MartÃ-n de Luis

List of Publications by Year
in descending order

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	Tree growth response to drought partially explains regionalâ€scale growth and mortality patterns in Iberian forests. Ecological Applications, 2022, 32, e2589.	1.8	13
2	Climate-change-driven growth decline of European beech forests. Communications Biology, 2022, 5, 163.	2.0	89
3	Hydroclimatic variability in Santiago (Chile) since the 16th century. International Journal of Climatology, 2021, 41, E2015.	1.5	7
4	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
5	Transition Dates from Earlywood to Latewood and Early Phloem to Late Phloem in Norway Spruce. Forests, 2021, 12, 331.	0.9	15
6	When Density Matters: The Spatial Balance between Early and Latewood. Forests, 2021, 12, 818.	0.9	6
7	SLOCLIM: a high-resolution daily gridded precipitation and temperature dataset for Slovenia. Earth System Science Data, 2021, 13, 3577-3592.	3.7	12
8	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
9	High-Resolution Temperature Variability Reconstructed from Black Pine Tree Ring Densities in Southern Spain. Atmosphere, 2020, 11, 748.	1.0	8
10	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
11	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
12	Intra-seasonal trends in phloem traits in Pinus spp. from drought-prone environments. IAWA Journal, 2020, 41, 219-235.	2.7	7
13	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
14	A global perspective on the climateâ€driven growth synchrony of neighbouring trees. Global Ecology and Biogeography, 2020, 29, 1114-1125.	2.7	19
15	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
16	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
17	Drought legacies are short, prevail in dry conifer forests and depend on growth variability. Journal of Ecology, 2020, 108, 2473-2484.	1.9	74
18	Climate and population: risk exposure to precipitation concentration in mainland Spain (1950-2010). Boletin De La Asociacion De Geografos Espanoles, 2020, , .	0.2	0

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19	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
20	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
21	Growing season and radial growth predicted for Fagus sylvatica under climate change. Climatic Change, 2019, 153, 181-197.	1.7	54
22	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
23	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
24	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
25	STEAD: a high-resolution daily gridded temperature dataset for Spain. Earth System Science Data, 2019, 11, 1171-1188.	3.7	39
26	Forest resilience to drought varies across biomes. Global Change Biology, 2018, 24, 2143-2158.	4.2	267
27	Fireâ€induced deforestation in droughtâ€prone Mediterranean forests: drivers and unknowns from leaves to communities. Ecological Monographs, 2018, 88, 141-169.	2.4	90
28	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
29	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
30	Variation in xylem vulnerability to embolism in European beech from geographically marginal populations. Tree Physiology, 2018, 38, 173-185.	1.4	93
31	Recent trends reveal decreasing intensity of daily precipitation in Spain. International Journal of Climatology, 2018, 38, 4211-4224.	1.5	34
32	Contrasting Patterns of Tree Growth of Mediterranean Pine Species in the Iberian Peninsula. Forests, 2018, 9, 416.	0.9	21
33	Drought Sensitiveness on Forest Growth in Peninsular Spain and the Balearic Islands. Forests, 2018, 9, 524.	0.9	43
34	Challenges for growth of beech and co-occurring conifers in a changing climate context. Dendrochronologia, 2018, 52, 1-10.	1.0	29
35	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
36	An R package for daily precipitation climate series reconstruction. Environmental Modelling and Software, 2017, 89, 190-195.	1.9	47

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37	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
38	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
39	Temperature variability in the Iberian Range since 1602 inferred from tree-ring records. Climate of the Past, 2017, 13, 93-105.	1.3	24
40	Spatially based reconstruction of daily precipitation instrumental data series. Climate Research, 2017, 73, 167-186.	0.4	23
41	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
42	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
43	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
44	Structure and Function of Intraâ€“Annual Density Fluctuations: Mind the Gaps. Frontiers in Plant Science, 2016, 7, 595.	1.7	72
45	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
46	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
47	Annual Cambial Rhythm in Pinus halepensis and Pinus sylvestris as Indicator for Climate Adaptation. Frontiers in Plant Science, 2016, 07, 1923.	1.7	46
48	MISSING AND DARK RINGS ASSOCIATED WITH DROUGHT IN PINUS HALEPENSIS. IAWA Journal, 2016, 37, 260-274.	2.7	27
49	LACK OF ANNUAL PERIODICITY IN CAMBIAL PRODUCTION OF PHLOEM IN TREES FROM MEDITERRANEAN AREAS. IAWA Journal, 2016, 37, 349-364.	2.7	21
50	INTRA-ANNUAL DENSITY FLUCTUATIONS IN TREE RINGS: HOW, WHEN, WHERE, AND WHY?. IAWA Journal, 2016, 37, 232-259.	2.7	119
51	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
52	AproximaciÃ³n metodolÃ³gica al anÃ¡lisis de la estructura de las tendencias de lluvia. Geographicalia, 2016, , 53.	0.1	0
53	Woody biomass production lags stem-girth increase by over one month in coniferous forests. Nature Plants, 2015, 1, 15160.	4.7	294
54	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

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55	Do variations in leaf phenology affect radial growth variations in Fagus sylvatica?. International Journal of Biometeorology, 2015, 59, 1127-1132.	1.3	33
56	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
57	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
58	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
59	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
60	Trends in seasonal precipitation and temperature in Slovenia during 1951â€“2007. Regional Environmental Change, 2014, 14, 1801-1810.	1.4	51
61	Common climatic signals affecting oak tree-ring growth in SE Central Europe. Trees - Structure and Function, 2014, 28, 1267-1277.	0.9	41
62	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
63	Spatial variability of precipitation in Spain. Regional Environmental Change, 2014, 14, 1743-1749.	1.4	14
64	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
65	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
66	Anatomical characteristics and hydrologic signals in tree-rings of oaks (Quercus robur L.). Trees - Structure and Function, 2013, 27, 1669-1680.	0.9	27
67	Age, climate and intra-annual density fluctuations in Pinus halepensis in Spain. IAWA Journal, 2013, 34, 459-474.	2.7	54
68	Plasticity in Dendroclimatic Response across the Distribution Range of Aleppo Pine (Pinus halepensis). PLoS ONE, 2013, 8, e83550.	1.1	100
69	Factors driving growth responses to drought in Mediterranean forests. European Journal of Forest Research, 2012, 131, 1797-1807.	1.1	37
70	A resprouter herb reduces negative density-dependent effects among neighboring seeders after fire. Acta Oecologica, 2012, 38, 17-23.	0.5	7
71	A regional analysis of the effects of largest events on soil erosion. Catena, 2012, 95, 85-90.	2.2	49
72	Continuously missing outer rings in woody plants at their distributional margins. Dendrochronologia, 2012, 30, 213-222.	1.0	69

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73	Temporal shifts in leaf phenology of beech (Fagus sylvatica) depend on elevation. Trees - Structure and Function, 2012, 26, 1091-1100.	0.9	84
74	Seedling emergence of tall fescue and wheatgrass under different climate conditions in Iran. Spanish Journal of Agricultural Research, 2012, 10, 183.	0.3	2
75	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
76	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
77	Climate factors promoting intra-annual density fluctuations in Aleppo pine (Pinus halepensis) from semiarid sites. Dendrochronologia, 2011, 29, 163-169.	1.0	103
78	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
79	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
80	Precipitation concentration changes in Spain 1946â€“2005. Natural Hazards and Earth System Sciences, 2011, 11, 1259-1265.	1.5	207
81	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
82	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
83	Contribution of the largest events to suspended sediment transport across the USA. Land Degradation and Development, 2010, 21, 83-91.	1.8	81
84	Is rainfall erosivity increasing in the Mediterranean Iberian Peninsula?. Land Degradation and Development, 2010, 21, 139-144.	1.8	72
85	Changes in seasonal precipitation in the Iberian Peninsula during 1946â€“2005. Global and Planetary Change, 2010, 74, 27-33.	1.6	147
86	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
87	Precipitation trends in Spanish hydrological divisions, 1946â€“2005. Climate Research, 2010, 43, 215-228.	0.4	42
88	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
89	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
90	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

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91	Size mediated climateâ€“growth relationships in Pinus halepensis and Pinus pinea. Trees - Structure and Function, 2009, 23, 1065-1073.	0.9	90
92	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
93	Reconstructing dry and wet summers in SE Slovenia from oak tree-ring series. International Journal of Biometeorology, 2008, 52, 607-615.	1.3	48
94	Temporal and spatial differentiation in seedling emergence may promote species coexistence in Mediterranean fireâ€prone ecosystems. Ecography, 2008, 31, 620-629.	2.1	39
95	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
96	EARLY TO RISE MAKES A PLANT HEALTHY, WEALTHY, AND WISE. Ecology, 2008, 89, 3061-3071.	1.5	63
97	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
98	A review of daily soil erosion in Western Mediterranean areas. Catena, 2007, 71, 193-199.	2.2	134
99	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
100	Post-fire vegetation succession inÂMediterranean gorse shrublands. Acta Oecologica, 2006, 30, 54-61.	0.5	44
101	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
102	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
103	Fire and torrential rainfall: effects on seedling establishment in Mediterranean gorse shrublands. International Journal of Wildland Fire, 2005, 14, 413.	1.0	30
104	Fuel characteristics and fire behaviour in mature Mediterranean gorse shrublands. International Journal of Wildland Fire, 2004, 13, 79.	1.0	98
105	Fire and torrential rainfall: effects on the perennial grass Brachypodium retusum. Plant Ecology, 2004, 173, 225-232.	0.7	33
106	Hydrological response of Mediterranean gorse shrubland under extreme rainfall simulation event. Zeitschrift FÃ¼r Geomorphologie, 2004, 48, 293-304.	0.3	12
107	drought patterns in the Mediterranean area: the Valencia region (eastern Spain). Climate Research, 2004, 26, 5-15.	0.4	139
108	Effects of fire and torrential rainfall on erosion in a Mediterranean gorse community. Land Degradation and Development, 2003, 14, 203-213.	1.8	87

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109	Daily rainfall trend in the Valencia Region of Spain. Theoretical and Applied Climatology, 2003, 75, 117-130.	1.3	66
110	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
111	Climatic trends, disturbances and short-term vegetation dynamics in a Mediterranean shrubland. Forest Ecology and Management, 2001, 147, 25-37.	1.4	117
112	Spatial distribution of seasonal rainfall trends in a western Mediterranean area. International Journal of Climatology, 2001, 21, 843-860.	1.5	64
113	Spatial analysis of rainfall trends in the region of Valencia (east Spain). International Journal of Climatology, 2000, 20, 1451-1469.	1.5	220
114	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
115	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