Antonio Gazol

List of Publications by Year in Descending Order

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	Intraspecific trait variation, growth, and altered soil conditions at tree species distribution limits: From the alpine treeline to the rear edge. *Agricultural and Forest Meteorology*, **2022**, 315, 108811	5.8	0
105	Pine processionary moth outbreaks cause longer growth legacies than drought and are linked to the North Atlantic Oscillation.. *Science of the Total Environment*, **2022**, 819, 153041	10.2	1
104	Drought stress and pests increase defoliation and mortality rates in vulnerable Abies pinsapo forests. *Forest Ecology and Management*, **2022**, 504, 119824	3.9	3
103	Tree growth response to drought partially explains regional-scale growth and mortality patterns in Iberian forests.. *Ecological Applications*, **2022**, e2589	4.9	3
102	Climate change and forest health: Detecting dieback hotspots **2022**, 99-106		
101	Compound climate events increase tree drought mortality across European forests. *Science of the Total Environment*, **2021**, 151604	10.2	7
100	Effects of Global Change on Tree Growth and Vigor of Mediterranean Pines. *Managing Forest Ecosystems*, **2021**, 237-249	0.7	1
99	Will silver fir be under higher risk due to drought? A comment on Walder et al. (2021). *Forest Ecology and Management*, **2021**, 503, 119826	3.9	1
98	Climate Differently Impacts the Growth of Coexisting Trees and Shrubs under Semi-Arid Mediterranean Conditions. *Forests*, **2021**, 12, 381	2.8	7
97	Tree growth is more limited by drought in rear-edge forests most of the times. *Forest Ecosystems*, **2021**, 8,	3.8	7
96	Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. *Nature Ecology and Evolution*, **2021**, 5, 733-735	12.3	4
95	Drought and cold spells trigger dieback of temperate oak and beech forests in northern Spain. *Dendrochronologia*, **2021**, 66, 125812	2.8	6
94	The complex multi-sectoral impacts of drought: Evidence from a mountainous basin in the Central Spanish Pyrenees. *Science of the Total Environment*, **2021**, 769, 144702	10.2	3
93	Tree growth and treeline responses to temperature: Different questions and concepts. *Global Change Biology*, **2021**, 27, e13-e14	11.4	1
92	Run to the hills: Forest growth responsiveness to drought increased at higher elevation during the late 20th century. *Science of the Total Environment*, **2021**, 772, 145286	10.2	6
91	Effects of Windthrows on Forest Cover, Tree Growth and Soil Characteristics in Drought-Prone Pine Plantations. *Forests*, **2021**, 12, 817	2.8	2
90	The Role of Canopy Cover Dynamics over a Decade of Changes in the Understory of an Atlantic Beech-Oak Forest. *Forests*, **2021**, 12, 938	2.8	4

89	Silver fir growth responses to drought depend on interactions between tree characteristics, soil and neighbourhood features. *Forest Ecology and Management*, **2021**, 480, 118625	3.9	1
88	Snow dynamics influence tree growth by controlling soil temperature in mountain pine forests. *Agricultural and Forest Meteorology*, **2021**, 296, 108205	5.8	3
87	High resilience, but low viability, of pine plantations in the face of a shift towards a drier climate. *Forest Ecology and Management*, **2021**, 479, 118537	3.9	4
86	Land-use practices (coppices and dehesas) and management intensity modulate responses of Holm oak growth to drought. *Agricultural and Forest Meteorology*, **2021**, 297, 108235	5.8	2
85	Global fading of the temperature-growth coupling at alpine and polar treelines. *Global Change Biology*, **2021**, 27, 1879-1889	11.4	17
84	Climate sensitivity and drought seasonality determine post-drought growth recovery of Quercus petraea and Quercus robur in Europe. *Science of the Total Environment*, **2021**, 784, 147222	10.2	13
83	Modeling Climate Impacts on Tree Growth to Assess Tree Vulnerability to Drought During Forest Dieback. *Frontiers in Plant Science*, **2021**, 12, 672855	6.2	2
82	Climate windows of intra-annual growth and post-drought recovery in Mediterranean trees. *Agricultural and Forest Meteorology*, **2021**, 308-309, 108606	5.8	1
81	Differences in temperature sensitivity and drought recovery between natural stands and plantations of conifers are species-specific. *Science of the Total Environment*, **2021**, 796, 148930	10.2	3
80	Tree-ring density and carbon isotope composition are early-warning signals of drought-induced mortality in the drought tolerant Canary Island pine. *Agricultural and Forest Meteorology*, **2021**, 310, 108634	5.8	4
79	Mediterranean old-growth forests exhibit resistance to climate warming. *Science of the Total Environment*, **2021**, 801, 149684	10.2	3
78	Impacts of recurrent dry and wet years alter long-term tree growth trajectories. *Journal of Ecology*, **2021**, 109, 1561-1574	6	8
77	Shifting Precipitation Patterns Drive Growth Variability and Drought Resilience of European Atlas Cedar Plantations. *Forests*, **2021**, 12, 1751	2.8	
76	Drought Drives Growth and Mortality Rates in Three Pine Species under Mediterranean Conditions. *Forests*, **2021**, 12, 1700	2.8	3
75	Forecasting Forest Vulnerability to Drought in Pyrenean Silver Fir Forests Showing Dieback. *Frontiers in Forests and Global Change*, **2020**, 3,	3.7	11
74	Evidence of non-stationary relationships between climate and forest responses: Increased sensitivity to climate change in Iberian forests. *Global Change Biology*, **2020**, 26, 5063-5076	11.4	20
73	Dieback and mortality of junipers caused by drought: Dissimilar growth and wood isotope patterns preceding shrub death. *Agricultural and Forest Meteorology*, **2020**, 291, 108078	5.8	8
72	Remaking a stand: Links between genetic diversity and tree growth in expanding Mountain pine populations. *Forest Ecology and Management*, **2020**, 472, 118244	3.9	7

71	Drought legacies are short, prevail in dry conifer forests and depend on growth variability. *Journal of Ecology*, **2020**, 108, 2473-2484	6	27
70	Competition modulates the response of growth to climate in pure and mixed Abies pinsapo subsp. Maroccana forests in northern Morocco. *Forest Ecology and Management*, **2020**, 459, 117847	3.9	18
69	Linkages between Climate, Radial Growth and Defoliation in Abies pinsapo Forests from Southern Spain. *Forests*, **2020**, 11, 1002	2.8	4
68	Tree Species Are Differently Impacted by Cumulative Drought Stress and Present Higher Growth Synchrony in Dry Places. *Frontiers in Forests and Global Change*, **2020**, 3,	3.7	6
67	Linking tree-ring growth and satellite-derived gross primary growth in multiple forest biomes. Temporal-scale matters. *Ecological Indicators*, **2020**, 108, 105753	5.8	14
66	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	5.8	19
65	Geographically Structured Growth decline of Rear-Edge Iberian Fagus sylvatica Forests After the 1980s Shift Toward a Warmer Climate. *Ecosystems*, **2019**, 22, 1325-1337	3.9	19
64	Recent decadal drought reverts warming-triggered growth enhancement in contrasting climates in the southern Andes tree line. *Journal of Biogeography*, **2019**, 46, 1367	4.1	16
63	The decline of Algerian Cedrus atlantica forests is driven by a climate shift towards drier conditions. *Dendrochronologia*, **2019**, 55, 60-70	2.8	7
62	Detecting snow-related signals in radial growth of Pinus uncinata mountain forests. *Dendrochronologia*, **2019**, 57, 125622	2.8	9
61	Long-term nutrient imbalances linked to drought-triggered forest dieback. *Science of the Total Environment*, **2019**, 690, 1254-1267	10.2	17
60	Patterns and Drivers of Pine Processionary Moth Defoliation in Mediterranean Mountain Forests. *Frontiers in Ecology and Evolution*, **2019**, 7,	3.7	5
59	Forest resilience to drought varies across biomes. *Global Change Biology*, **2018**, 24, 2143-2158	11.4	150
58	Abiotic and biotic determinants of coarse woody productivity in temperate mixed forests. *Science of the Total Environment*, **2018**, 630, 422-431	10.2	33
57	Delineating limits: Confronting predicted climatic suitability to field performance in mistletoe populations. *Journal of Ecology*, **2018**, 106, 2218-2229	6	9
56	Functional diversity differently shapes growth resilience to drought for co-existing pine species. *Journal of Vegetation Science*, **2018**, 29, 265-275	3.1	18
55	Beneath the canopy: Linking drought-induced forest die off and changes in soil properties. *Forest Ecology and Management*, **2018**, 422, 294-302	3.9	17
54	Habitat filtering determines the functional niche occupancy of plant communities worldwide. *Journal of Ecology*, **2018**, 106, 1001-1009	6	31

53	Disentangling the climate-driven bimodal growth pattern in coastal and continental Mediterranean pine stands. *Science of the Total Environment*, **2018**, 615, 1518-1526	10.2	30
52	Forest Growth Responses to Drought at Short- and Long-Term Scales in Spain: Squeezing the Stress Memory from Tree Rings. *Frontiers in Ecology and Evolution*, **2018**, 6,	3.7	58
51	Drought Decreases Growth and Increases Mortality of Coexisting Native and Introduced Tree Species in a Temperate Floodplain Forest. *Forests*, **2018**, 9, 205	2.8	18
50	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	4.1	50
49	Climate Warming Alters Age-Dependent Growth Sensitivity to Temperature in Eurasian Alpine Treelines. *Forests*, **2018**, 9, 688	2.8	9
48	Post-drought Resilience After Forest Die-Off: Shifts in Regeneration, Composition, Growth and Productivity. *Frontiers in Plant Science*, **2018**, 9, 1546	6.2	21
47	Drought Sensitiveness on Forest Growth in Peninsular Spain and the Balearic Islands. *Forests*, **2018**, 9, 524	2.8	33
46	Coupled climate–forest growth shifts in the Chilean Patagonia are decoupled from trends in water-use efficiency. *Agricultural and Forest Meteorology*, **2018**, 259, 222-231	5.8	8
45	Plant height and hydraulic vulnerability to drought and cold. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7551-7556	11.5	139
44	Aboveground carbon storage is driven by functional trait composition and stand structural attributes rather than biodiversity in temperate mixed forests recovering from disturbances. *Annals of Forest Science*, **2018**, 75, 1	3.1	43
43	Tracking the impact of drought on functionally different woody plants in a Mediterranean scrubland ecosystem. *Plant Ecology*, **2017**, 218, 1009-1020	1.7	26
42	The Multiple Causes of Forest Decline in Spain: Drought, Historical Logging, Competition and Biotic Stressors. *Ecological Studies*, **2017**, 307-323	1.1	6
41	Changes in plant taxonomic and functional diversity patterns following treeline advances in the South Urals. *Plant Ecology and Diversity*, **2017**, 10, 283-292	2.2	8
40	Assessing forest vulnerability to climate warming using a process-based model of tree growth: bad prospects for rear-edges. *Global Change Biology*, **2017**, 23, 2705-2719	11.4	89
39	Aleppo pine forests from across Spain show drought-induced growth decline and partial recovery. *Agricultural and Forest Meteorology*, **2017**, 232, 186-194	5.8	65
38	Impacts of droughts on the growth resilience of Northern Hemisphere forests. *Global Ecology and Biogeography*, **2017**, 26, 166-176	6.1	138
37	Diverging shrub and tree growth from the Polar to the Mediterranean biomes across the European continent. *Global Change Biology*, **2017**, 23, 3169-3180	11.4	26
36	Within-community environmental variability drives trait variability in species-rich grasslands. *Journal of Vegetation Science*, **2017**, 28, 303-312	3.1	20

35	Size Matters a Lot: Drought-Affected Italian Oaks Are Smaller and Show Lower Growth Prior to Tree Death. *Frontiers in Plant Science*, **2017**, 8, 135	6.2	47
34	Co-occurring grassland species vary in their responses to fine-scale soil heterogeneity. *Journal of Vegetation Science*, **2016**, 27, 1012-1022	3.1	27
33	Wood anatomy and carbon-isotope discrimination support long-term hydraulic deterioration as a major cause of drought-induced dieback. *Global Change Biology*, **2016**, 22, 2125-37	11.4	86
32	Scale-dependent effect of biotic interactions and environmental conditions in community assembly: insight from a large temperate forest plot. *Plant Ecology*, **2016**, 217, 1003-1014	1.7	5
31	Fertilization triggers 11□yr of changes in community assembly in Mediterranean grassland. *Journal of Vegetation Science*, **2016**, 27, 728-738	3.1	3
30	Pattern and dynamics of biomass stock in old growth forests: The role of habitat and tree size. *Acta Oecologica*, **2016**, 75, 15-23	1.7	11
29	Functional diversity enhances silver fir growth resilience to an extreme drought. *Journal of Ecology*, **2016**, 104, 1063-1075	6	84
28	Impact of alien pines on local arbuscular mycorrhizal fungal communities-evidence from two continents. *FEMS Microbiology Ecology*, **2016**, 92, fiw073	4.3	29
27	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. *Forest Ecology and Management*, **2016**, 381, 157-167	3.9	43
26	Multiple metrics of diversity have different effects on temperate forest functioning over succession. *Oecologia*, **2016**, 182, 1175-1185	2.9	36
25	Diverse relationships between forest growth and the Normalized Difference Vegetation Index at a global scale. *Remote Sensing of Environment*, **2016**, 187, 14-29	13.2	77
24	Past logging, drought and pathogens interact and contribute to forest dieback. *Agricultural and Forest Meteorology*, **2015**, 208, 85-94	5.8	50
23	Distinct effects of climate warming on populations of silver fir (Abies alba) across Europe. *Journal of Biogeography*, **2015**, 42, 1150-1162	4.1	103
22	Know your limits? Climate extremes impact the range of Scots pine in unexpected places. *Annals of Botany*, **2015**, 116, 917-27	4.1	28
21	To die or not to die: early warnings of tree dieback in response to a severe drought. *Journal of Ecology*, **2015**, 103, 44-57	6	317
20	Attributing forest responses to global-change drivers: limited evidence of a CO2-fertilization effect in Iberian pine growth. *Journal of Biogeography*, **2015**, 42, 2220-2233	4.1	71
19	Disparate effects of global-change drivers on mountain conifer forests: warming-induced growth enhancement in young trees vs. CO2 fertilization in old trees from wet sites. *Global Change Biology*, **2015**, 21, 738-49	11.4	58
18	Role of biotic factors and droughts in the forest decline: contributions from dendroecology. *Ecosistemas*, **2015**, 24, 15-23	1.7	3

17	Soil nutrient content influences the abundance of soil microbes but not plant biomass at the small-scale. *PLoS ONE*, **2014**, 9, e91998	3.7	43
16	Drivers of a riparian forest specialist (Carex remota, Cyperaceae): it is not only a matter of soil moisture. *American Journal of Botany*, **2014**, 101, 1286-92	2.7	
15	The functional assembly of experimental grasslands in relation to fertility and resource heterogeneity. *Functional Ecology*, **2014**, 28, 509-519	5.6	29
14	A negative heterogeneity-diversity relationship found in experimental grassland communities. *Oecologia*, **2013**, 173, 545-55	2.9	45
13	Microfragmentation concept explains non-positive environmental heterogeneity-diversity relationships. *Oecologia*, **2013**, 171, 217-26	2.9	40
12	Soil organic carbon in an old-growth temperate forest: Spatial pattern, determinants and bias in its quantification. *Geoderma*, **2013**, 195-196, 48-55	6.7	29
11	Intraspecific competition replaces interspecific facilitation as abiotic stress decreases: The shifting nature of plant□plant interactions. *Perspectives in Plant Ecology, Evolution and Systematics*, **2013**, 15, 226-236	3	43
10	Alpine Ecology in the Iberian Peninsula: What Do We Know, and What Do We Need to Learn?. *Mountain Research and Development*, **2013**, 33, 437-442	1.4	13
9	The performance of Mediterranean subshrubs depends more on microsite than on regional climate conditions. *Journal of Vegetation Science*, **2012**, 23, 1062-1070	3.1	14
8	What happens below the canopy? Direct and indirect influences of the dominant species on forest vertical layers. *Oikos*, **2012**, 121, 1145-1153	4	28
7	Landscape- and small-scale determinants of grassland species diversity: direct and indirect influences. *Ecography*, **2012**, 35, 944-951	6.5	48
6	Mediterranean dwarf shrubs and coexisting trees present different radial-growth synchronies and responses to climate. *Plant Ecology*, **2012**, 213, 1687-1698	1.7	23
5	Scale specific determinants of tree diversity in an old growth temperate forest in China. *Basic and Applied Ecology*, **2011**, 12, 488-495	3.2	30
4	Plant species composition in a temperate forest: Multi-scale patterns and determinants. *Acta Oecologica*, **2010**, 36, 634-644	1.7	15
3	Variation of plant diversity in a temperate unmanaged forest in northern Spain: behind the environmental and spatial explanation. *Plant Ecology*, **2010**, 207, 1-11	1.7	19
2	Scale-specific determinants of a mixed beech and oak seedling□sapling bank under different environmental and biotic conditions. *Plant Ecology*, **2010**, 211, 37-48	1.7	9
1	Different response to environmental factors and spatial variables of two attributes (cover and diversity) of the understorey layers. *Forest Ecology and Management*, **2009**, 258, 1267-1274	3.9	24