

# Antonio Gazol

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106  
papers

2,903  
citations

29  
h-index

50  
g-index

112  
ext. papers

3,938  
ext. citations

5.3  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
106	To die or not to die: early warnings of tree dieback in response to a severe drought. <i>Journal of Ecology</i> , <b>2015</b> , 103, 44-57	6	317
105	Forest resilience to drought varies across biomes. <i>Global Change Biology</i> , <b>2018</b> , 24, 2143-2158	11.4	150
104	Plant height and hydraulic vulnerability to drought and cold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7551-7556	11.5	139
103	Impacts of droughts on the growth resilience of Northern Hemisphere forests. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 166-176	6.1	138
102	Distinct effects of climate warming on populations of silver fir ( <i>Abies alba</i> ) across Europe. <i>Journal of Biogeography</i> , <b>2015</b> , 42, 1150-1162	4.1	103
101	Assessing forest vulnerability to climate warming using a process-based model of tree growth: bad prospects for rear-edges. <i>Global Change Biology</i> , <b>2017</b> , 23, 2705-2719	11.4	89
100	Wood anatomy and carbon-isotope discrimination support long-term hydraulic deterioration as a major cause of drought-induced dieback. <i>Global Change Biology</i> , <b>2016</b> , 22, 2125-37	11.4	86
99	Functional diversity enhances silver fir growth resilience to an extreme drought. <i>Journal of Ecology</i> , <b>2016</b> , 104, 1063-1075	6	84
98	Diverse relationships between forest growth and the Normalized Difference Vegetation Index at a global scale. <i>Remote Sensing of Environment</i> , <b>2016</b> , 187, 14-29	13.2	77
97	Attributing forest responses to global-change drivers: limited evidence of a CO <sub>2</sub> -fertilization effect in Iberian pine growth. <i>Journal of Biogeography</i> , <b>2015</b> , 42, 2220-2233	4.1	71
96	Aleppo pine forests from across Spain show drought-induced growth decline and partial recovery. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 232, 186-194	5.8	65
95	Forest Growth Responses to Drought at Short- and Long-Term Scales in Spain: Squeezing the Stress Memory from Tree Rings. <i>Frontiers in Ecology and Evolution</i> , <b>2018</b> , 6,	3.7	58
94	Disparate effects of global-change drivers on mountain conifer forests: warming-induced growth enhancement in young trees vs. CO <sub>2</sub> fertilization in old trees from wet sites. <i>Global Change Biology</i> , <b>2015</b> , 21, 738-49	11.4	58
93	Past logging, drought and pathogens interact and contribute to forest dieback. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 208, 85-94	5.8	50
92	Resist, recover or both? Growth plasticity in response to drought is geographically structured and linked to intraspecific variability in <i>Pinus pinaster</i> . <i>Journal of Biogeography</i> , <b>2018</b> , 45, 1126-1139	4.1	50
91	Landscape- and small-scale determinants of grassland species diversity: direct and indirect influences. <i>Ecography</i> , <b>2012</b> , 35, 944-951	6.5	48
90	Size Matters a Lot: Drought-Affected Italian Oaks Are Smaller and Show Lower Growth Prior to Tree Death. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 135	6.2	47

89	A negative heterogeneity-diversity relationship found in experimental grassland communities. <i>Oecologia</i> , <b>2013</b> , 173, 545-55	2.9	45
88	Soil nutrient content influences the abundance of soil microbes but not plant biomass at the small-scale. <i>PLoS ONE</i> , <b>2014</b> , 9, e91998	3.7	43
87	Intraspecific competition replaces interspecific facilitation as abiotic stress decreases: The shifting nature of plant-plant interactions. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2013</b> , 15, 226-236	3	43
86	Drought impacts on tree growth of two pine species along an altitudinal gradient and their use as early-warning signals of potential shifts in tree species distributions. <i>Forest Ecology and Management</i> , <b>2016</b> , 381, 157-167	3.9	43
85	Aboveground carbon storage is driven by functional trait composition and stand structural attributes rather than biodiversity in temperate mixed forests recovering from disturbances. <i>Annals of Forest Science</i> , <b>2018</b> , 75, 1	3.1	43
84	Microfragmentation concept explains non-positive environmental heterogeneity-diversity relationships. <i>Oecologia</i> , <b>2013</b> , 171, 217-26	2.9	40
83	Multiple metrics of diversity have different effects on temperate forest functioning over succession. <i>Oecologia</i> , <b>2016</b> , 182, 1175-1185	2.9	36
82	Abiotic and biotic determinants of coarse woody productivity in temperate mixed forests. <i>Science of the Total Environment</i> , <b>2018</b> , 630, 422-431	10.2	33
81	Drought Sensitiveness on Forest Growth in Peninsular Spain and the Balearic Islands. <i>Forests</i> , <b>2018</b> , 9, 524	2.8	33
80	Habitat filtering determines the functional niche occupancy of plant communities worldwide. <i>Journal of Ecology</i> , <b>2018</b> , 106, 1001-1009	6	31
79	Disentangling the climate-driven bimodal growth pattern in coastal and continental Mediterranean pine stands. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 1518-1526	10.2	30
78	Scale specific determinants of tree diversity in an old growth temperate forest in China. <i>Basic and Applied Ecology</i> , <b>2011</b> , 12, 488-495	3.2	30
77	Soil organic carbon in an old-growth temperate forest: Spatial pattern, determinants and bias in its quantification. <i>Geoderma</i> , <b>2013</b> , 195-196, 48-55	6.7	29
76	The functional assembly of experimental grasslands in relation to fertility and resource heterogeneity. <i>Functional Ecology</i> , <b>2014</b> , 28, 509-519	5.6	29
75	Impact of alien pines on local arbuscular mycorrhizal fungal communities-evidence from two continents. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92, fiw073	4.3	29
74	Know your limits? Climate extremes impact the range of Scots pine in unexpected places. <i>Annals of Botany</i> , <b>2015</b> , 116, 917-27	4.1	28
73	What happens below the canopy? Direct and indirect influences of the dominant species on forest vertical layers. <i>Oikos</i> , <b>2012</b> , 121, 1145-1153	4	28
72	Co-occurring grassland species vary in their responses to fine-scale soil heterogeneity. <i>Journal of Vegetation Science</i> , <b>2016</b> , 27, 1012-1022	3.1	27

71	Drought legacies are short, prevail in dry conifer forests and depend on growth variability. <i>Journal of Ecology</i> , <b>2020</b> , 108, 2473-2484	6	27
70	Tracking the impact of drought on functionally different woody plants in a Mediterranean scrubland ecosystem. <i>Plant Ecology</i> , <b>2017</b> , 218, 1009-1020	1.7	26
69	Diverging shrub and tree growth from the Polar to the Mediterranean biomes across the European continent. <i>Global Change Biology</i> , <b>2017</b> , 23, 3169-3180	11.4	26
68	Different response to environmental factors and spatial variables of two attributes (cover and diversity) of the understorey layers. <i>Forest Ecology and Management</i> , <b>2009</b> , 258, 1267-1274	3.9	24
67	Mediterranean dwarf shrubs and coexisting trees present different radial-growth synchronies and responses to climate. <i>Plant Ecology</i> , <b>2012</b> , 213, 1687-1698	1.7	23
66	Post-drought Resilience After Forest Die-Off: Shifts in Regeneration, Composition, Growth and Productivity. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1546	6.2	21
65	Evidence of non-stationary relationships between climate and forest responses: Increased sensitivity to climate change in Iberian forests. <i>Global Change Biology</i> , <b>2020</b> , 26, 5063-5076	11.4	20
64	Within-community environmental variability drives trait variability in species-rich grasslands. <i>Journal of Vegetation Science</i> , <b>2017</b> , 28, 303-312	3.1	20
63	Summer drought and spring frost, but not their interaction, constrain European beech and Silver fir growth in their southern distribution limits. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 278, 107695	5.8	19
62	Geographically Structured Growth decline of Rear-Edge Iberian <i>Fagus sylvatica</i> Forests After the 1980s Shift Toward a Warmer Climate. <i>Ecosystems</i> , <b>2019</b> , 22, 1325-1337	3.9	19
61	Variation of plant diversity in a temperate unmanaged forest in northern Spain: behind the environmental and spatial explanation. <i>Plant Ecology</i> , <b>2010</b> , 207, 1-11	1.7	19
60	Functional diversity differently shapes growth resilience to drought for co-existing pine species. <i>Journal of Vegetation Science</i> , <b>2018</b> , 29, 265-275	3.1	18
59	Drought Decreases Growth and Increases Mortality of Coexisting Native and Introduced Tree Species in a Temperate Floodplain Forest. <i>Forests</i> , <b>2018</b> , 9, 205	2.8	18
58	Competition modulates the response of growth to climate in pure and mixed <i>Abies pinsapo</i> subsp. <i>Maroccana</i> forests in northern Morocco. <i>Forest Ecology and Management</i> , <b>2020</b> , 459, 117847	3.9	18
57	Beneath the canopy: Linking drought-induced forest die off and changes in soil properties. <i>Forest Ecology and Management</i> , <b>2018</b> , 422, 294-302	3.9	17
56	Long-term nutrient imbalances linked to drought-triggered forest dieback. <i>Science of the Total Environment</i> , <b>2019</b> , 690, 1254-1267	10.2	17
55	Global fading of the temperature-growth coupling at alpine and polar treelines. <i>Global Change Biology</i> , <b>2021</b> , 27, 1879-1889	11.4	17
54	Recent decadal drought reverts warming-triggered growth enhancement in contrasting climates in the southern Andes tree line. <i>Journal of Biogeography</i> , <b>2019</b> , 46, 1367	4.1	16

53	Plant species composition in a temperate forest: Multi-scale patterns and determinants. <i>Acta Oecologica</i> , <b>2010</b> , 36, 634-644	1.7	15
52	The performance of Mediterranean subshrubs depends more on microsite than on regional climate conditions. <i>Journal of Vegetation Science</i> , <b>2012</b> , 23, 1062-1070	3.1	14
51	Linking tree-ring growth and satellite-derived gross primary growth in multiple forest biomes. Temporal-scale matters. <i>Ecological Indicators</i> , <b>2020</b> , 108, 105753	5.8	14
50	Alpine Ecology in the Iberian Peninsula: What Do We Know, and What Do We Need to Learn?. <i>Mountain Research and Development</i> , <b>2013</b> , 33, 437-442	1.4	13
49	Climate sensitivity and drought seasonality determine post-drought growth recovery of <i>Quercus petraea</i> and <i>Quercus robur</i> in Europe. <i>Science of the Total Environment</i> , <b>2021</b> , 784, 147222	10.2	13
48	Forecasting Forest Vulnerability to Drought in Pyrenean Silver Fir Forests Showing Dieback. <i>Frontiers in Forests and Global Change</i> , <b>2020</b> , 3,	3.7	11
47	Pattern and dynamics of biomass stock in old growth forests: The role of habitat and tree size. <i>Acta Oecologica</i> , <b>2016</b> , 75, 15-23	1.7	11
46	Delineating limits: Confronting predicted climatic suitability to field performance in mistletoe populations. <i>Journal of Ecology</i> , <b>2018</b> , 106, 2218-2229	6	9
45	Detecting snow-related signals in radial growth of <i>Pinus uncinata</i> mountain forests. <i>Dendrochronologia</i> , <b>2019</b> , 57, 125622	2.8	9
44	Scale-specific determinants of a mixed beech and oak seedling sapling bank under different environmental and biotic conditions. <i>Plant Ecology</i> , <b>2010</b> , 211, 37-48	1.7	9
43	Climate Warming Alters Age-Dependent Growth Sensitivity to Temperature in Eurasian Alpine Treelines. <i>Forests</i> , <b>2018</b> , 9, 688	2.8	9
42	Dieback and mortality of junipers caused by drought: Dissimilar growth and wood isotope patterns preceding shrub death. <i>Agricultural and Forest Meteorology</i> , <b>2020</b> , 291, 108078	5.8	8
41	Changes in plant taxonomic and functional diversity patterns following treeline advances in the South Urals. <i>Plant Ecology and Diversity</i> , <b>2017</b> , 10, 283-292	2.2	8
40	Coupled climate-forest growth shifts in the Chilean Patagonia are decoupled from trends in water-use efficiency. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 259, 222-231	5.8	8
39	Impacts of recurrent dry and wet years alter long-term tree growth trajectories. <i>Journal of Ecology</i> , <b>2021</b> , 109, 1561-1574	6	8
38	The decline of Algerian <i>Cedrus atlantica</i> forests is driven by a climate shift towards drier conditions. <i>Dendrochronologia</i> , <b>2019</b> , 55, 60-70	2.8	7
37	Remaking a stand: Links between genetic diversity and tree growth in expanding Mountain pine populations. <i>Forest Ecology and Management</i> , <b>2020</b> , 472, 118244	3.9	7
36	Compound climate events increase tree drought mortality across European forests. <i>Science of the Total Environment</i> , <b>2021</b> , 151604	10.2	7

35	Climate Differently Impacts the Growth of Coexisting Trees and Shrubs under Semi-Arid Mediterranean Conditions. <i>Forests</i> , <b>2021</b> , 12, 381	2.8	7
34	Tree growth is more limited by drought in rear-edge forests most of the times. <i>Forest Ecosystems</i> , <b>2021</b> , 8,	3.8	7
33	The Multiple Causes of Forest Decline in Spain: Drought, Historical Logging, Competition and Biotic Stressors. <i>Ecological Studies</i> , <b>2017</b> , 307-323	1.1	6
32	Tree Species Are Differently Impacted by Cumulative Drought Stress and Present Higher Growth Synchrony in Dry Places. <i>Frontiers in Forests and Global Change</i> , <b>2020</b> , 3,	3.7	6
31	Drought and cold spells trigger dieback of temperate oak and beech forests in northern Spain. <i>Dendrochronologia</i> , <b>2021</b> , 66, 125812	2.8	6
30	Run to the hills: Forest growth responsiveness to drought increased at higher elevation during the late 20th century. <i>Science of the Total Environment</i> , <b>2021</b> , 772, 145286	10.2	6
29	Scale-dependent effect of biotic interactions and environmental conditions in community assembly: insight from a large temperate forest plot. <i>Plant Ecology</i> , <b>2016</b> , 217, 1003-1014	1.7	5
28	Patterns and Drivers of Pine Processionary Moth Defoliation in Mediterranean Mountain Forests. <i>Frontiers in Ecology and Evolution</i> , <b>2019</b> , 7,	3.7	5
27	Linkages between Climate, Radial Growth and Defoliation in <i>Abies pinsapo</i> Forests from Southern Spain. <i>Forests</i> , <b>2020</b> , 11, 1002	2.8	4
26	Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 733-735	12.3	4
25	The Role of Canopy Cover Dynamics over a Decade of Changes in the Understory of an Atlantic Beech-Oak Forest. <i>Forests</i> , <b>2021</b> , 12, 938	2.8	4
24	High resilience, but low viability, of pine plantations in the face of a shift towards a drier climate. <i>Forest Ecology and Management</i> , <b>2021</b> , 479, 118537	3.9	4
23	Tree-ring density and carbon isotope composition are early-warning signals of drought-induced mortality in the drought tolerant Canary Island pine. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 310, 108634	5.8	4
22	Drought stress and pests increase defoliation and mortality rates in vulnerable <i>Abies pinsapo</i> forests. <i>Forest Ecology and Management</i> , <b>2022</b> , 504, 119824	3.9	3
21	Role of biotic factors and droughts in the forest decline: contributions from dendroecology. <i>Ecosistemas</i> , <b>2015</b> , 24, 15-23	1.7	3
20	The complex multi-sectoral impacts of drought: Evidence from a mountainous basin in the Central Spanish Pyrenees. <i>Science of the Total Environment</i> , <b>2021</b> , 769, 144702	10.2	3
19	Fertilization triggers 11-yr of changes in community assembly in Mediterranean grassland. <i>Journal of Vegetation Science</i> , <b>2016</b> , 27, 728-738	3.1	3
18	Snow dynamics influence tree growth by controlling soil temperature in mountain pine forests. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 296, 108205	5.8	3

17	Differences in temperature sensitivity and drought recovery between natural stands and plantations of conifers are species-specific. <i>Science of the Total Environment</i> , <b>2021</b> , 796, 148930	10.2	3
16	Mediterranean old-growth forests exhibit resistance to climate warming. <i>Science of the Total Environment</i> , <b>2021</b> , 801, 149684	10.2	3
15	Tree growth response to drought partially explains regional-scale growth and mortality patterns in Iberian forests.. <i>Ecological Applications</i> , <b>2022</b> , e2589	4.9	3
14	Drought Drives Growth and Mortality Rates in Three Pine Species under Mediterranean Conditions. <i>Forests</i> , <b>2021</b> , 12, 1700	2.8	3
13	Effects of Windthrows on Forest Cover, Tree Growth and Soil Characteristics in Drought-Prone Pine Plantations. <i>Forests</i> , <b>2021</b> , 12, 817	2.8	2
12	Land-use practices (coppices and dehesas) and management intensity modulate responses of Holm oak growth to drought. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 297, 108235	5.8	2
11	Modeling Climate Impacts on Tree Growth to Assess Tree Vulnerability to Drought During Forest Dieback. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 672855	6.2	2
10	Pine processionary moth outbreaks cause longer growth legacies than drought and are linked to the North Atlantic Oscillation.. <i>Science of the Total Environment</i> , <b>2022</b> , 819, 153041	10.2	1
9	Effects of Global Change on Tree Growth and Vigor of Mediterranean Pines. <i>Managing Forest Ecosystems</i> , <b>2021</b> , 237-249	0.7	1
8	Will silver fir be under higher risk due to drought? A comment on Walder et al. (2021). <i>Forest Ecology and Management</i> , <b>2021</b> , 503, 119826	3.9	1
7	Tree growth and treeline responses to temperature: Different questions and concepts. <i>Global Change Biology</i> , <b>2021</b> , 27, e13-e14	11.4	1
6	Silver fir growth responses to drought depend on interactions between tree characteristics, soil and neighbourhood features. <i>Forest Ecology and Management</i> , <b>2021</b> , 480, 118625	3.9	1
5	Climate windows of intra-annual growth and post-drought recovery in Mediterranean trees. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 308-309, 108606	5.8	1
4	Intraspecific trait variation, growth, and altered soil conditions at tree species distribution limits: From the alpine treeline to the rear edge. <i>Agricultural and Forest Meteorology</i> , <b>2022</b> , 315, 108811	5.8	0
3	Drivers of a riparian forest specialist ( <i>Carex remota</i> , Cyperaceae): it is not only a matter of soil moisture. <i>American Journal of Botany</i> , <b>2014</b> , 101, 1286-92	2.7	
2	Shifting Precipitation Patterns Drive Growth Variability and Drought Resilience of European Atlas Cedar Plantations. <i>Forests</i> , <b>2021</b> , 12, 1751	2.8	
1	Climate change and forest health: Detecting dieback hotspots <b>2022</b> , 99-106		