

# Miren del Rio

## List of Publications by Year in descending order

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121  
papers

5,431  
citations

61945

43  
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98753

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g-index

124  
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124  
docs citations

124  
times ranked

3897  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.1	257
2	Growth response to climate and drought in <i>Pinus nigra</i> Arn. trees of different crown classes. <i>Trees - Structure and Function</i> , 2008, 22, 363-373.	0.9	212
3	Characterization of the structure, dynamics, and productivity of mixed-species stands: review and perspectives. <i>European Journal of Forest Research</i> , 2016, 135, 23-49.	1.1	170
4	Response of climate-growth relationships and water use efficiency to thinning in a <i>Pinus nigra</i> afforestation. <i>Forest Ecology and Management</i> , 2010, 259, 967-975.	1.4	151
5	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.	1.9	140
6	Temporal variation of competition and facilitation in mixed species forests in central Europe. <i>Plant Biology</i> , 2014, 16, 166-176.	1.8	132
7	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.	1.9	125
8	Mixing effect on volume growth of <i>Fagus sylvatica</i> and <i>Pinus sylvestris</i> is modulated by stand density. <i>Forest Ecology and Management</i> , 2013, 292, 86-95.	1.4	115
9	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.	1.4	115
10	New models for estimating the carbon sink capacity of Spanish softwood species. <i>Forest Systems</i> , 2011, 20, 176.	0.1	110
11	Comparaison de la croissance en volume dans des peuplements purs et des peuplements mixtes de <i>Pinus sylvestris</i> et de <i>Quercus pyrenaica</i> . <i>Annals of Forest Science</i> , 2009, 66, 502-502.	0.8	108
12	European Mixed Forests: definition and research perspectives. <i>Forest Systems</i> , 2014, 23, 518.	0.1	107
13	Biomass models to estimate carbon stocks for hardwood tree species. <i>Forest Systems</i> , 2012, 21, 42.	0.1	106
14	The greater resilience of mixed forests to drought mainly depends on their composition: Analysis along a climate gradient across Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118687.	1.4	104
15	What is Climate-Smart Forestry? A definition from a multinational collaborative process focused on mountain regions of Europe. <i>Ecosystem Services</i> , 2020, 43, 101113.	2.3	100
16	Growth response to thinning in <i>Quercus pyrenaica</i> Willd. coppice stands in Spanish central mountain. <i>Annals of Forest Science</i> , 2004, 61, 243-250.	0.8	99
17	Growth responses of West-Mediterranean <i>Pinus nigra</i> to climate change are modulated by competition and productivity: Past trends and future perspectives. <i>Forest Ecology and Management</i> , 2011, 262, 1030-1040.	1.4	96
18	Analyzing size-symmetric vs. size-asymmetric and intra- vs. inter-specific competition in beech ( <i>Fagus</i> )	1.4	90

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19	Terrestrial laser scanning reveals differences in crown structure of <i>Fagus sylvatica</i> in mixed vs. pure European forests. <i>Forest Ecology and Management</i> , 2017, 405, 381-390.	1.4	80
20	Individual-tree diameter growth model for rebollo oak ( <i>Quercus pyrenaica</i> Willd.) coppices. <i>Forest Ecology and Management</i> , 2008, 255, 1011-1022.	1.4	77
21	Analysis of diameter–density relationships and self-thinning in non-thinned even-aged Scots pine stands. <i>Forest Ecology and Management</i> , 2001, 142, 79-87.	1.4	76
22	Litter fall in Mediterranean <i>Pinus pinaster</i> Ait. stands under different thinning regimes. <i>Forest Ecology and Management</i> , 2005, 206, 179-190.	1.4	76
23	A mixed nonlinear height–diameter model for pyrenean oak ( <i>Quercus pyrenaica</i> Willd.). <i>Forest Ecology and Management</i> , 2008, 256, 88-98.	1.4	75
24	Competition-induced mortality for Mediterranean <i>Pinus pinaster</i> Ait. and <i>P. sylvestris</i> L.. <i>Forest Ecology and Management</i> , 2006, 222, 88-98.	1.4	73
25	Intensité de claircie et croissance dans des peuplements de pin sylvestre du sud ouest de l'Europe. <i>Annals of Forest Science</i> , 2008, 65, 308-308.	0.8	70
26	Black pine ( <i>Pinus nigra</i> Arn.) growth divergence along a latitudinal gradient in Western Mediterranean mountains. <i>Annals of Forest Science</i> , 2010, 67, 401-401.	0.8	70
27	Do thinnings influence biomass and soil carbon stocks in Mediterranean maritime pinewoods?. <i>European Journal of Forest Research</i> , 2013, 132, 253-262.	1.1	69
28	Maintenance of long-term experiments for unique insights into forest growth dynamics and trends: review and perspectives. <i>European Journal of Forest Research</i> , 2019, 138, 165-185.	1.1	68
29	A review of thinning effects on Scots pine stands: From growth and yield to new challenges under global change. <i>Forest Systems</i> , 2017, 26, eR03S.	0.1	66
30	Species mixing reduces drought susceptibility of Scots pine ( <i>Pinus sylvestris</i> L.) and oak ( <i>Quercus</i> ) stands. <i>Forest Ecology and Management</i> , 2020, 461, 117908.	1.4	65
31	Forest management and carbon sequestration in the Mediterranean region: A review. <i>Forest Systems</i> , 2017, 26, eR04S.	0.1	65
32	Climate modifies tree interactions in terms of basal area growth and mortality in monospecific and mixed <i>Fagus sylvatica</i> and <i>Pinus sylvestris</i> forests. <i>European Journal of Forest Research</i> , 2015, 134, 1095-1108.	1.1	62
33	Thinning enhances the species-specific radial increment response to drought in Mediterranean pine-oak stands. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 371-383.	1.9	60
34	Using historic management records to characterize the effects of management on the structural diversity of forests. <i>Forest Ecology and Management</i> , 2005, 207, 279-293.	1.4	59
35	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.	1.4	59
36	Tree allometry variation in response to intra- and inter-specific competitions. <i>Trees - Structure and Function</i> , 2019, 33, 121-138.	0.9	59

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37	Stand growth and structure of mixed-species and monospecific stands of Scots pine ( <i>Pinus sylvestris</i> ) Tj ETQq1 1 0.784314 rgBT /Ove Europe. <i>European Journal of Forest Research</i> , 2020, 139, 349-367.	1.1	59
38	Tree ring wood density of Scots pine and European beech lower in mixed-species stands compared with monocultures. <i>Forest Ecology and Management</i> , 2017, 400, 363-374.	1.4	51
39	Dominant height growth equations including site attributes in the generalized algebraic difference approach. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2348-2358.	0.8	50
40	Effects of Drought on Xylem Anatomy and Water-Use Efficiency of Two Co-Occurring Pine Species. <i>Forests</i> , 2017, 8, 332.	0.9	49
41	Using stand-scale forest models for estimating indicators of sustainable forest management. <i>Forest Ecology and Management</i> , 2012, 285, 164-178.	1.4	48
42	The productivity of mixed mountain forests comprised of <i>Fagus sylvatica</i> , <i>Picea abies</i> , and <i>Abies alba</i> across Europe. <i>Forestry</i> , 2019, 92, 512-522.	1.2	46
43	Effect of species proportion definition on the evaluation of growth in pure vs. mixed stands. <i>Forest Systems</i> , 2014, 23, 547.	0.1	45
44	Resin-tapped pine forests in Spain: Ecological diversity and economic valuation. <i>Science of the Total Environment</i> , 2018, 625, 1146-1155.	3.9	44
45	Shrub biomass accumulation and growth rate models to quantify carbon stocks and fluxes for the Mediterranean region. <i>European Journal of Forest Research</i> , 2015, 134, 537-553.	1.1	43
46	Results from a thinning experiment in a Scots pine ( <i>Pinus sylvestris</i> L.) natural regeneration stand in the Sistema Ibárico Mountain Range (Spain). <i>Forest Ecology and Management</i> , 2001, 145, 151-161.	1.4	42
47	Changes in structural heterogeneity and stand productivity by mixing Scots pine and Maritime pine. <i>Forest Ecology and Management</i> , 2017, 405, 219-228.	1.4	41
48	The effects of thinning on the structural diversity of coppice forests. <i>Annals of Forest Science</i> , 2004, 61, 771-779.	0.8	41
49	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.	1.4	40
50	The symmetry of competitive interactions in mixed Norway spruce, silver fir and European beech forests. <i>Journal of Vegetation Science</i> , 2018, 29, 775-787.	1.1	39
51	Site index curves and growth model for Mediterranean maritime pine ( <i>Pinus pinaster</i> Ait.) in Spain. <i>Forest Ecology and Management</i> , 2004, 201, 187-197.	1.4	38
52	Modelling dominant height growth and site index curves for rebollo oak ( <i>Quercus pyrenaica</i> Willd.). <i>Annals of Forest Science</i> , 2006, 63, 929-940.	0.8	38
53	Intra- and inter-specific variation of the maximum size-density relationship along an aridity gradient in Iberian pinewoods. <i>Forest Ecology and Management</i> , 2018, 411, 90-100.	1.4	37
54	Drought modifies tree competitiveness in an oak-beech temperate forest. <i>Forest Ecology and Management</i> , 2018, 429, 7-17.	1.4	35

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55	Evidence of elevation-specific growth changes of spruce, fir, and beech in European mixed mountain forests during the last three centuries. <i>Canadian Journal of Forest Research</i> , 2020, 50, 689-703.	0.8	35
56	Distance independent tree diameter growth model for cork oak stands. <i>Forest Ecology and Management</i> , 2006, 225, 262-270.	1.4	34
57	Thinning alters the early-decomposition rate and nutrient immobilization-release pattern of foliar litter in Mediterranean oak-pine mixed stands. <i>Forest Ecology and Management</i> , 2017, 391, 309-320.	1.4	34
58	Geographic variation and parameter assessment in generalized algebraic difference site index modelling. <i>Forest Ecology and Management</i> , 2007, 247, 107-119.	1.4	33
59	Long-term impacts of drought on growth and forest dynamics in a temperate beech-oak-birch forest. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 48-59.	1.9	32
60	Importance of tree species size dominance and heterogeneity on the productivity of spruce-fir-beech mountain forest stands in Europe. <i>Forest Ecology and Management</i> , 2020, 457, 117716.	1.4	31
61	Regional changes of <i>Pinus pinaster</i> site index in Spain using a climate-based dominant height model. <i>Canadian Journal of Forest Research</i> , 2010, 40, 2036-2048.	0.8	30
62	Modelling approaches for mixed forests dynamics prognosis. Research gaps and opportunities. <i>Forest Systems</i> , 2019, 28, eR002.	0.1	29
63	Growth and yield models in Spain: Historical overview, Contemporary Examples and perspectives. <i>Forest Systems</i> , 2011, 20, 315.	0.1	28
64	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.	0.8	27
65	Implications of Reduced Stand Density on Tree Growth and Drought Susceptibility: A Study of Three Species under Varying Climate. <i>Forests</i> , 2020, 11, 627.	0.9	27
66	Long-term trends in dominant-height growth of black pine using dynamic models. <i>Forest Ecology and Management</i> , 2008, 256, 1230-1238.	1.4	25
67	Modeling individual-tree mortality in Pyrenean oak ( <i>Quercus pyrenaica</i> Willd.) stands. <i>Annals of Forest Science</i> , 2010, 67, 810-810.	0.8	25
68	Mixing effects on growth efficiency in mixed pine forests. <i>Forestry</i> , 0, , .	1.2	25
69	Species Mixing Effects on Heightâ€“Diameter and Basal Area Increment Models for Scots Pine and Maritime Pine. <i>Forests</i> , 2019, 10, 249.	0.9	25
70	â€“Carbon stocks in a Scots pine afforestation under different thinning intensities managementâ€™. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016, 21, 1059.	1.0	24
71	Maximum stand density strongly depends on species-specific wood stability, shade and drought tolerance. <i>Forestry</i> , 2018, 91, 459-469.	1.2	24
72	Mediterranean Pine Forests: Management Effects on Carbon Stocks. <i>Managing Forest Ecosystems</i> , 2017, , 301-327.	0.4	23

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73	Species and soil effects on overyielding of tree species mixtures in the Netherlands. <i>Forest Ecology and Management</i> , 2018, 409, 105-118.	1.4	23
74	European beech stem diameter grows better in mixed than in mono-specific stands at the edge of its distribution in mountain forests. <i>European Journal of Forest Research</i> , 2021, 140, 127-145.	1.1	23
75	Mixing effects on Scots pine ( <i>Pinus sylvestris</i> L.) and Norway spruce ( <i>Picea abies</i> (L.) Karst.) productivity along a climatic gradient across Europe. <i>Forest Ecology and Management</i> , 2021, 482, 118834.	1.4	23
76	Spatio-temporal variation of natural regeneration in <i>Pinus pinea</i> and <i>Pinus pinaster</i> Mediterranean forests in Spain. <i>European Journal of Forest Research</i> , 2019, 138, 313-326.	1.1	21
77	Species-specific weather response in the daily stem variation cycles of Mediterranean pine-oak mixed stands. <i>Agricultural and Forest Meteorology</i> , 2018, 256-257, 220-230.	1.9	20
78	Mixed short rotation plantations of <i>Populus alba</i> and <i>Robinia pseudoacacia</i> for biomass yield. <i>Forest Ecology and Management</i> , 2018, 410, 48-55.	1.4	20
79	Productivity Estimations for Monospecific and Mixed Pine Forests along the Iberian Peninsula Aridity Gradient. <i>Forests</i> , 2019, 10, 430.	0.9	20
80	Tree species identity drives soil organic carbon storage more than species mixing in major two-species mixtures (pine, oak, beech) in Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118752.	1.4	20
81	Density regulation of mixed and mono-specific forest stands as a continuum: a new concept based on species-specific coefficients for density equivalence and density modification. <i>Forestry</i> , 2020, 93, 1-15.	1.2	19
82	Environmental variability and its relationship to site index in Mediterranean maritime pine. <i>Forest Systems</i> , 2011, 20, 50.	0.1	19
83	Adapting a model for even-aged <i>Pinus pinea</i> L. stands to complex multi-aged structures. <i>Forest Ecology and Management</i> , 2008, 256, 1390-1399.	1.4	16
84	Influence of individual tree and stand attributes in stem straightness in <i>Pinus pinaster</i> Ait. stands. <i>Annals of Forest Science</i> , 2004, 61, 141-148.	0.8	16
85	Ingrowth model for pyrenean oak stands in north-western Spain using continuous forest inventory data. <i>European Journal of Forest Research</i> , 2010, 129, 669-678.	1.1	15
86	Aleppo pine vulnerability to climate stress is independent of site productivity of forest stands in southeastern Spain. <i>Trees - Structure and Function</i> , 2014, 28, 1209-1224.	0.9	15
87	Estimation and Uncertainty of the Mixing Effects on Scots Pine and European Beech Productivity from National Forest Inventories Data. <i>Forests</i> , 2018, 9, 518.	0.9	15
88	Climate-mediated regeneration occurrence in Mediterranean pine forests: A modeling approach. <i>Forest Ecology and Management</i> , 2019, 446, 10-19.	1.4	15
89	Species stratification and weather conditions drive tree growth in Scots pine and Norway spruce mixed stands along Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118697.	1.4	15
90	Effects of elevation-dependent climate warming on intra- and inter-specific growth synchrony in mixed mountain forests. <i>Forest Ecology and Management</i> , 2021, 479, 118587.	1.4	15

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91	Tracing drought effects from the tree to the stand growth in temperate and Mediterranean forests: insights and consequences for forest ecology and management. <i>European Journal of Forest Research</i> , 2022, 141, 727-751.	1.1	15
92	Crown plasticity of five pine species in response to competition along an aridity gradient. <i>Forest Ecology and Management</i> , 2020, 473, 118302.	1.4	14
93	Species Mixing Effects on Forest Productivity: A Case Study at Stand-, Species- and Tree-Level in the Netherlands. <i>Forests</i> , 2018, 9, 713.	0.9	13
94	Tree diversity reduces pine infestation by mistletoe. <i>Forest Ecology and Management</i> , 2019, 449, 117470.	1.4	13
95	Climate effects on growth differ according to height and diameter along the stem in <i>Pinus pinaster</i> Ait.. <i>IForest</i> , 2018, 11, 237-242.	0.5	13
96	Characterization of Mixed Forests. <i>Managing Forest Ecosystems</i> , 2018, , 27-71.	0.4	12
97	Differences in stem radial variation between <i>Pinus pinaster</i> Ait. and <i>Quercus pyrenaica</i> Willd. may release inter-specific competition. <i>Forest Ecology and Management</i> , 2021, 481, 118779.	1.4	12
98	Silviculture of Mixed Forests: A European Overview of Current Practices and Challenges. <i>Managing Forest Ecosystems</i> , 2018, , 185-253.	0.4	11
99	Modelling silviculture alternatives for managing <i>Pinus pinea</i> L.. <i>Forest Systems</i> , 2011, 20, 3.	0.1	11
100	With increasing site quality asymmetric competition and mortality reduces Scots pine ( <i>Pinus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	1.4	11
101	Short- and long-term growth response to climate in mixed and monospecific forests of <i>Pinus pinea</i> and <i>Pinus pinaster</i> . <i>European Journal of Forest Research</i> , 2021, 140, 387-402.	1.1	9
102	Improving tree biomass models through crown ratio patterns and incomplete data sources. <i>European Journal of Forest Research</i> , 2021, 140, 675-689.	1.1	8
103	Mapping forest site quality at national level. <i>Forest Ecology and Management</i> , 2022, 508, 120043.	1.4	8
104	New approaches to modelling cross-sectional area to height allometry in four Mediterranean pine species. <i>Forestry</i> , 2014, 87, 399-406.	1.2	7
105	Stand-level biomass models for predicting C stock for the main Spanish pine species. <i>Forest Ecosystems</i> , 2021, 8, .	1.3	7
106	Species-specific and generalized biomass models for estimating carbon stocks of young reforestations. <i>Biomass and Bioenergy</i> , 2022, 161, 106453.	2.9	7
107	Mixture mitigates the effect of climate change on the provision of relevant ecosystem services in managed <i>Pinus pinea</i> L. forests. <i>Forest Ecology and Management</i> , 2021, 481, 118782.	1.4	6
108	Simulating the effects of thinning and species mixing on stands of oak ( <i>Quercus petraea</i> (Matt.)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 109406.	1.2	6

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109	Data Platforms for Mixed Forest Research: Contributions from the EuMIXFOR Network. <i>Managing Forest Ecosystems</i> , 2018, , 73-101.	0.4	6
110	Temperature effect on size distributions in spruce-fir-beech mixed stands across Europe. <i>Forest Ecology and Management</i> , 2022, 504, 119819.	1.4	6
111	Forest Carbon Sequestration: The Impact of Forest Management. <i>Managing Forest Ecosystems</i> , 2017, , 251-275.	0.4	5
112	Dynamics of ecosystem services in <i>Pinus sylvestris</i> stands under different managements and site quality classes. <i>European Journal of Forest Research</i> , 2017, 136, 983-996.	1.1	5
113	Dynamic growth and yield model for Black pine stands in Spain. <i>Forest Systems</i> , 2012, 21, 439.	0.1	5
114	The distribution of carbon stocks between tree woody biomass and soil differs between Scots pine and broadleaved species (beech, oak) in European forests. <i>European Journal of Forest Research</i> , 2022, 141, 467-480.	1.1	5
115	Soil erodibility in European mountain beech forests. <i>Canadian Journal of Forest Research</i> , 2021, 51, 1846-1855.	0.8	4
116	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.	1.4	4
117	Mixed Forests™ Future. <i>Managing Forest Ecosystems</i> , 2018, , 397-412.	0.4	2
118	Presentation of the Special Section "Mediterranean Silviculture: Homage to Gregorio Montero". <i>Forest Systems</i> , 2017, 26, eP1.	0.1	2
119	Entresaca por bosquetes pequeños y corta a hecho en dos tiempos sobre repoblaciones de <i>Pinus pinaster</i> Ait.. <i>Cuadernos De La Sociedad Española De Ciencias Forestales</i> , 2020, 45, 59-76.	0.1	0
120	Patrón de la regeneración tras cortas a hecho en dos tiempos sobre masas de repoblación de <i>Pinus pinaster</i> Ait. con presencia variable de frondosas (Sierra Madrona). <i>Cuadernos De La Sociedad Española De Ciencias Forestales</i> , 2020, 46, 197-210.	0.1	0
121	Correction: Soil erodibility in European mountain beech forests. <i>Canadian Journal of Forest Research</i> , 2022, 52, 135-135.	0.8	0