MartÃ-n de Luis

List of Publications by Year
in descending order

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115 papers	7,261 citations	36203 51 h-index	60497 81 g-index
123 all docs	123 docs citations	123 times ranked	6113 citing authors

#	Article	IF	Citations
1	Woody biomass production lags stem-girth increase by over one month in coniferous forests. Nature Plants, 2015, 1, 15160.	4.7	294
2	Forest resilience to drought varies across biomes. Global Change Biology, 2018, 24, 2143-2158.	4.2	267
3	Impacts of drought at different time scales on forest growth across a wide climatic gradient in north-eastern Spain. Agricultural and Forest Meteorology, 2011, 151, 1800-1811.	1.9	239
4	Spatial analysis of rainfall trends in the region of Valencia (east Spain). International Journal of Climatology, 2000, 20, 1451-1469.	1.5	220
5	Precipitation concentration changes in Spain 1946â€“2005. Natural Hazards and Earth System Sciences, 2011, 11, 1259-1265.	1.5	207
6	Bioclimatology of beech (Fagus sylvatica L.) in the Eastern Alps: spatial and altitudinal climatic signals identified through a treeâ€ring network. Journal of Biogeography, 2007, 34, 1873-1892.	1.4	175
7	Factors influencing fire behaviour in shrublands of different stand ages and the implications for using prescribed burning to reduce wildfire risk. Journal of Environmental Management, 2002, 65, 199-208.	3.8	159
8	Tree-ring variation, wood formation and phenology of beech (Fagus sylvatica) from a representative site in Slovenia, SE Central Europe. Trees - Structure and Function, 2008, 22, 749-758.	0.9	151
9	Changes in seasonal precipitation in the Iberian Peninsula during 1946â€“2005. Global and Planetary Change, 2010, 74, 27-33.	1.6	147
10	Monthly precipitation trends on the Mediterranean fringe of the Iberian Peninsula during the secondâ€half of the twentieth century (1951â€“2000). International Journal of Climatology, 2009, 29, 1415-1429.	1.5	144
11	drought patterns in the Mediterranean area: the Valencia region (eastern Spain). Climate Research, 2004, 26, 5-15.	0.4	139
12	A new tool for monthly precipitation analysis in Spain: MOPREDAS database (monthly precipitation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	137
13	Phenological variation in xylem and phloem formation in Fagus sylvatica from two contrasting sites. Agricultural and Forest Meteorology, 2013, 180, 142-151.	1.9	136
14	Seasonal Dynamics of Wood Formation in Pinus Halepensis from Dry and Semi-Arid Ecosystems in Spain. IAWA Journal, 2007, 28, 389-404.	2.7	135
15	A review of daily soil erosion in Western Mediterranean areas. Catena, 2007, 71, 193-199.	2.2	134
16	INTRA-ANNUAL DENSITY FLUCTUATIONS IN TREE RINGS: HOW, WHEN, WHERE, AND WHY?. IAWA Journal, 2016, 37, 232-259.	2.7	119
17	Climatic trends, disturbances and short-term vegetation dynamics in a Mediterranean shrubland. Forest Ecology and Management, 2001, 147, 25-37.	1.4	117
18	Photoperiod and temperature as dominant environmental drivers triggering secondary growth resumption in Northern Hemisphere conifers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20645-20652.	3.3	113

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19	Seasonal precipitation trends in the Mediterranean Iberian Peninsula in second half of 20th century. International Journal of Climatology, 2009, 29, 1312-1323.	1.5	107
20	Climate factors promoting intra-annual density fluctuations in Aleppo pine (Pinus halepensis) from semiarid sites. Dendrochronologia, 2011, 29, 163-169.	1.0	103
21	Plasticity in Dendroclimatic Response across the Distribution Range of Aleppo Pine (Pinus halepensis). PLoS ONE, 2013, 8, e83550.	1.1	100
22	Fuel characteristics and fire behaviour in mature Mediterranean gorse shrublands. International Journal of Wildland Fire, 2004, 13, 79.	1.0	98
23	Evidence for the spatial segregation hypothesis: a test with nineâ€year survivorship data in a Mediterranean shrubland. Ecology, 2010, 91, 2110-2120.	1.5	96
24	Variation in xylem vulnerability to embolism in European beech from geographically marginal populations. Tree Physiology, 2018, 38, 173-185.	1.4	93
25	Size mediated climateâ€“growth relationships in Pinus halepensis and Pinus pinea. Trees - Structure and Function, 2009, 23, 1065-1073.	0.9	90
26	Fireâ€induced deforestation in droughtâ€prone Mediterranean forests: drivers and unknowns from leaves to communities. Ecological Monographs, 2018, 88, 141-169.	2.4	90
27	Cambial activity, wood formation and sapling survival of Pinus halepensis exposed to different irrigation regimes. Forest Ecology and Management, 2011, 262, 1630-1638.	1.4	89
28	Climate-change-driven growth decline of European beech forests. Communications Biology, 2022, 5, 163.	2.0	89
29	Effects of fire and torrential rainfall on erosion in a Mediterranean gorse community. Land Degradation and Development, 2003, 14, 203-213.	1.8	87
30	Temporal shifts in leaf phenology of beech (Fagus sylvatica) depend on elevation. Trees - Structure and Function, 2012, 26, 1091-1100.	0.9	84
31	Contribution of the largest events to suspended sediment transport across the USA. Land Degradation and Development, 2010, 21, 83-91.	1.8	81
32	Plastic and locally adapted phenology in cambial seasonality and production of xylem and phloem cells in Picea abies from temperate environments. Tree Physiology, 2014, 34, 869-881.	1.4	79
33	Evaluation of forest cover change using remote sensing techniques and landscape metrics in Moncayo Natural Park (Spain). Applied Geography, 2015, 62, 247-255.	1.7	78
34	Resist, recover or both? Growth plasticity in response to drought is geographically structured and linked to intraspecific variability in Pinus pinaster. Journal of Biogeography, 2018, 45, 1126-1139.	1.4	77
35	Drought legacies are short, prevail in dry conifer forests and depend on growth variability. Journal of Ecology, 2020, 108, 2473-2484.	1.9	74
36	Is rainfall erosivity increasing in the Mediterranean Iberian Peninsula?. Land Degradation and Development, 2010, 21, 139-144.	1.8	72

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37	Structure and Function of Intraâ€“Annual Density Fluctuations: Mind the Gaps. Frontiers in Plant Science, 2016, 7, 595.	1.7	72
38	Desiccation and Mortality Dynamics in Seedlings of Different European Beech (Fagus sylvatica L.) Populations under Extreme Drought Conditions. Frontiers in Plant Science, 2016, 7, 751.	1.7	72
39	Chilling and forcing temperatures interact to predict the onset of wood formation in Northern Hemisphere conifers. Global Change Biology, 2019, 25, 1089-1105.	4.2	72
40	SPREAD: a high-resolution daily gridded precipitation dataset for Spain â€“ an extreme events frequency and intensity overview. Earth System Science Data, 2017, 9, 721-738.	3.7	70
41	Continuously missing outer rings in woody plants at their distributional margins. Dendrochronologia, 2012, 30, 213-222.	1.0	69
42	Daily rainfall trend in the Valencia Region of Spain. Theoretical and Applied Climatology, 2003, 75, 117-130.	1.3	66
43	Climatic signals in tree-ring widths and wood structure of Pinus halepensis in contrasted environmental conditions. Trees - Structure and Function, 2013, 27, 927-936.	0.9	65
44	Spatial distribution of seasonal rainfall trends in a western Mediterranean area. International Journal of Climatology, 2001, 21, 843-860.	1.5	64
45	EARLY TO RISE MAKES A PLANT HEALTHY, WEALTHY, AND WISE. Ecology, 2008, 89, 3061-3071.	1.5	63
46	Spatio-temporal assessment of beech growth in relation to climate extremes in Slovenia â€“ An integrated approach using remote sensing and tree-ring data. Agricultural and Forest Meteorology, 2020, 287, 107925.	1.9	61
47	Spatioâ€temporal variability of daily precipitation concentration in Spain based on a highâ€resolution gridded data set. International Journal of Climatology, 2018, 38, e518.	1.5	59
48	Leaf Î´¹⁸O of remaining trees is affected by thinning intensity in a semiarid pine forest. Plant, Cell and Environment, 2011, 34, 1009-1019.	2.8	58
49	Climatic Signals from Intra-annual Density Fluctuation Frequency in Mediterranean Pines at a Regional Scale. Frontiers in Plant Science, 2016, 7, 579.	1.7	58
50	Age, climate and intra-annual density fluctuations in Pinus halepensis in Spain. IAWA Journal, 2013, 34, 459-474.	2.7	54
51	Growing season and radial growth predicted for Fagus sylvatica under climate change. Climatic Change, 2019, 153, 181-197.	1.7	54
52	Plasticity in variation of xylem and phloem cell characteristics of Norway spruce under different local conditions. Frontiers in Plant Science, 2015, 6, 730.	1.7	53
53	Which matters most for the formation of intra-annual density fluctuations in Pinus pinaster: age or size?. Trees - Structure and Function, 2015, 29, 237-245.	0.9	52
54	Trends in seasonal precipitation and temperature in Slovenia during 1951â€“2007. Regional Environmental Change, 2014, 14, 1801-1810.	1.4	51

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55	A regional analysis of the effects of largest events on soil erosion. Catena, 2012, 95, 85-90.	2.2	49
56	When, How and How Much: Gender-specific Resource-use Strategies in the Dioecious Tree Juniperus thurifera. Annals of Botany, 2006, 98, 885-889.	1.4	48
57	Reconstructing dry and wet summers in SE Slovenia from oak tree-ring series. International Journal of Biometeorology, 2008, 52, 607-615.	1.3	48
58	Spatial variability in large-scale and regional atmospheric drivers of Pinus halepensis growth in eastern Spain. Agricultural and Forest Meteorology, 2011, 151, 1106-1119.	1.9	48
59	Living on the Edge: Contrasted Wood-Formation Dynamics in Fagus sylvatica and Pinus sylvestris under Mediterranean Conditions. Frontiers in Plant Science, 2016, 7, 370.	1.7	47
60	An R package for daily precipitation climate series reconstruction. Environmental Modelling and Software, 2017, 89, 190-195.	1.9	47
61	Annual Cambial Rhythm in Pinus halepensis and Pinus sylvestris as Indicator for Climate Adaptation. Frontiers in Plant Science, 2016, 07, 1923.	1.7	46
62	Effects of the largest daily events on total soil erosion by rainwater. An analysis of the USLE database. Earth Surface Processes and Landforms, 2009, 34, 2070-2077.	1.2	45
63	Post-fire vegetation succession inÂMediterranean gorse shrublands. Acta Oecologica, 2006, 30, 54-61.	0.5	44
64	A 548-Year Tree-Ring Chronology of Oak (Quercus spp.) for Southeast Slovenia and its Significance as a Dating Tool and Climate Archive. Tree-Ring Research, 2008, 64, 3-15.	0.4	43
65	Drought Sensitiveness on Forest Growth in Peninsular Spain and the Balearic Islands. Forests, 2018, 9, 524.	0.9	43
66	Precipitation trends in Spanish hydrological divisions, 1946â€“2005. Climate Research, 2010, 43, 215-228.	0.4	42
67	Common climatic signals affecting oak tree-ring growth in SE Central Europe. Trees - Structure and Function, 2014, 28, 1267-1277.	0.9	41
68	Tree-ring-based drought reconstruction in the Iberian Range (east of Spain) since 1694. International Journal of Biometeorology, 2016, 60, 361-372.	1.3	40
69	Summer drought and spring frost, but not their interaction, constrain European beech and Silver fir growth in their southern distribution limits. Agricultural and Forest Meteorology, 2019, 278, 107695.	1.9	40
70	Temporal and spatial differentiation in seedling emergence may promote species coexistence in Mediterranean fireâ€prone ecosystems. Ecography, 2008, 31, 620-629.	2.1	39
71	STEAD: a high-resolution daily gridded temperature dataset for Spain. Earth System Science Data, 2019, 11, 1171-1188.	3.7	39
72	Frequency and variability of missing tree rings along the stems of Pinus halepensis and Pinus pinea from a semiarid site in SE Spain. Journal of Arid Environments, 2011, 75, 494-498.	1.2	37

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73	Factors driving growth responses to drought in Mediterranean forests. European Journal of Forest Research, 2012, 131, 1797-1807.	1.1	37
74	Recent trends reveal decreasing intensity of daily precipitation in Spain. International Journal of Climatology, 2018, 38, 4211-4224.	1.5	34
75	Fire and torrential rainfall: effects on the perennial grass Brachypodium retusum. Plant Ecology, 2004, 173, 225-232.	0.7	33
76	Do variations in leaf phenology affect radial growth variations in Fagus sylvatica?. International Journal of Biometeorology, 2015, 59, 1127-1132.	1.3	33
77	Precipitation is not limiting for xylem formation dynamics and vessel development in European beech from two temperate forest sites. Tree Physiology, 2018, 38, 186-197.	1.4	33
78	Linking tree-ring growth and satellite-derived gross primary growth in multiple forest biomes. Temporal-scale matters. Ecological Indicators, 2020, 108, 105753.	2.6	33
79	Fire and torrential rainfall: effects on seedling establishment in Mediterranean gorse shrublands. International Journal of Wildland Fire, 2005, 14, 413.	1.0	30
80	Summer drought reconstruction in northeastern Spain inferred from a tree ring latewood network since 1734. Geophysical Research Letters, 2017, 44, 8492-8500.	1.5	29
81	Challenges for growth of beech and co-occurring conifers in a changing climate context. Dendrochronologia, 2018, 52, 1-10.	1.0	29
82	Factors controlling seedling germination after fire in Mediterranean gorse shrublands. Implications for fire prescription. Journal of Environmental Management, 2005, 76, 159-166.	3.8	27
83	Anatomical characteristics and hydrologic signals in tree-rings of oaks (Quercus robur L.). Trees - Structure and Function, 2013, 27, 1669-1680.	0.9	27
84	Missing Rings in Pinus halepensis â€“ The Missing Link to Relate the Tree-Ring Record to Extreme Climatic Events. Frontiers in Plant Science, 2016, 7, 727.	1.7	27
85	MISSING AND DARK RINGS ASSOCIATED WITH DROUGHT IN PINUS HALEPENSIS. IAWA Journal, 2016, 37, 260-274.	2.7	27
86	Assessing components of a competition index to predict growth in an even-aged Pinus nigra stand. New Forests, 1998, 15, 223-242.	0.7	26
87	Temperature variability in the Iberian Range since 1602 inferred from tree-ring records. Climate of the Past, 2017, 13, 93-105.	1.3	24
88	Soil moisture and its role in growth-climate relationships across an aridity gradient in semiarid Pinus halepensis forests. Science of the Total Environment, 2017, 574, 982-990.	3.9	23
89	Spatially based reconstruction of daily precipitation instrumental data series. Climate Research, 2017, 73, 167-186.	0.4	23
90	LACK OF ANNUAL PERIODICITY IN CAMBIAL PRODUCTION OF PHLOEM IN TREES FROM MEDITERRANEAN AREAS. IAWA Journal, 2016, 37, 349-364.	2.7	21

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91	Contrasting Patterns of Tree Growth of Mediterranean Pine Species in the Iberian Peninsula. Forests, 2018, 9, 416.	0.9	21
92	A global perspective on the climateâ€driven growth synchrony of neighbouring trees. Global Ecology and Biogeography, 2020, 29, 1114-1125.	2.7	19
93	Rogation ceremonies: a key to understanding past drought variability in northeastern Spain since 1650. Climate of the Past, 2019, 15, 1647-1664.	1.3	15
94	Transition Dates from Earlywood to Latewood and Early Phloem to Late Phloem in Norway Spruce. Forests, 2021, 12, 331.	0.9	15
95	Spatial variability of precipitation in Spain. Regional Environmental Change, 2014, 14, 1743-1749.	1.4	14
96	Tree growth response to drought partially explains regionalâ€scale growth and mortality patterns in Iberian forests. Ecological Applications, 2022, 32, e2589.	1.8	13
97	SLOCLIM: a high-resolution daily gridded precipitation and temperature dataset for Slovenia. Earth System Science Data, 2021, 13, 3577-3592.	3.7	12
98	Hydrological response of Mediterranean gorse shrubland under extreme rainfall simulation event. Zeitschrift FÃ¼r Geomorphologie, 2004, 48, 293-304.	0.3	12
99	Spatial patterns of climateâ€“growth relationships across species distribution as a forest management tool in Moncayo Natural Park (Spain). European Journal of Forest Research, 2019, 138, 299-312.	1.1	10
100	Modeling tree-growth: Assessing climate suitability of temperate forests growing in Moncayo Natural Park (Spain). Forest Ecology and Management, 2019, 435, 128-137.	1.4	9
101	Influence of Soil Moisture vs. Climatic Factors in Pinus Halepensis Growth Variability in Spain: A Study with Remote Sensing and Modeled Data. Remote Sensing, 2021, 13, 757.	1.8	9
102	High-Resolution Temperature Variability Reconstructed from Black Pine Tree Ring Densities in Southern Spain. Atmosphere, 2020, 11, 748.	1.0	8
103	A resprouter herb reduces negative density-dependent effects among neighboring seeders after fire. Acta Oecologica, 2012, 38, 17-23.	0.5	7
104	Tree-Ring Chronology of Pedunculate Oak (Quercus robur) and its Potential for Development of Dendrochronological Research in Croatia. Drvna Industrija, 2014, 65, 129-137.	0.3	7
105	Intra-seasonal trends in phloem traits in Pinus spp. from drought-prone environments. IAWA Journal, 2020, 41, 219-235.	2.7	7
106	Hydroclimatic variability in Santiago (Chile) since the 16th century. International Journal of Climatology, 2021, 41, E2015.	1.5	7
107	When Density Matters: The Spatial Balance between Early and Latewood. Forests, 2021, 12, 818.	0.9	6
108	Estudio espacial y temporal de las tendencias de la lluvia en la Comunidad Valenciana (1961-1990). Cuadernos De Investigacion Geografica, 0, 24, 7-24.	0.6	6

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109	Predicting germination of Medicago sativa and Onobrychis viciifolia seeds by using image analysis. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2014, 38, 615-623.	0.8	5
110	Rain in the desert; A precipitation reconstruction of the last 156 years inferred from Aleppo Pine in the Bardenas Natural Park, Spain. Dendrochronologia, 2020, 64, 125759.	1.0	2
111	Modelling dendro-anthracological parameters with dendrochronological reference datasets: Interrogating the applicability of anthraco-typology to assess Aleppo pine (Pinus halepensis Miller) wood management from archaeological charcoal fragments. Journal of Archaeological Science, 2020, 124, 105265.	1.2	2
112	Reply to Elmendorf and Ettinger: Photoperiod plays a dominant and irreplaceable role in triggering secondary growth resumption. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32865-32867.	3.3	2
113	Seedling emergence of tall fescue and wheatgrass under different climate conditions in Iran. Spanish Journal of Agricultural Research, 2012, 10, 183.	0.3	2
114	AproximaciÃ³n metodolÃ³gica al anÃ¡lisis de la estructura de las tendencias de lluvia. Geographicalia, 2016, , 53.	0.1	0
115	Climate and population: risk exposure to precipitation concentration in mainland Spain (1950-2010). Boletin De La Asociacion De Geografos Espanoles, 2020, , .	0.2	0