

Tommaso Anfodillo

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8498200/tommaso-anfodillo-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

62

papers

3,963

citations

29

h-index

62

g-index

64

ext. papers

4,637

ext. citations

5.6

avg, IF

5.43

L-index

#	Paper	IF	Citations
62	Short Communication. Basic wood density and moisture content of 14 shrub species under two different site conditions in the Chilean Mediterranean shrubland. <i>Forest Systems</i> , 2022 , 31, eSC01-eSC01 ^{0.9}		
61	The Widened Pipe Model of plant hydraulic evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
60	Radial stem growth dynamics and phenology of a multi-stemmed species (<i>Corylus avellana</i> L.) across orchards in the Northern and Southern hemispheres. <i>Tree Physiology</i> , 2021 , 41, 2022-2033	4.2	0
59	Tip-to-base xylem conduit widening as an adaptation: causes, consequences, and empirical priorities. <i>New Phytologist</i> , 2021 , 229, 1877-1893	9.8	25
58	Assessment of Canopy Conductance Responses to Vapor Pressure Deficit in Eight Hazelnut Orchards Across Continents.. <i>Frontiers in Plant Science</i> , 2021 , 12, 767916	6.2	1
57	Stable Allometric Trajectories in <i>Picea abies</i> (L.) Karst. Trees along an Elevational Gradient. <i>Forests</i> , 2020 , 11, 1231	2.8	0
56	The total path length hydraulic resistance according to known anatomical patterns: What is the shape of the root-to-leaf tension gradient along the plant longitudinal axis?. <i>Journal of Theoretical Biology</i> , 2020 , 502, 110369	2.3	6
55	Hydraulic traits vary as the result of tip-to-base conduit widening in vascular plants. <i>Journal of Experimental Botany</i> , 2020 , 71, 4232-4242	7	12
54	Determinants of legacy effects in pine trees - implications from an irrigation-stop experiment. <i>New Phytologist</i> , 2020 , 227, 1081-1096	9.8	28
53	Across climates and species, higher vapour pressure deficit is associated with wider vessels for plants of the same height. <i>Plant, Cell and Environment</i> , 2020 , 43, 3068-3080	8.4	4
52	Calibration of Granier-Type (TDP) Sap Flow Probes by a High Precision Electronic Potometer. <i>Sensors</i> , 2019 , 19,	3.8	14
51	Girdling of fruit-bearing branches of <i>Corylus avellana</i> reduces seed mass while defoliation does not. <i>Scientia Horticulturae</i> , 2019 , 255, 37-43	4.1	3
50	Axial variation of xylem conduits in the Earth's tallest trees. <i>Trees - Structure and Function</i> , 2019 , 33, 1299-1311	11	14
49	Axial anatomy of the leaf midrib provides new insights into the hydraulic architecture and cavitation patterns of <i>Acer pseudoplatanus</i> leaves. <i>Journal of Experimental Botany</i> , 2019 , 70, 6195-6201	7	17
48	Tree size mostly drives the variation of xylem traits at the treeline ecotone. <i>Trees - Structure and Function</i> , 2019 , 33, 1657-1665	2.6	7
47	Constant theoretical conductance via changes in vessel diameter and number with height growth in <i>Moringa oleifera</i> . <i>Journal of Experimental Botany</i> , 2019 , 70, 5765-5772	7	11
46	A standardization method to disentangle environmental information from axial trends of xylem anatomical traits. <i>Tree Physiology</i> , 2019 , 39, 495-502	4.2	16

45	Tree differences in primary and secondary growth drive convergent scaling in leaf area to sapwood area across Europe. <i>New Phytologist</i> , 2018 , 218, 1383-1392	9.8	10
44	Robustness of xylem properties in conifers: analyses of tracheid and pit dimensions along elevational transects. <i>Tree Physiology</i> , 2018 , 38, 212-222	4.2	10
43	Plant height and hydraulic vulnerability to drought and cold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7551-7556	11.5	139
42	Testing a general approach to assess the degree of disturbance in tropical forests. <i>Journal of Vegetation Science</i> , 2017 , 28, 659-668	3.1	7
41	Scaling of Xylem Vessel Diameter with Plant Size: Causes, Predictions, and Outstanding Questions. <i>Current Forestry Reports</i> , 2017 , 3, 46-59	8	59
40	Exploring the bark thickness-stem diameter relationship: clues from lianas, successive cambia, monocots and gymnosperms. <i>New Phytologist</i> , 2017 , 215, 569-581	9.8	20
39	Pattern of xylem phenology in conifers of cold ecosystems at the Northern Hemisphere. <i>Global Change Biology</i> , 2016 , 22, 3804-3813	11.4	108
38	TRACHEID AND PIT ANATOMY VARY IN TANDEM IN A TALL SEQUOIADENDRON GIGANTEUM TREE. <i>IAWA Journal</i> , 2016 , 37, 172-185	2.3	31
37	Allometric Trajectories and "Stress": A Quantitative Approach. <i>Frontiers in Plant Science</i> , 2016 , 7, 1681	6.2	19
36	Transport efficiency through uniformity: organization of veins and stomata in angiosperm leaves. <i>New Phytologist</i> , 2016 , 209, 216-27	9.8	46
35	Interplay of growth rate and xylem plasticity for optimal coordination of carbon and hydraulic economies in <i>Fraxinus ornus</i> trees. <i>Tree Physiology</i> , 2016 , 36, 1310-1319	4.2	28
34	Life cycle environmental impact of firewood production [A case study in Italy]. <i>Applied Energy</i> , 2015 , 150, 185-195	10.7	43
33	Universal hydraulics of the flowering plants: vessel diameter scales with stem length across angiosperm lineages, habits and climates. <i>Ecology Letters</i> , 2014 , 17, 988-97	10	163
32	Evaluation of environmental impacts of harvest residue-based bioenergy using radiative forcing analysis. <i>Forestry Chronicle</i> , 2014 , 90, 577-585	1	7
31	Axial vessel widening in arborescent monocots. <i>Tree Physiology</i> , 2014 , 34, 137-45	4.2	13
30	A meta-analysis of cambium phenology and growth: linear and non-linear patterns in conifers of the northern hemisphere. <i>Annals of Botany</i> , 2013 , 112, 1911-20	4.1	92
29	Tracing the Water Sources of Trees and Streams: Isotopic Analysis in a Small Pre-Alpine Catchment. <i>Procedia Environmental Sciences</i> , 2013 , 19, 106-112		27
28	Hormonal signals involved in the regulation of cambial activity, xylogenesis and vessel patterning in trees. <i>Plant Cell Reports</i> , 2013 , 32, 885-98	5.1	69

27	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
26	Axial conduit widening in woody species: a still neglected anatomical pattern. <i>IAWA Journal</i> , 2013 , 34, 352-364	2.3	92
25	Widening of xylem conduits in a conifer tree depends on the longer time of cell expansion downwards along the stem. <i>Journal of Experimental Botany</i> , 2012 , 63, 837-45	7	93
24	Testing the equi-resistance principle of the xylem transport system in a small ash tree: empirical support from anatomical analyses. <i>Tree Physiology</i> , 2012 , 32, 171-7	4.2	32
23	Hydraulic constraints limit height growth in trees at high altitude. <i>New Phytologist</i> , 2011 , 189, 241-52	9.8	70
22	Comment on "The blind men and the elephant: the impact of context and scale in evaluating conflicts between plant hydraulic safety and efficiency" by Meinzer et al. (2010). <i>Oecologia</i> , 2011 , 165, 271-4; discussion 275	2.9	9
21	The challenge of tree height in <i>Eucalyptus regnans</i> : when xylem tapering overcomes hydraulic resistance. <i>New Phytologist</i> , 2010 , 187, 1146-1153	9.8	67
20	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
19	Plant physiology in theory and practice: an analysis of the WBE model for vascular plants. <i>Journal of Theoretical Biology</i> , 2009 , 259, 1-4	2.3	69
18	Degree of tapering of xylem conduits in stems and roots of small <i>Pinus cembra</i> and <i>Larix decidua</i> trees. <i>Botany</i> , 2009 , 87, 501-508	1.3	29
17	Land Use Change and Forest Carbon Sink Assessment in an Alpine Mountain Area of the Veneto Region (Northeast Italy). <i>Mountain Research and Development</i> , 2009 , 29, 161-168	1.4	9
16	Age-dependent xylogenesis in timberline conifers. <i>New Phytologist</i> , 2008 , 177, 199-208	9.8	180
15	Tapering of xylem conduits and hydraulic limitations in sycamore (<i>Acer pseudoplatanus</i>) trees. <i>New Phytologist</i> , 2008 , 177, 653-664	9.8	65
14	Critical temperatures for xylogenesis in conifers of cold climates. <i>Global Ecology and Biogeography</i> , 2008 , 17, 696-707	6.1	387
13	Evidence of threshold temperatures for xylogenesis in conifers at high altitudes. <i>Oecologia</i> , 2007 , 152, 1-12	2.9	331
12	Dendrometer and intra-annual tree growth: What kind of information can be inferred?. <i>Dendrochronologia</i> , 2007 , 25, 113-124	2.8	148
11	Trephor: A New Tool for Sampling Microcores from tree stems. <i>IAWA Journal</i> , 2006 , 27, 89-97	2.3	282
10	Assessment of Cambial Activity and Xylogenesis by Microsampling Tree Species: An Example at the Alpine Timberline. <i>IAWA Journal</i> , 2006 , 27, 383-394	2.3	165

9	Towards a functional and simplified allometry for estimating forest biomass. <i>Forest Ecology and Management</i> , 2006 , 237, 583-593	3.9	109
8	Convergent tapering of xylem conduits in different woody species. <i>New Phytologist</i> , 2006 , 169, 279-90	9.8	204
7	Conifers in cold environments synchronize maximum growth rate of tree-ring formation with day length. <i>New Phytologist</i> , 2006 , 170, 301-10	9.8	290
6	Biomass distribution of two subalpine dwarf-shrubs in relation to soil moisture and nutrient content. <i>Journal of Vegetation Science</i> , 2004 , 15, 457-464	3.1	17
5	Minimum cuticular conductance and cuticle features of <i>Picea abies</i> and <i>Pinus cembra</i> needles along an altitudinal gradient in the Dolomites (NE Italian Alps). <i>Tree Physiology</i> , 2002 , 22, 479-87	4.2	51
4	Evidence of osmoregulation in <i>Larix decidua</i> at Alpine treeline and comparative responses to water availability of two co-occurring evergreen species. <i>Annals of Forest Science</i> , 2000 , 57, 623-633	3.1	29
3	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
2	Water sources and carbon isotope composition ($\delta^{13}C$) of selected tree species of the Italian Alps. <i>Canadian Journal of Forest Research</i> , 1994 , 24, 1575-1578	1.9	24
1	Applications of a thermal imaging technique in the study of the ascent of sap in woody species. <i>Plant, Cell and Environment</i> , 1993 , 16, 997-1001	8.4	21