

Marco Carrer

List of Publications by Citations

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Version: 2024-04-28

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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.

86
papers

4,685
citations

38
h-index

67
g-index

89
ext. papers

5,486
ext. citations

5.9
avg, IF

5.8
L-index

#	Paper	IF	Citations
86	Old World megadroughts and pluvials during the Common Era. <i>Science Advances</i> , 2015 , 1, e1500561	14.3	304
85	AGE-DEPENDENT TREE-RING GROWTH RESPONSES TO CLIMATE IN LARIX DECIDUA AND PINUS CEMBRA. <i>Ecology</i> , 2004 , 85, 730-740	4.6	275
84	Site- and species-specific responses of forest growth to climate across the European continent. <i>Global Ecology and Biogeography</i> , 2013 , 22, 706-717	6.1	248
83	Convergent tapering of xylem conduits in different woody species. <i>New Phytologist</i> , 2006 , 169, 279-90	9.8	204
82	Daily weather response of balsam fir (<i>Abies balsamea</i> (L.) Mill.) stem radius increment from dendrometer analysis in the boreal forests of Québec (Canada). <i>Trees - Structure and Function</i> , 2003 , 17, 477-484	2.6	189
81	Age-dependent xylogenesis in timberline conifers. <i>New Phytologist</i> , 2008 , 177, 199-208	9.8	180
80	Long-term change in the sensitivity of tree-ring growth to climate forcing in <i>Larix decidua</i> . <i>New Phytologist</i> , 2006 , 170, 861-71	9.8	174
79	ROXAS: A new tool to build centuries-long tracheid-lumen chronologies in conifers. <i>Dendrochronologia</i> , 2014 , 32, 290-293	2.8	148
78	Testing for tree-ring divergence in the European Alps. <i>Global Change Biology</i> , 2008 , 14, 2443-2453	11.4	120
77	Mediterranean drought fluctuation during the last 500 years based on tree-ring data. <i>Climate Dynamics</i> , 2008 , 31, 227-245	4.2	117
76	Distilling allometric and environmental information from time series of conduit size: the standardization issue and its relationship to tree hydraulic architecture. <i>Tree Physiology</i> , 2015 , 35, 27-33	4.2	109
75	Towards a functional and simplified allometry for estimating forest biomass. <i>Forest Ecology and Management</i> , 2006 , 237, 583-593	3.9	109
74	Distinct effects of climate warming on populations of silver fir (<i>Abies alba</i>) across Europe. <i>Journal of Biogeography</i> , 2015 , 42, 1150-1162	4.1	103
73	Cell size and wall dimensions drive distinct variability of earlywood and latewood density in Northern Hemisphere conifers. <i>New Phytologist</i> , 2017 , 216, 728-740	9.8	96
72	Quantitative Wood Anatomy-Practical Guidelines. <i>Frontiers in Plant Science</i> , 2016 , 7, 781	6.2	94
71	Individualistic and time-varying tree-ring growth to climate sensitivity. <i>PLoS ONE</i> , 2011 , 6, e22813	3.7	88
70	Wood anatomy and carbon-isotope discrimination support long-term hydraulic deterioration as a major cause of drought-induced dieback. <i>Global Change Biology</i> , 2016 , 22, 2125-37	11.4	86

69	Regional variability of climate-growth relationships in <i>Pinus cembra</i> high elevation forests in the Alps. <i>Journal of Ecology</i> , 2007 , 95, 1072-1083	6	85
68	Tree water relations and climatic variations at the alpine timberline: seasonal changes of sap flux and xylem water potential in <i>Larix decidua</i> Miller, <i>Picea abies</i> (L.) Karst. and <i>Pinus cembra</i> L. <i>Annales Des Sciences Forestières</i> , 1998 , 55, 159-172		82
67	Contrasting tree-ring growth to climate responses of <i>Abies alba</i> toward the southern limit of its distribution area. <i>Oikos</i> , 2010 , 119, 1515-1525	4	76
66	Three centuries of insect outbreaks across the European Alps. <i>New Phytologist</i> , 2009 , 182, 929-941	9.8	76
65	Placing unprecedented recent fir growth in a European-wide and Holocene-long context. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 100-106	5.5	71
64	Hydraulic constraints limit height growth in trees at high altitude. <i>New Phytologist</i> , 2011 , 189, 241-52	9.8	70
63	How does climate influence xylem morphogenesis over the growing season? Insights from long-term intra-ring anatomy in <i>Picea abies</i> . <i>Annals of Botany</i> , 2017 , 119, 1011-1020	4.1	67
62	Ranking of tree-ring based temperature reconstructions of the past millennium. <i>Quaternary Science Reviews</i> , 2016 , 145, 134-151	3.9	66
61	Climate extremes and predicted warming threaten Mediterranean Holocene firs forests refugia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10142-E10150	11.5	64
60	Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. <i>Nature Communications</i> , 2018 , 9, 3605	17.4	64
59	Linking wood anatomy and xylogenesis allows pinpointing of climate and drought influences on growth of coexisting conifers in continental Mediterranean climate. <i>Tree Physiology</i> , 2016 , 36, 502-12	4.2	58
58	Structure and Function of Intra-Annual Density Fluctuations: Mind the Gaps. <i>Frontiers in Plant Science</i> , 2016 , 7, 595	6.2	55
57	Site- and species-specific treeline responses to climatic variability in eastern Nepal Himalaya. <i>Dendrochronologia</i> , 2017 , 41, 44-56	2.8	51
56	500 years of regional forest growth variability and links to climatic extreme events in Europe. <i>Environmental Research Letters</i> , 2012 , 7, 045705	6.2	48
55	Contrasting effects of environmental change on the radial growth of co-occurring beech and fir trees across Europe. <i>Science of the Total Environment</i> , 2018 , 615, 1460-1469	10.2	46
54	From xylogenesis to tree rings: wood traits to investigate tree response to environmental changes. <i>IAWA Journal</i> , 2019 , 40, 155-182	2.3	45
53	Bridging long-term wood functioning and nitrogen deposition to better understand changes in tree growth and forest productivity. <i>Tree Physiology</i> , 2017 , 37, 1-3	4.2	44
52	Spatial analysis of structural and tree-ring related parameters in a timberline forest in the Italian Alps. <i>Journal of Vegetation Science</i> , 2001 , 12, 643-652	3.1	44

51	Tree-ring based spring precipitation reconstruction in western Nepal Himalaya since AD 1840. <i>Dendrochronologia</i> , 2017 , 42, 21-30	2.8	43
50	Divergent climate response on hydraulic-related xylem anatomical traits of <i>Picea abies</i> along a 900-m altitudinal gradient. <i>Tree Physiology</i> , 2015 , 35, 1378-87	4.2	43
49	The Blue ring anatomy and formation hypothesis of a new tree-ring anomaly in conifers. <i>Trees - Structure and Function</i> , 2015 , 29, 613-620	2.6	39
48	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	4.2	38
47	Summer climate variability over the last 250 years differently affected tree species radial growth in a mesic <i>Fagus</i> / <i>Abies</i> / <i>Picea</i> old-growth forest. <i>Forest Ecology and Management</i> , 2014 , 320, 21-29	3.9	38
46	Retrospective Analysis of Wood Anatomical Traits Reveals a Recent Extension in Tree Cambial Activity in Two High-Elevation Conifers. <i>Frontiers in Plant Science</i> , 2017 , 8, 737	6.2	38
45	New research perspectives from a novel approach to quantify tracheid wall thickness. <i>Tree Physiology</i> , 2017 , 37, 976-983	4.2	36
44	Xylem anatomical traits reveal different strategies of two Mediterranean oaks to cope with drought and warming. <i>Environmental and Experimental Botany</i> , 2017 , 133, 128-138	5.9	33
43	Energy, Forest, and Indoor Air Pollution Models for Sagarmatha National Park and Buffer Zone, Nepal. <i>Mountain Research and Development</i> , 2010 , 30, 113-126	1.4	31
42	Disentangling the climate-driven bimodal growth pattern in coastal and continental Mediterranean pine stands. <i>Science of the Total Environment</i> , 2018 , 615, 1518-1526	10.2	30
41	An allometry-based approach for understanding forest structure, predicting tree-size distribution and assessing the degree of disturbance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20122375	4.4	30
40	Significant mean and extreme climate sensitivity of Norway spruce and silver fir at mid-elevation mesic sites in the Alps. <i>PLoS ONE</i> , 2012 , 7, e50755	3.7	28
39	The Imprint of Extreme Climate Events in Century-Long Time Series of Wood Anatomical Traits in High-Elevation Conifers. <i>Frontiers in Plant Science</i> , 2016 , 7, 683	6.2	28
38	Climate signal age effects in boreal tree-rings: Lessons to be learned for paleoclimatic reconstructions. <i>Quaternary Science Reviews</i> , 2016 , 142, 164-172	3.9	28
37	Tree spatial patterns and stand attributes in temperate forests: The importance of plot size, sampling design, and null model. <i>Forest Ecology and Management</i> , 2018 , 407, 125-134	3.9	28
36	Diverging shrub and tree growth from the Polar to the Mediterranean biomes across the European continent. <i>Global Change Biology</i> , 2017 , 23, 3169-3180	11.4	26
35	A Combined Tree Ring and Vegetation Model Assessment of European Forest Growth Sensitivity to Interannual Climate Variability. <i>Global Biogeochemical Cycles</i> , 2018 , 32, 1226	5.9	25
34	Convergent space-time tree regeneration patterns along an elevation gradient at high altitude in the Alps. <i>Forest Ecology and Management</i> , 2013 , 304, 1-9	3.9	25

33	Self-similarity and scaling in forest communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7658-62	11.5	23
32	Spatial structure in four Norway spruce stands with different management history in the Alps and Carpathians. <i>Silva Fennica</i> , 2011 , 45,	1.9	23
31	Winter precipitation effect in a mid-latitude temperature-limited environment: the case of common juniper at high elevation in the Alps. <i>Environmental Research Letters</i> , 2014 , 9, 104021	6.2	21
30	Winter precipitation - not summer temperature - is still the main driver for Alpine shrub growth. <i>Science of the Total Environment</i> , 2019 , 682, 171-179	10.2	20
29	High-altitude forest sensitivity to global warming: results from long-term and short-term analyses in the eastern Italian Alps 1998 , 171-189		19
28	Wood anatomical traits in black spruce reveal latent water constraints on the boreal forest. <i>Global Change Biology</i> , 2020 , 26, 1767-1777	11.4	18
27	Global fading of the temperature-growth coupling at alpine and polar treelines. <i>Global Change Biology</i> , 2021 , 27, 1879-1889	11.4	17
26	Human interactions with forest landscape in the Khumbu valley, Nepal. <i>Anthropocene</i> , 2014 , 6, 39-47	3.9	16
25	Wood anatomical traits highlight complex temperature influence on <i>Pinus cembra</i> at high elevation in the Eastern Alps. <i>International Journal of Biometeorology</i> , 2018 , 62, 1745-1753	3.7	15
24	Xylem anatomical responses to climate variability in Himalayan birch trees at one of the world's highest forest limit. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018 , 33, 34-41	3	14
23	Moisture-driven shift in the climate sensitivity of white spruce xylem anatomical traits is coupled to large-scale oscillation patterns across northern treeline in northwest North America. <i>Global Change Biology</i> , 2020 , 26, 1842-1856	11.4	14
22	Commentary to Wetter et al. (2014): Limited tree-ring evidence for a 1540 European Megadrought. <i>Climatic Change</i> , 2015 , 131, 183-190	4.5	13
21	Axial vessel widening in arborescent monocots. <i>Tree Physiology</i> , 2014 , 34, 137-45	4.2	13
20	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	10.2	13
19	Immediate and carry-over effects of insect outbreaks on vegetation growth in West Greenland assessed from cells to satellite. <i>Journal of Biogeography</i> , 2020 , 47, 87-100	4.1	12
18	Shifts of irrigation in Aleppo pine under semi-arid conditions reveal uncoupled growth and carbon storage and legacy effects on wood anatomy. <i>Agricultural and Forest Meteorology</i> , 2018 , 253-254, 225-232	5.8	11
17	Tree rings and stable isotopes reveal the tree-history prior to insect defoliation on Norway spruce (<i>Picea abies</i> (L.) Karst.). <i>Forest Ecology and Management</i> , 2014 , 319, 99-106	3.9	11
16	Influences of tree age and tree structure on the macrolichen <i>Letharia vulpina</i> : A case study in the Italian Alps. <i>Ecoscience</i> , 2008 , 15, 423-428	1.1	11

15	Precipitation variability differently affects radial growth, xylem traits and ring porosity of three Mediterranean oak species at xeric and mesic sites. <i>Science of the Total Environment</i> , 2020 , 699, 134285	10.2	9
14	Long-Term Impacts of Defoliator Outbreaks on Larch Xylem Structure and Tree-Ring Biomass. <i>Frontiers in Plant Science</i> , 2020 , 11, 1078	6.2	7
13	Scots pine trees react to drought by increasing xylem and phloem conductivities. <i>Tree Physiology</i> , 2020 , 40, 774-781	4.2	6
12	Effects of climate change on treeline trees in Sagarmatha (Mt. Everest, Central Himalaya). <i>Journal of Vegetation Science</i> , 2020 , 31, 1144-1153	3.1	6
11	Dispersal patterns of meiospores shape population spatial structure of saxicolous lichens. <i>Lichenologist</i> , 2017 , 49, 397-413	1.1	4
10	<i>Juniperus communis</i> populations exhibit low variability in hydraulic safety and efficiency. <i>Tree Physiology</i> , 2020 , 40, 1668-1679	4.2	4
9	Fine-scale population dynamics help to elucidate community assembly patterns of epiphytic lichens in alpine forests. <i>Fungal Ecology</i> , 2016 , 24, 21-26	4.1	4
8	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	11.4	4
7	Growing faster, longer or both? Modelling plastic response of <i>Juniperus communis</i> growth phenology to climate change. <i>Global Ecology and Biogeography</i> , 2021 , 30, 2229	6.1	3
6	Contrasting Impacts of Climate Warming on Coastal Old-Growth Tree Species Reveal an Early Warning of Forest Decline. <i>Frontiers in Forests and Global Change</i> , 2022 , 4,	3.7	2
5	Chemical signature of <i>Eurois occulta</i> L. outbreaks in the xylem cell wall of <i>Salix glauca</i> L. in Greenland. <i>Science of the Total Environment</i> , 2021 , 764, 144607	10.2	1
4	Q-NET is a new scholarly network on quantitative wood anatomy. <i>Dendrochronologia</i> , 2021 , 70, 125890	2.8	1
3	Influences of summer warming and nutrient availability on <i>Salix glauca</i> L. growth in Greenland along an ice to sea gradient.. <i>Scientific Reports</i> , 2022 , 12, 3077	4.9	1
2	Transient Effects of Snow Cover Duration on Primary Growth and Leaf Traits in a Tundra Shrub.. <i>Frontiers in Plant Science</i> , 2022 , 13, 822901	6.2	1
1	Xylem traits of peatland Scots pines reveal a complex climatic signal: A study in the Eastern Italian Alps. <i>Dendrochronologia</i> , 2021 , 67, 125824	2.8	