Rafael Rubilar

List of Articles by Year
in descending order

90 PR articles	1,525 PR citations	312207 22 PR h-index	347068 37 g-index
98 documents	1693 doc citations	352557 22 h-index	2206 citing authors

#	Article	IF	Citations
1	Assessing Methods to Measure Stem Diameter at Breast Height with High Pulse Density Helicopter Laser Scanning. Remote Sensing, 2025, 17, 229.	3.7	2
2	Relationship Between Carbon Stock and Stand Cumulative Production at Harvesting Age of Pinus radiata Plantations: A Comparison Between Granitic and Metamorphic Soils. Sustainability, 2025, 17, 3614.	2.9	2
3	Modeling the Effects of Climate and Site on Soil and Forest Floor Carbon Stocks in Radiata Pine Stands at Harvesting Age. Forests, 2025, 16, 1137.	2.2	0
4	Predicting the yield of Pinus taeda (L.) using UAV LiDAR data in random forest and support vector machine models. Forest Ecology and Management, 2025, 594, 122977.	3.6	1
5	Precision forestry in actively managed loblolly pine plantations: Leaf area index response one growing season following a variable-rate fertilization. Forest Ecology and Management, 2025, 595, 122989.	3.6	0
6	The dark side of the soil carbon cycle: Hydroxyl radicals and abiotic CO2 production. Soil Biology and Biochemistry, 2025, 211, 109951.	10.5	2
7	Wood Basic Density Assessment of Eucalyptus Genotypes Growing under Contrasting Water Availability Conditions. Forests, 2024, 15, 185.	2.2	5
8	Pinus taeda carryover phosphorus availability on the lower Atlantic Coastal Plain. Forest Ecology and Management, 2024, 555, 121701.	3.6	1
9	Forest soil classification for intensive pine plantation management: â€œSite Productivity Optimization for Treesâ€•system. Forest Ecology and Management, 2024, 556, 121732.	3.6	10
10	Extracted Eucalyptus globulus Bark Fiber as a Potential Substrate for Pinus radiata and Quillaja saponaria Germination. Plants, 2024, 13, 789.	3.7	5
11	Water and Temperature Ecophysiological Challenges of Forests Plantations under Climate Change. Forests, 2024, 15, 654.	2.2	6
12	Drought and Wildfire Trends in Native Forests of South-Central Chile in the 21st Century. Fire, 2024, 7, 230.	2.4	14
13	Nature vs. nurture: Drivers of site productivity in loblolly pine (Pinus taeda L.) forests in the southeastern US. Forest Ecology and Management, 2024, 572, 122334.	3.6	5
14	Growth trends of loblolly pine age five or less in relation to soil type and management intensity. Forest Ecology and Management, 2024, 574, 122355.	3.6	3
15	Soil and Site Productivity Effects on Above- and Belowground Radiata Pine Carbon Pools at Harvesting Age. Plants, 2024, 13, 3482.	3.7	3
16	Differences in rainfall interception among Eucalyptus genotypes. Trees - Structure and Function, 2023, 37, 1189-1200.	1.7	3
17	Rotation-age effects of subsoiling, fertilization, and weed control on radiata pine growth at sites with contrasting soil physical, nutrient, and water limitations. Forest Ecology and Management, 2023, 544, 121213.	3.6	9
18	Morphological, physiological and carbon balance response of Eucalyptus genotypes under water stress. New Forests, 2023, 55, 441-457.	1.2	9

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19	Life cycle analysis to estimate CO_2e emissions from forest harvesting systems in intensively managed Pinus radiata plantations. Scandinavian Journal of Forest Research, 2022, 37, 144-152.	1.4	3
20	Hillslope soil erosion and mobility in pine plantations and native deciduous forest in the coastal range of southâ€Central Chile. Land Degradation and Development, 2021, 32, 453-466.	3.8	24
21	Estimating the overstory and understory vertical extents and their leaf area index in intensively managed loblolly pine (Pinus taeda L.) plantations using airborne laser scanning. Remote Sensing of Environment, 2021, 254, 112250.	11.2	31
22	Financial Returns for Biomass on Short-Rotation Loblolly Pine Plantations in the Southeastern United States. Forest Science, 2021, 67, 670-681.	0.5	3
23	A 50-Year Retrospective of the Forest Productivity Cooperative in the Southeastern United States: Regionwide Trials. Journal of Forestry, 2021, 119, 73-85.	0.8	9
24	Differences in early seasonal growth efficiency and productivity of eucalyptus genotypes. New Forests, 2021, 53, 811-829.	1.2	1
25	Eucalyptus grandis Response to Calcium Fertilization in Colombia. Forest Science, 2021, 67, 701-710.	0.5	4
26	Transcriptomic response in foliar and root tissues of a drought-tolerant Eucalyptus globulus genotype under drought stress. Trees - Structure and Function, 2021, 36, 697-709.	1.7	7
27	Climate and water availability impacts on early growth and growth efficiency of Eucalyptus genotypes: The importance of GxE interactions. Forest Ecology and Management, 2020, 458, 117763.	3.6	28
28	Mid-rotation response of Pinus taeda to early silvicultural treatments in subtropical Argentina. Forest Ecology and Management, 2020, 473, 118317.	3.6	6
29	Losses of fertilizer nitrogen after a winter fertilization in three managed pine plantations of the southeastern United States. Soil Science Society of America Journal, 2020, 84, 609-617.	2.4	2
30	Complementarity increases production in genetic mixture of loblolly pine (Pinus taedaL.) throughout planted range. Ecosphere, 2020, 11, .	2.6	6
31	Global timber investments, 2005 to 2017. Forest Policy and Economics, 2020, 112, 102082.	3.7	51
32	A New Approach for Modeling Volume Response from Mid-Rotation Fertilization of Pinus taeda L. Plantations. Forests, 2020, 11, 646.	2.2	7
33	Contrasting responses of cluster roots formation induced by phosphorus and nitrogen supply in Embothrium coccineum populations from different geographical origin. Plant and Soil, 2020, 453, 473-485.	3.3	3
34	Nitrogen loading of Eucalyptus globulus seedlings: nutritional dynamics and influence on morphology and root growth potential. New Forests, 2020, 52, 31-46.	1.2	10
35	Forest Fertilizer Applications in the Southeastern United States from 1969 to 2016. Forest Science, 2019, 65, 355-362.	0.5	28
36	Crown architecture, crown leaf area distribution, and individual tree growth efficiency vary across site, genetic entry, and planting density. Trees - Structure and Function, 2019, 34, 73-88.	1.7	27

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37	ABOVEGROUND BIOMASS GROWTH AND YIELD OF FIRST ROTATION CUTTING CYCLE OF Acacia AND Eucalyptus SHORT ROTATION DENDROENERGY CROPS. Revista Arvore, 2018, 41, .	0.4	5
38	Advances in Silviculture of Intensively Managed Plantations. Current Forestry Reports, 2018, 4, 23-34.	5.9	49
39	Leaf area and growth of Chilean radiata pine plantations after thinning across a water stress gradient. New Zealand Journal of Forestry Science, 2018, 48, .	1.4	15
40	Modelling the Effect of Weed Competition on Long-Term Volume Yield of Eucalyptus globulus Labill. Plantations across an Environmental Gradient. Forests, 2018, 9, 480.	2.2	6
41	Economic assessment of Eucalyptus globulus short rotation energy crops under contrasting silvicultural intensities on marginal agricultural land. Land Use Policy, 2018, 76, 329-337.	5.5	21
42	A common garden experiment examining light use efficiency and heat sum to explain growth differences in native and exotic Pinus taeda. Forest Ecology and Management, 2018, 425, 35-44.	3.6	29
43	Biomass and nutrient mass of Acacia dealbata and Eucalyptus globulus bioenergy plantations. Biomass and Bioenergy, 2017, 97, 162-171.	5.5	24
44	Quantifying differences in thermal dissipation probe calibrations for Eucalyptus globulus species and E. nitensâ€‰Ã—â€‰globulus hybrid. Trees - Structure and Function, 2017, 31, 1263-1270.	1.7	9
45	Post-thinning density and fertilization affect Pinus taeda stand and individual tree growth. Forest Ecology and Management, 2017, 396, 207-216.	3.6	30
46	Comparative water use in short-rotation Eucalyptus benthamii and Pinus taeda trees in the Southern United States. Forest Ecology and Management, 2017, 397, 126-138.	3.6	36
47	Field performance of various Pinus radiata breeding families established on a drought-prone site in central Chile. New Zealand Journal of Forestry Science, 2017, 47, .	1.4	6
48	BIOETHANOL POTENTIAL FROM HIGH DENSITY SHORT ROTATION WOODY CROPS ON MARGINAL LANDS IN CENTRAL CHILE. Cerne, 2017, 23, 133-145.	0.5	8
49	Respuesta en parÃ¡metros de intercambio gaseoso y supervivencia en plantas jÃ³venes de genotipos comerciales de Eucalyptus spp sometidas a dÃ©ficit hÃdrico. Bosque, 2017, 38, 79-87.	0.2	7
50	Long-term response to area of competition control in Eucalyptus globulus plantations. New Forests, 2017, 49, 383-398.	1.2	20
51	Intercambio gaseoso de dos clones de Paulownia elongata x fortunei al primer aÃ±o de desarrollo vegetativo en tres sitios del centro-sur de Chile. Gayana - Botanica, 2016, 73, 438-452.	0.2	2
52	Maximum response of loblolly pine plantations to silvicultural management in the southern United States. Forest Ecology and Management, 2016, 375, 105-111.	3.6	85
53	Nitrogen availability and mineralization in Pinus radiata stands fertilized mid-rotation at three contrasting sites. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	2.8	3
54	Long-Term Pinus radiata Productivity Gains from Tillage, Vegetation Control, and Fertilization. Forest Science, 2015, 61, 800-808.	0.5	25

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55	MacropropagaciÃ³n de Paulownia elongata x fortunei a partir de esquejes de raÃz en la RegiÃ³n del BiobÃo, Chile. Gayana - Botanica, 2015, 72, 70-75.	0.2	1
56	Juvenile Southern Pine Response to Fertilization Is Influenced by Soil Drainage and Texture. Forests, 2015, 6, 2799-2819.	2.2	26
57	Evaluation of damage caused by Ectinogonia buquetti (Coleoptera: Buprestidae) in dendroenergetic plantations of Eucalyptus camaldulensis. Bosque, 2015, 36, 247-254.	0.2	2
58	Cradle-to-gate life cycle assessment of Eucalyptus globulus short rotation plantations in Chile. Journal of Cleaner Production, 2015, 99, 239-249.	9.5	60
59	Response of Eucalyptus grandis in Colombia to mid-rotation fertilization is dependent on site and rate but not frequency of application. Forest Ecology and Management, 2015, 350, 30-39.	3.6	12
60	Local and general above-stump biomass functions for loblolly pine and slash pine trees. Forest Ecology and Management, 2014, 334, 254-276.	3.6	63
61	Using seasonal measurements to inform ecophysiology: extracting cardinal growth temperatures for process-based growth models of five Eucalyptus species/crosses from simple field trials. New Zealand Journal of Forestry Science, 2014, 44, .	1.4	15
62	Growth Responses of Loblolly Pine in the Southeast United States to Midrotation Applications of Nitrogen, Phosphorus, Potassium, and Micronutrients. Forest Science, 2014, 60, 157-169.	0.5	47
63	Ecosystem Nutrient Retention after Fertilization of Pinus taeda. Forest Science, 2014, 60, 1131-1139.	0.5	6
64	Foliage development and leaf area duration in Pinus radiata. Forest Ecology and Management, 2013, 304, 455-463.	3.6	6
65	Influences of silvicultural manipulations on above- and belowground biomass accumulations and leaf area in young Pinus radiata plantations, at three contrasting sites in Chile. Forestry, 2013, 86, 27-38.	2.2	19
66	Fertilization and irrigation effects on tree level aboveground net primary production, light interception and light use efficiency in a loblolly pine plantation. Forest Ecology and Management, 2013, 288, 43-48.	3.6	75
67	Developing a New Foliar Nutrient-Based Method to Predict Response to Competing Vegetation Control in Pinus taeda. Southern Journal of Applied Forestry, 2013, 37, 196-201.	0.4	4
68	Efecto de plantaciones dendroenergÃ©ticas en el carbono a nivel de suelo, en dos suelos contrastantes de la regiÃ³n de BiobÃo, Chile. Revista Arvore, 2013, 37, 1135-1144.	0.4	6
69	Intra-annual nutrient flux in Pinus taeda. Tree Physiology, 2012, 32, 1237-1258.	3.5	12
70	Probability Distributions in High-Density Dendroenergy Plantations. Forest Science, 2012, 58, 663-672.	0.5	11
71	Carbon Emissions and Sequestration from Fertilization of Pine in the Southeastern United States. Forest Science, 2012, 58, 419-429.	0.5	32
72	A Method for Estimating Deciduous Competition in Pine Stands Using Landsat. Southern Journal of Applied Forestry, 2012, 36, 71-78.	0.4	18

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73	Midrotation Vegetation Control and Fertilization Response in <I>Pinus taeda</I> and <I>Pinus elliottii</I> across the Southeastern United States. Southern Journal of Applied Forestry, 2012, 36, 44-53.	0.4	26
74	Drought effects on water use efficiency, freezing tolerance and survival of Eucalyptus globulus and Eucalyptus globulusÂÃ—Ânitens cuttings. New Forests, 2012, 44, 119-134.	1.2	29
75	Global timber investments, wood costs, regulation, and risk. Biomass and Bioenergy, 2010, 34, 1667-1678.	5.5	72
76	Silvicultural manipulation and site effect on above and belowground biomass equations for young Pinus radiata. Biomass and Bioenergy, 2010, 34, 1825-1837.	5.5	13
77	Estimating the bioenergy potential of Pinus radiata plantations in Chile. Ciencia E Investigacion Agraria, 2010, 37, .	0.6	5
78	Leaf area duration in natural range and exotic Pinus taeda. Canadian Journal of Forest Research, 2010, 40, 224-234.	1.8	10
79	Opportunities for Fertilization of Loblolly Pine in the Sandhills of the Southeastern United States. Southern Journal of Applied Forestry, 2009, 33, 129-136.	0.4	13
80	The effect of pruning and thinning on above ground aerial biomass of Eucalyptus nitens (Deane &) Tj ETQq0 0 0 rgBT /Overlock 10	3.6	33
81	Early response of Pinus radiata plantations to weed control and fertilization on metamorphic soils of the Coastal Range, Maule Region, Chile. Bosque, 2008, 29, .	0.2	19
82	Efecto de poda y raleo en el Ã¡rea foliar de Eucalyptus nitens. Bosque, 2008, 29, .	0.2	1
83	Tree Nutrition and Forest Fertilization of Pine Plantations in the Southern United States. Southern Journal of Applied Forestry, 2007, 31, 5-11.	0.4	251
84	Timber investment returns for selected plantations and native forests in South America and the Southern United States. New Forests, 2006, 33, 237-255.	1.2	149
85	Comparison of biomass and nutrient content equations for successive rotations of loblolly pine plantations on an Upper Coastal Plain Site. Biomass and Bioenergy, 2005, 28, 548-564.	5.5	20
86	Radiata pine response to tillage, fertilization, and weed control in Chile. Bosque, 2004, 25, .	0.2	15
87	Predicting parameters of Weibull probability density function for diametric distributions in A. melanoxylon, E. camaldulensis, and E. nitens bioenergy plantation. Dendrobiology, 0, 86, 8-18.	0.2	1
88	Assessment of wildfire-induced hydrological changes in the south andes mountains of chile. Journal of Hydrology, 0, 664, 134533.	6.0	0
89	Carbon fluxes and partitioning in Eucalyptus and Pinus plantations across a climatic gradient in Brazil. Agricultural and Forest Meteorology, 0, 378, 110977.	5.4	0
90	APAR is a better predictor than LUE of the stem growth differences found between Loblolly pine grown in the United State and Brazil. Agricultural and Forest Meteorology, 0, 378, 110964.	5.4	0