

# Giorgio Vacchiano

## List of Publications by Year in descending order

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85  
papers

4,493  
citations

159585

30  
h-index

114465

63  
g-index

100  
all docs

100  
docs citations

100  
times ranked

5779  
citing authors

#	ARTICLE	IF	CITATIONS
1	Forest disturbances under climate change. <i>Nature Climate Change</i> , 2017, 7, 395-402.	18.8	1,561
2	Driving factors of a vegetation shift from Scots pine to pubescent oak in dry Alpine forests. <i>Global Change Biology</i> , 2013, 19, 229-240.	9.5	280
3	Generalized biomass and leaf area allometric equations for European tree species incorporating stand structure, tree age and climate. <i>Forest Ecology and Management</i> , 2017, 396, 160-175.	3.2	219
4	A walk on the wild side: Disturbance dynamics and the conservation and management of European mountain forest ecosystems. <i>Forest Ecology and Management</i> , 2017, 388, 120-131.	3.2	172
5	Tree mortality submodels drive simulated long-term forest dynamics: assessing 15 models from the stand to global scale. <i>Ecosphere</i> , 2019, 10, e02616.	2.2	93
6	Climatically controlled reproduction drives interannual growth variability in a temperate tree species. <i>Ecology Letters</i> , 2018, 21, 1833-1844.	6.4	92
7	Spatial patterns and broad-scale weather cues of beech mast seeding in Europe. <i>New Phytologist</i> , 2017, 215, 595-608.	7.3	86
8	Forest carbon allocation modelling under climate change. <i>Tree Physiology</i> , 2019, 39, 1937-1960.	3.1	70
9	From theory to experiments for testing the proximate mechanisms of mast seeding: an agenda for an experimental ecology. <i>Ecology Letters</i> , 2020, 23, 210-220.	6.4	64
10	Available and missing data to model impact of climate change on European forests. <i>Ecological Modelling</i> , 2020, 416, 108870.	2.5	58
11	Inter-annual and decadal changes in teleconnections drive continental-scale synchronization of tree reproduction. <i>Nature Communications</i> , 2017, 8, 2205.	12.8	56
12	Geographical adaptation prevails over species-specific determinism in trees' vulnerability to climate change at Mediterranean rear-edge forests. <i>Global Change Biology</i> , 2019, 25, 1296-1314.	9.5	55
13	Evidences of drought stress as a predisposing factor to Scots pine decline in Valle d'Aosta (Italy). <i>European Journal of Forest Research</i> , 2012, 131, 989-1000.	2.5	54
14	Reproducing reproduction: How to simulate mast seeding in forest models. <i>Ecological Modelling</i> , 2018, 376, 40-53.	2.5	53
15	Nutrient scarcity as a selective pressure for mast seeding. <i>Nature Plants</i> , 2019, 5, 1222-1228.	9.3	53
16	Forest dynamics and disturbance regimes in the Italian Apennines. <i>Forest Ecology and Management</i> , 2017, 388, 57-66.	3.2	50
17	Analysis of intraspecific competition in two subalpine Norway spruce ( <i>Picea abies</i> (L.) Karst.) stands in Paneveggio (Trento, Italy). <i>Forest Ecology and Management</i> , 2008, 255, 651-659.	3.2	48
18	Two centuries of masting data for European beech and Norway spruce across the European continent. <i>Ecology</i> , 2017, 98, 1473-1473.	3.2	47

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19	Precision restoration: a necessary approach to foster forest recovery in the 21st century. <i>Restoration Ecology</i> , 2021, 29, e13421.	2.9	45
20	Is there tree senescence? The fecundity evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	42
21	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.	3.2	40
22	Meta-analysis Reveals Different Competition Effects on Tree Growth Resistance and Resilience to Drought. <i>Ecosystems</i> , 2022, 25, 30-43.	3.4	40
23	Scaling issues in forest ecosystem management and how to address them with models. <i>European Journal of Forest Research</i> , 2013, 132, 653-666.	2.5	39
24	Development of old-growth characteristics in uneven-aged forests of the Italian Alps. <i>European Journal of Forest Research</i> , 2015, 134, 19-31.	2.5	39
25	Tackling unresolved questions in forest ecology: The past and future role of simulation models. <i>Ecology and Evolution</i> , 2021, 11, 3746-3770.	1.9	37
26	The ecology and evolution of synchronized reproduction in long-lived plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200369.	4.0	36
27	Fire severity, residuals and soil legacies affect regeneration of Scots pine in the Southern Alps. <i>Science of the Total Environment</i> , 2014, 472, 778-788.	8.0	35
28	Modeling anthropogenic and natural fire ignitions in an inner-alpine valley. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 935-948.	3.6	35
29	Climate teleconnections synchronize <i>Picea glauca</i> masting and fire disturbance: Evidence for a fire-related form of environmental prediction. <i>Journal of Ecology</i> , 2020, 108, 1186-1198.	4.0	35
30	Temperature and masting control Norway spruce growth, but with high individual tree variability. <i>Forest Ecology and Management</i> , 2019, 438, 142-150.	3.2	34
31	How robust are future projections of forest landscape dynamics? Insights from a systematic comparison of four forest landscape models. <i>Environmental Modelling and Software</i> , 2020, 134, 104844.	4.5	34
32	The synchronicity of masting and intermediate severity fire effects favors beech recruitment. <i>Forest Ecology and Management</i> , 2015, 353, 126-135.	3.2	30
33	Effects of forest management on ground beetle diversity in alpine beech ( <i>Fagus sylvatica</i> L.) stands. <i>Forest Ecology and Management</i> , 2014, 328, 300-309.	3.2	28
34	A density management diagram for Scots pine ( <i>Pinus sylvestris</i> L.): A tool for assessing the forest's protective effect. <i>Forest Ecology and Management</i> , 2008, 255, 2542-2554.	3.2	27
35	Large-scale atmospheric circulation enhances the Mediterranean East-West tree growth contrast at rear-edge deciduous forests. <i>Agricultural and Forest Meteorology</i> , 2017, 239, 86-95.	4.8	27
36	Species-specific, pan-European diameter increment models based on data of 2.3 million trees. <i>Forest Ecosystems</i> , 2018, 5, .	3.1	27

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37	Diachronic analysis of individual-tree mortality in a Norway spruce stand in the eastern Italian Alps. <i>Annals of Forest Science</i> , 2010, 67, 304-304.	2.0	26
38	Modeling Italian forests: state of the art and future challenges. <i>IForest</i> , 2012, 5, 113-120.	1.4	26
39	Interactions between climate, growth and seed production in Spanish black pine ( <i>Pinus nigra</i> Arn. ssp.) <i>Tj ETQq1 1 0,784314 ggBT /Ov</i>	1.7	26
40	A comprehensive framework of forest stand propertyâ€“density relationships: perspectives for plant population ecology and forest management. <i>Annals of Forest Science</i> , 2014, 71, 325-335.	2.0	23
41	Building Rothermel fire behaviour fuel models by genetic algorithm optimisation. <i>International Journal of Wildland Fire</i> , 2015, 24, 317.	2.4	22
42	An Implementation of the Rothermel Fire Spread Model in the R Programming Language. <i>Fire Technology</i> , 2015, 51, 523-535.	3.0	22
43	Comparison of integrative nature conservation in forest policy in Europe: a qualitative pilot study of institutional determinants. <i>Biodiversity and Conservation</i> , 2014, 23, 3425-3450.	2.6	21
44	Effect of avalanche frequency on forest ecosystem services in a spruceâ€“fir mountain forest. <i>Cold Regions Science and Technology</i> , 2015, 115, 9-21.	3.5	21
45	Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. <i>Nature Communications</i> , 2022, 13, 2381.	12.8	21
46	A density management diagram for Norway spruce in the temperate European montane region. <i>European Journal of Forest Research</i> , 2013, 132, 535-549.	2.5	20
47	An improved species distribution model for Scots pine and downy oak under future climate change in the NW Italian Alps. <i>Annals of Forest Science</i> , 2015, 72, 321-334.	2.0	20
48	The 63-year changes in annual streamflow volumes across Europe with a focus on the Mediterranean basin. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5589-5601.	4.9	20
49	Assessing the Effect of Disturbances on the Functionality of Direct Protection Forests. <i>Mountain Research and Development</i> , 2016, 36, 41.	1.0	19
50	MASTREE+: Timeâ€“series of plant reproductive effort from six continents. <i>Global Change Biology</i> , 2022, 28, 3066-3082.	9.5	19
51	Repeated spring precipitation shortage alters individual growth patterns in Scots pine forests in the Western Alps. <i>Trees - Structure and Function</i> , 2015, 29, 1699-1712.	1.9	18
52	An integrated approach to assess carbon credit from improved forest management. <i>Journal of Sustainable Forestry</i> , 2019, 38, 31-45.	1.4	17
53	Stand and coarse woody debris dynamics in subalpine Norway spruce forests withdrawn from regular management. <i>Annals of Forest Science</i> , 2010, 67, 803-803.	2.0	16
54	Frequent coppicing deteriorates the conservation status of black alder forests in the Po plain (northern Italy). <i>Forest Ecology and Management</i> , 2016, 382, 31-38.	3.2	16

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55	Resilience of European larch ( <i>Larix decidua</i> Mill.) forests to wildfires in the western Alps. <i>New Forests</i> , 2017, 48, 663-683.	1.7	16
56	Effects of tree spacing and thinning on root reinforcement in mountain forests of the European Southern Alps. <i>Forest Ecology and Management</i> , 2021, 482, 118873.	3.2	16
57	Harmonized dataset of surface fuels under Alpine, temperate and Mediterranean conditions in Italy. A synthesis supporting fire management. <i>IForest</i> , 2020, 13, 513-522.	1.4	16
58	Application of vegetation index time series to value fire effect on primary production in a Southern European rare wetland. <i>Ecological Engineering</i> , 2019, 134, 9-17.	3.6	14
59	Douglas-fir climate sensitivity at two contrasting sites along the southern limit of the European planting range. <i>Journal of Forestry Research</i> , 2020, 31, 2193-2204.	3.6	14
60	The role of beliefs, expectations and values in decision-making favoring climate change adaptation—implications for communications with European forest professionals. <i>Environmental Research Letters</i> , 2020, 15, 114061.	5.2	14
61	Voluntary carbon credits from improved forest management: policy guidelines and case study. <i>IForest</i> , 2018, 11, 1-10.	1.4	14
62	Natural disturbances and masting: from mechanisms to fitness consequences. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200384.	4.0	14
63	Modes of climate variability bridge proximate and evolutionary mechanisms of masting. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200380.	4.0	14
64	Monitoring and modeling the invasion of the fast spreading alien <i>Senecio inaequidens</i> DC. in an alpine region. <i>Plant Biosystems</i> , 2013, 147, 1139-1147.	1.6	12
65	Drivers of <i>Pinus sylvestris</i> L. regeneration following small, high-severity fire in a dry, inner-alpine valley. <i>Plant Biosystems</i> , 2015, 149, 354-363.	1.6	12
66	Effects of Twenty Years of Ungulate Browsing on Forest Regeneration at Paneveggio Reserve, Italy. <i>Forests</i> , 2020, 11, 612.	2.1	12
67	Calibrating and Testing the Forest Vegetation Simulator to Simulate Tree Encroachment and Control Measures for Heathland Restoration in Southern Europe. <i>Forest Science</i> , 2014, 60, 241-252.	1.0	11
68	Globally, tree fecundity exceeds productivity gradients. <i>Ecology Letters</i> , 2022, 25, 1471-1482.	6.4	11
69	The effect of forest management on endangered insects assessed by radio-tracking: The case of the ground beetle <i>Carabus olympiae</i> in European beech <i>Fagus sylvatica</i> stands. <i>Forest Ecology and Management</i> , 2017, 406, 125-137.	3.2	10
70	Projecting Nonnative Douglas Fir Plantations in Southern Europe with the Forest Vegetation Simulator. <i>Forest Science</i> , 2017, 63, 101-110.	1.0	10
71	Effect of stand-replacing fires on Mediterranean plant species in their marginal alpine range. <i>Alpine Botany</i> , 2013, 123, 123-133.	2.4	9
72	No polarization—Expected Values of Climate Change Impacts among European Forest Professionals and Scientists. <i>Sustainability</i> , 2020, 12, 2659.	3.2	9

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73	Effects of the lack of forest management on spatiotemporal dynamics of a subalpine <i>Pinus cembra</i> forest. <i>Scandinavian Journal of Forest Research</i> , 2017, 32, 142-153.	1.4	8
74	Alternative stable states in mountain forest ecosystems: the case of European larch ( <i>Larix decidua</i> ) forests in the western Alps. <i>Journal of Mountain Science</i> , 2017, 14, 811-822.	2.0	8
75	Inconsistent recognition of uncertainty in studies of climate change impacts on forests. <i>Environmental Research Letters</i> , 2019, 14, 113003.	5.2	8
76	Temporal Dynamics of Root Reinforcement in European Spruce Forests. <i>Forests</i> , 2021, 12, 815.	2.1	8
77	Assessing the availability of forest biomass for bioenergy by publicly available satellite imagery. <i>IForest</i> , 2018, 11, 459-468.	1.4	7
78	Vegetative regeneration of beech coppices for biomass in Piedmont, NW Italy. <i>Biomass and Bioenergy</i> , 2017, 107, 271-278.	5.7	6
79	Reply to: Nutrient scarcity cannot cause mast seeding. <i>Nature Plants</i> , 2020, 6, 763-765.	9.3	6
80	Integrating Remote and In-Situ Data to Assess the Hydrological Response of a Post-Fire Watershed. <i>Hydrology</i> , 2021, 8, 169.	3.0	6
81	Contrasting responses of forest growth and carbon sequestration to heat and drought in the Alps. <i>Environmental Research Letters</i> , 2022, 17, 045015.	5.2	6
82	Point pattern analysis of crown-to-crown interactions in mountain forests. <i>Procedia Environmental Sciences</i> , 2011, 7, 269-274.	1.4	5
83	Resprouting in European beech confers resilience to high-frequency fire. <i>Forestry</i> , 2023, 96, 372-386.	2.3	4
84	Calibrating Rothermel's fuel models by genetic algorithms. , 0, , 102-106.		2
85	A Study Of Coppicing In Beech Trees. , 2018, , .		0