73	Forest vegetation management under debate: an introduction. European Journal of Forest Research, 2011, 130, 1-5.	2.5	38
74	Quantifying the effect of nitrogen-induced physiological and structural changes on poplar growth using a carbon-balance model. Tree Physiology, 2011, 31, 381-390.	3.1	7
75	Landâ€use changes as major drivers of mountain pine (Pinus uncinata Ram.) expansion in the Pyrenees. Global Ecology and Biogeography, 2010, 19, 632-641.	5.8	72
76	Wind and snow damage in the Pyrenees pine forests: effect of stand attributes and location. Silva Fennica, 2010, 44, .	1.3	32
77	Resource and nonâ€resource root competition effects of grasses on earlyâ€versus lateâ€successional trees. Journal of Ecology, 2009, 97, 548-554.	4.0	49
78	Facilitation in plant communities: the past, the present, and the future. Journal of Ecology, 2008, 96, 18-34.	4.0	788
79	Linking multiple-level tree traits with biomass accumulation in native tree species used for reforestation in Panama. Trees - Structure and Function, 2008, 22, 337-349.	1.9	27
80	Root architecture and allocation patterns of eight native tropical species with different successional status used in open-grown mixed plantations in Panama. Trees - Structure and Function, 2008, 22, 585-596.	1.9	44
81	Six-year time course of light-use efficiency, carbon gain and growth of beech saplings (Fagus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 1073-1082.	3.1	25
82	Growth, allocation and leaf gas exchanges of hybrid poplar plants in their establishment phase on previously forested sites: effect of different vegetation management techniques. Annals of Forest Science, 2007, 64, 275-285.	2.0	45
83	The role of below-ground competition during early stages of secondary succession: the case of 3-year-old Scots pine (Pinus sylvestris L.) seedlings in an abandoned grassland. Oecologia, 2006, 148, 373-383.	2.0	59
84	Effects of tree size and position on pipe model ratios in Scots pine. Canadian Journal of Forest Research, 2005, 35, 1294-1304.	1.7	40
85	Plasticity in growth, biomass allocation and root morphology in beech seedlings as induced by irradiance and herbaceous competition. Annals of Forest Science, 2005, 62, 51-60.	2.0	88
86	Morphological and physiological responses of beech (Fagus sylvatica) seedlings to grass-induced belowground competition. Tree Physiology, 2004, 24, 45-54.	3.1	71
87	Hydraulic architecture of leaf blades: where is the main resistance?. Plant, Cell and Environment, 2004, 27, 1257-1267.	5.7	159
88	Competition for water between beech seedlings and surrounding vegetation in different light and vegetation composition conditions. Annals of Forest Science, 2003, 60, 593-600.	2.0	83
89	Unraveling the Effects of Plant Hydraulics on Stomatal Closure during Water Stress in Walnut. Plant Physiology, 2002, 128, 282-290.	4.8	308
90	Unraveling the effects of plant hydraulics on stomatal closure during water stress in walnut. Plant Physiology, 2002, 128, 282-90.	4.8	59

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91	Local characteristics of the standing genetic diversity of European beech with high within-region differentiation at the eastern part of the range. Canadian Journal of Forest Research, 0, , .	1.7	4