

Giovanna Battipaglia

List of Publications by Year in descending order

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88
papers

3,639
citations

117453

34
h-index

143772

57
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109
all docs

109
docs citations

109
times ranked

4140
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021, 229, 2413-2445.	3.5	286
2	Elevated CO ₂ increases tree-level intrinsic water use efficiency: insights from carbon and oxygen isotope analyses in tree rings across three forest FACE sites. <i>New Phytologist</i> , 2013, 197, 544-554.	3.5	210
3	Feedback interactions between needle litter decomposition and rhizosphere activity. <i>Oecologia</i> , 2004, 139, 551-559.	0.9	193
4	Seasonal transfer of oxygen isotopes from precipitation and soil to the tree ring: source water versus needle water enrichment. <i>New Phytologist</i> , 2014, 202, 772-783.	3.5	171
5	Variations of vessel diameter and $\delta^{13}C$ in false rings of <i>Arbutus unedo</i> L. reflect different environmental conditions. <i>New Phytologist</i> , 2010, 188, 1099-1112.	3.5	121
6	INTRA-ANNUAL DENSITY FLUCTUATIONS IN TREE RINGS: HOW, WHEN, WHERE, AND WHY?. <i>IAWA Journal</i> , 2016, 37, 232-259.	2.7	119
7	A dynamic leaf gas-exchange strategy is conserved in woody plants under changing ambient CO ₂ : evidence from carbon isotope discrimination in paleo and CO ₂ enrichment studies. <i>Global Change Biology</i> , 2016, 22, 889-902.	4.2	106
8	Tree rings indicate different drought resistance of a native (<i>Abies alba</i> Mill.) and a nonnative (<i>Picea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2009, 257, 820-828.	1.4	103
9	Drought impact on water use efficiency and intra-annual density fluctuations in <i>Erica arborea</i> on <i>E. lba</i> (<i>I. taly</i>). <i>Plant, Cell and Environment</i> , 2014, 37, 382-391.	2.8	102
10	Low-frequency noise in $\delta^{13}C$ and $\delta^{18}O$ tree ring data: A case study of <i>Pinus uncinata</i> in the Spanish Pyrenees. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	91
11	From xylogenesis to tree rings: wood traits to investigate tree response to environmental changes. <i>IAWA Journal</i> , 2019, 40, 155-182.	2.7	85
12	Structure and Function of Intra-Annual Density Fluctuations: Mind the Gaps. <i>Frontiers in Plant Science</i> , 2016, 7, 595.	1.7	72
13	A multi-proxy assessment of dieback causes in a Mediterranean oak species. <i>Tree Physiology</i> , 2017, 37, 617-631.	1.4	69
14	Plant respiration: Controlled by photosynthesis or biomass?. <i>Global Change Biology</i> , 2020, 26, 1739-1753.	4.2	66
15	Climatic sensitivity of $\delta^{18}O$ in the wood and cellulose of tree rings: Results from a mixed stand of <i>Acer pseudoplatanus</i> L. and <i>Fagus sylvatica</i> L. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 261, 193-202.	1.0	62
16	Stand structure modulates the long-term vulnerability of <i>Pinus halepensis</i> to climatic drought in a semiarid Mediterranean ecosystem. <i>Plant, Cell and Environment</i> , 2012, 35, 1026-1039.	2.8	62
17	Site-aspect influence on climate sensitivity over time of a high-altitude <i>Pinus cembra</i> tree-ring network. <i>Climatic Change</i> , 2009, 96, 185-201.	1.7	61
18	Accelerating upward treeline shift in the Altai Mountains under last-century climate change. <i>Scientific Reports</i> , 2019, 9, 7678.	1.6	60

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19	Climatic Signals from Intra-annual Density Fluctuation Frequency in Mediterranean Pines at a Regional Scale. <i>Frontiers in Plant Science</i> , 2016, 7, 579.	1.7	58
20	Tree-ring growth and stable isotopes (^{13}C and ^{15}N) detect effects of wildfires on tree physiological processes in <i>Pinus sylvestris</i> L.. <i>Trees - Structure and Function</i> , 2011, 25, 627-636.	0.9	55
21	Tree-ring anatomy and carbon isotope ratio show both direct and legacy effects of climate on bimodal xylem formation in <i>Pinus pinea</i> . <i>Tree Physiology</i> , 2018, 38, 1098-1109.	1.4	55
22	Discrete versus continuous analysis of anatomical and $\delta^{13}\text{C}$ variability in tree rings with intra-annual density fluctuations. <i>Trees - Structure and Function</i> , 2012, 26, 513-524.	0.9	53
23	Long Tree-Ring Chronologies Provide Evidence of Recent Tree Growth Decrease in a Central African Tropical Forest. <i>PLoS ONE</i> , 2015, 10, e0120962.	1.1	53
24	Which matters most for the formation of intra-annual density fluctuations in <i>Pinus pinaster</i> : age or size?. <i>Trees - Structure and Function</i> , 2015, 29, 237-245.	0.9	52
25	Tree Vitality and Forest Health: Can Tree-Ring Stable Isotopes Be Used as Indicators?. <i>Current Forestry Reports</i> , 2021, 7, 69-80.	3.4	51
26	Effects of prescribed burning on ecophysiological, anatomical and stem hydraulic properties in <i>Pinus pinea</i> L.. <i>Tree Physiology</i> , 2016, 36, 1019-1031.	1.4	48
27	A smart multiple spatial and temporal resolution system to support precision agriculture from satellite images: Proof of concept on Aglianico vineyard. <i>Remote Sensing of Environment</i> , 2020, 240, 111679.	4.6	47
28	Tree-ring carbon and oxygen isotopes indicate different water use strategies in three Mediterranean shrubs at Capo Caccia (Sardinia, Italy). <i>Trees - Structure and Function</i> , 2015, 29, 1593-1603.	0.9	46
29	Traffic pollution affects tree-ring width and isotopic composition of <i>Pinus pinea</i> . <i>Science of the Total Environment</i> , 2010, 408, 586-593.	3.9	44
30	The effects of prescribed burning on <i>Pinus halepensis</i> Mill. as revealed by dendrochronological and isotopic analyses. <i>Forest Ecology and Management</i> , 2014, 334, 201-208.	1.4	44
31	Five centuries of Central European temperature extremes reconstructed from tree-ring density and documentary evidence. <i>Global and Planetary Change</i> , 2010, 72, 182-191.	1.6	43
32	Xylogenesis reveals the genesis and ecological signal of IADFs in <i>Pinus pinea</i> L. and <i>Arbutus unedo</i> L.. <i>Annals of Botany</i> , 2018, 121, 1231-1242.	1.4	39
33	Historical changes in the stomatal limitation of photosynthesis: empirical support for an optimality principle. <i>New Phytologist</i> , 2020, 225, 2484-2497.	3.5	39
34	Risky future for Mediterranean forests unless they undergo extreme carbon fertilization. <i>Global Change Biology</i> , 2017, 23, 2915-2927.	4.2	38
35	Comparing methods to analyse anatomical features of tree rings with and without intra-annual density fluctuations (IADFs). <i>Dendrochronologia</i> , 2014, 32, 1-6.	1.0	37
36	Volcanic explosive eruptions of the Vesuvio decrease tree-ring growth but not photosynthetic rates in the surrounding forests. <i>Global Change Biology</i> , 2007, 13, 1122-1137.	4.2	33

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37	Timing of False Ring Formation in <i>Pinus halepensis</i> and <i>Arbutus unedo</i> in Southern Italy: Outlook from an Analysis of Xylogenesis and Tree-Ring Chronologies. <i>Frontiers in Plant Science</i> , 2016, 7, 705.	1.7	32
38	Contrasting physiological responses to Mediterranean climate variability are revealed by intra-annual density fluctuations in tree rings of <i>Quercus ilex</i> L. and <i>Pinus pinea</i> L.. <i>Tree Physiology</i> , 2018, 38, 1213-1224.	1.4	31
39	Isotopic and anatomical signals for interpreting fire-related responses in <i>Pinus halepensis</i> . <i>Trees - Structure and Function</i> , 2014, 28, 1095-1104.	0.9	29
40	Pine afforestation decreases the long-term performance of understory shrubs in a semi-arid Mediterranean ecosystem: a stable isotope approach. <i>Functional Ecology</i> , 2015, 29, 15-25.	1.7	28
41	Retrospective analysis of wood anatomical traits and tree-ring isotopes suggests site-specific mechanisms triggering <i>Araucaria araucana</i> drought-induced dieback. <i>Global Change Biology</i> , 2021, 27, 6394-6408.	4.2	28
42	Climatic isotope signals in tree rings masked by air pollution: A case study conducted along the Mont Blanc Tunnel access road (Western Alps, Italy). <i>Atmospheric Environment</i> , 2012, 61, 169-179.	1.9	27
43	Growth dynamics, climate sensitivity and water use efficiency in pure vs. mixed pine and beech stands in Trentino (Italy). <i>Forest Ecology and Management</i> , 2018, 409, 707-718.	1.4	27
44	Disentangling the effects of crown scorch and competition release on the physiological and growth response of <i>Pinus halepensis</i> Mill. using $\delta^{13}C$ and $\delta^{18}O$ isotopes. <i>Forest Ecology and Management</i> , 2018, 424, 276-287.	1.4	26
45	Wood Growth in Pure and Mixed <i>Quercus ilex</i> L. Forests: Drought Influence Depends on Site Conditions. <i>Frontiers in Plant Science</i> , 2019, 10, 397.	1.7	26
46	Growth, wood anatomy and stable isotopes show species-specific couplings in three Mexican conifers inhabiting drought-prone areas. <i>Science of the Total Environment</i> , 2020, 698, 134055.	3.9	25
47	Fire influence on <i>Pinus halepensis</i> : wood responses close and far from the scars. <i>IAWA Journal</i> , 2013, 34, 446-458.	2.7	24
48	Carbon stock increases up to old growth forest along a secondary succession in Mediterranean island ecosystems. <i>PLoS ONE</i> , 2019, 14, e0220194.	1.1	24
49	Warming-related growth responses at the southern limit distribution of mountain pine (<i>Pinus</i>) Tj ETQq1 1 0.784314 rgBT/Overlo 1.1 23	1.1	23
50	Long-term effects of climate and land-use change on larch budmoth outbreaks in the French Alps. <i>Climate Research</i> , 2014, 62, 1-14.	0.4	23
51	<i>Larix decidua</i> $\delta^{18}O$ tree-ring cellulose mainly reflects the isotopic signature of winter snow in a high-altitude glacial valley of the European Alps. <i>Science of the Total Environment</i> , 2017, 579, 230-237.	3.9	21
52	Effects of associating <i>Quercus robur</i> L. and <i>Alnus cordata</i> Loisel. on plantation productivity and water use efficiency. <i>Forest Ecology and Management</i> , 2017, 391, 106-114.	1.4	21
53	Fire Severity Influences Ecophysiological Responses of <i>Pinus pinaster</i> Ait. <i>Frontiers in Plant Science</i> , 2019, 10, 539.	1.7	21
54	Xylem Adjustment in <i>Erica Arborea</i> to Temperature and Moisture Availability in Contrasting Climates. <i>IAWA Journal</i> , 2013, 34, 109-126.	2.7	20

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55	Are wood fibres as sensitive to environmental conditions as vessels in tree rings with intra-annual density fluctuations (IADFs) in Mediterranean species?. <i>Trees - Structure and Function</i> , 2016, 30, 971-983.	0.9	20
56	Wood-trait analysis to understand climatic factors triggering intra-annual density-fluctuations in co-occurring Mediterranean trees. <i>IAWA Journal</i> , 2019, 40, 241-258.	2.7	20
57	Tree-ring responses in <i>Araucaria araucana</i> to two major eruptions of Lonquimay Volcano (Chile). <i>Trees - Structure and Function</i> , 2012, 26, 1805-1819.	0.9	18
58	Fire-scars and polymodal age-structure provide evidence of fire-events in an Aleppo pine population in southern France. <i>Dendrochronologia</i> , 2013, 31, 159-164.	1.0	17
59	Site conditions influence the climate signal of intra-annual density fluctuations in tree rings of <i>Q. ilex</i> L.. <i>Annals of Forest Science</i> , 2018, 75, 1.	0.8	17
60	Effects of thinning intensity on productivity and water use efficiency of <i>Quercus robur</i> L. <i>Forest Ecology and Management</i> , 2020, 473, 118282.	1.4	15
61	Reconstruction of Past Co2 Concentration at a Natural Co2 Vent Site Using Radiocarbon Dating of Tree Rings. <i>Radiocarbon</i> , 2005, 47, 257-263.	0.8	14
62	Climate signals in a multispecies tree-ring network from central and southern Italy and reconstruction of the late summer temperatures since the early 1700s. <i>Climate of the Past</i> , 2017, 13, 1451-1471.	1.3	13
63	Dendrochronological analysis and growth patterns of <i>Polylepis reticulata</i> (Rosaceae) in the Ecuadorian Andes. <i>IAWA Journal</i> , 2019, 40, 331-S5.	2.7	12
64	Rootstock effect on tree-ring traits in grapevine under a climate change scenario. <i>IAWA Journal</i> , 2018, 39, 145-155.	2.7	11
65	Impact of Climate, Stand Growth Parameters, and Management on Isotopic Composition of Tree Rings in Chestnut Coppices. <i>Forests</i> , 2019, 10, 1148.	0.9	11
66	Xylem Plasticity in <i>Pinus pinaster</i> and <i>Quercus ilex</i> Growing at Sites with Different Water Availability in the Mediterranean Region: Relations between Intra-Annual Density Fluctuations and Environmental Conditions. <i>Forests</i> , 2020, 11, 379.	0.9	10
67	First detection of glacial meltwater signature in tree-ring $\delta^{18}O$: Reconstructing past major glacier runoff events at <i>Lago Verde</i> (<i>Mt. Glacier</i> , <i>Italy</i>). <i>Boreas</i> , 2014, 43, 600-607.	1.2	9
68	Tree-ring stable isotopes show different ecophysiological strategies in native and invasive woody species of a semiarid riparian ecosystem in the Great Plains of the United States. <i>Ecohydrology</i> , 2019, 12, e2074.	1.1	9
69	Crossing taxonomic and isotopic approaches in charcoal analyses to reveal past climates. New perspectives in Paleobotany from the Paleolithic Neanderthal dwelling-site of La Combette (Vaucluse, France). <i>Journal of Archaeological Science</i> , 2021, 128, 105547.	0.78	4314
70	The effect of prescribed burning on the drought resilience of <i>Pinus nigra</i> ssp. <i>salzmannii</i> Dunal (France) and <i>P. sylvestris</i> L.. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	8
71	Jet stream position explains regional anomalies in European beech forest productivity and tree growth. <i>Nature Communications</i> , 2022, 13, 2015.	5.8	8
72	Post-photosynthetic Carbon, Oxygen and Hydrogen Isotope Signal Transfer to Tree Rings: How Timing of Cell Formations and Turnover of Stored Carbohydrates Affect Intra-annual Isotope Variations. <i>Tree Physiology</i> , 2022, , 429-462.	0.9	7

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73	Mixed-Species Plantation Effects on Soil Biological and Chemical Quality and Tree Growth of a Former Agricultural Land. <i>Forests</i> , 2021, 12, 842.	0.9	6
74	Climate Signals in Stable Isotope Tree-Ring Records. <i>Tree Physiology</i> , 2022, , 537-579.	0.9	6
75	Tree Rings of <i>Pinus ponderosa</i> and <i>Juniperus virginiana</i> Show Different Responses to Stand Density and Water Availability in the Nebraska Grasslands. <i>American Midland Naturalist</i> , 2018, 180, 18.	0.2	5
76	Increasing atmospheric CO ₂ concentrations outweighs effects of stand density in determining growth and water use efficiency in <i>Pinus ponderosa</i> of the semi-arid grasslands of Nebraska (U.S.A.). <i>Global Ecology and Conservation</i> , 2020, 24, e01274.	1.0	5
77	Evaluating growth and intrinsic water-use efficiency in hardwood and conifer mixed plantations. <i>Trees - Structure and Function</i> , 2021, 35, 1329-1340.	0.9	5
78	New climatic approaches to the analysis of the middle Paleolithic sequences: Combined taxonomic and isotopic charcoal analyses on a Neanderthal settlement, Les Canalettes (Aveyron, France). <i>Quaternary International</i> , 2021, 593-594, 85-94.	0.7	5
79	Tree Species Composition in Mixed Plantations Influences Plant Growth, Intrinsic Water Use Efficiency and Soil Carbon Stock. <i>Forests</i> , 2021, 12, 1251.	0.9	5
80	Tree-ring $\delta^{18}O$ from an Alpine catchment reveals changes in glacier stream water inputs between 1980 and 2010. <i>Arctic, Antarctic, and Alpine Research</i> , 2019, 51, 250-264.	0.4	4
81	Influence of tree species richness on tree growth and intrinsic water-use efficiency after drought in tree plantations in north-eastern Italy. <i>European Journal of Forest Research</i> , 2020, 139, 869-877.	1.1	4
82	Comparing Methods for the Analysis of $\delta^{13}C$ in Falanghina Grape Must from Different Pedoclimatic Conditions. <i>Horticulturae</i> , 2022, 8, 226.	1.2	3
83	Stable Isotopes in Tree Rings of Mediterranean Forests. <i>Tree Physiology</i> , 2022, , 605-629.	0.9	3
84	Assessing Soil Respiration by Means of Near-Infrared Diode Laser Spectroscopy. <i>Applied Spectroscopy</i> , 2004, 58, 1051-1056.	1.2	2
85	Biomass Growth Rate of Trees from Cameroon Based on $\delta^{14}C$ Analysis and Growth Models. <i>Radiocarbon</i> , 2013, 55, 885-893.	0.8	2
86	Editorial: Multiscale Approach to Assess Forest Vulnerability. <i>Frontiers in Plant Science</i> , 2020, 11, 744.	1.7	2
87	$\delta^{13}C$ referential in three <i>Pinus</i> species for a first archaeological application to Paleolithic contexts: "Between intra- and inter-individual variation and carbonization effect". <i>Journal of Archaeological Science: Reports</i> , 2018, 20, 775-783.	0.2	0
88	A Smart Multi-scale and Multi-temporal System to Support Precision and Sustainable Agriculture from Satellite Images. <i>Proceedings (mdpi)</i> , 2019, 30, 17.	0.2	0