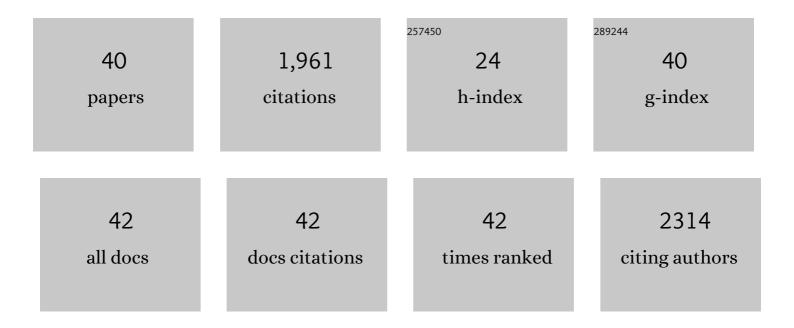
Giai Petit

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5528596/publications.pdf Version: 2024-02-01



CIAL DETIT

#	Article	IF	CITATIONS
1	No xylem phenotypic plasticity in mature <i>Picea abies</i> and <i>Fagus sylvatica</i> trees after 5 years of throughfall precipitation exclusion. Global Change Biology, 2022, 28, 4668-4683.	9.5	6
2	Susceptibility to <i>Xylella fastidiosa</i> and functional xylem anatomy in <i>Olea europaea</i> : revisiting a tale of plant–pathogen interaction. AoB PLANTS, 2021, 13, plab027.	2.3	14
3	Plant respiration: Controlled by photosynthesis or biomass?. Global Change Biology, 2020, 26, 1739-1753.	9.5	66
4	New developments in understanding plant water transport under drought stress. New Phytologist, 2020, 227, 1025-1027.	7.3	6
5	Effects of climate change on treeline trees in Sagarmatha (Mt. Everest, Central Himalaya). Journal of Vegetation Science, 2020, 31, 1144-1153.	2.2	10
6	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?. Journal of Theoretical Biology, 2020, 502, 110369.	1.7	21
7	Scots pine trees react to drought by increasing xylem and phloem conductivities. Tree Physiology, 2020, 40, 774-781.	3.1	18
8	Vulnerability to xylem embolism correlates to wood parenchyma fraction in angiosperms but not in gymnosperms. Tree Physiology, 2019, 39, 1675-1684.	3.1	38
9	Does elevated air humidity modify hydraulically relevant anatomical traits of wood in Betula pendula?. Trees - Structure and Function, 2019, 33, 1361-1371.	1.9	5
10	Hydraulic recovery from xylem embolism in excised branches of twelve woody species: Relationships with parenchyma cells and non-structural carbohydrates. Plant Physiology and Biochemistry, 2019, 139, 513-520.	5.8	48
11	Similarities and differences in the balances between leaf, xylem and phloem structures in <i>Fraxinus ornus</i> along an environmental gradient. Tree Physiology, 2019, 39, 234-242.	3.1	19
12	A standardization method to disentangle environmental information from axial trends of xylem anatomical traits. Tree Physiology, 2019, 39, 495-502.	3.1	30
13	The potential of Mid-Infrared spectroscopy for prediction of wood density and vulnerability to embolism in woody angiosperms. Tree Physiology, 2019, 39, 503-510.	3.1	19
14	Within-ring variability of wood structure and its relationship to drought sensitivity in Norway spruce trunks. IAWA Journal, 2019, 40, 288-310.	2.7	7
15	Tree differences in primary and secondary growth drive convergent scaling in leaf area to sapwood area across Europe. New Phytologist, 2018, 218, 1383-1392.	7.3	18
16	Axial xylem architecture of Larix decidua exposed to CO 2 enrichment and soil warming at the tree line. Functional Ecology, 2018, 32, 273-287.	3.6	27
17	Structural and anatomical responses of Pinus sylvestris and Tilia platyphyllos seedlings exposed to water shortage. Trees - Structure and Function, 2018, 32, 1211-1218.	1.9	20
18	Xylem anatomical responses to climate variability in Himalayan birch trees at one of the world's highest forest limit. Perspectives in Plant Ecology, Evolution and Systematics, 2018, 33, 34-41.	2.7	20

GIAI PETIT

#	Article	IF	CITATIONS
19	Xylem anatomical adjustments prioritize hydraulic efficiency over safety as Norway spruce trees grow taller. Tree Physiology, 2018, 38, 1088-1097.	3.1	49
20	New research perspectives from a novel approach to quantify tracheid wall thickness. Tree Physiology, 2017, 37, 976-983.	3.1	56
21	Xâ€ray microtomography observations of xylem embolism in stems of <i>Laurus nobilis</i> are consistent with hydraulic measurements of percentage loss of conductance. New Phytologist, 2017, 213, 1068-1075.	7.3	60
22	Retrospective Analysis of Wood Anatomical Traits Reveals a Recent Extension in Tree Cambial Activity in Two High-Elevation Conifers. Frontiers in Plant Science, 2017, 8, 737.	3.6	54
23	Osmolality and Non-Structural Carbohydrate Composition in the Secondary Phloem of Trees across a Latitudinal Gradient in Europe. Frontiers in Plant Science, 2016, 7, 726.	3.6	60
24	Allometric Trajectories and "Stress― A Quantitative Approach. Frontiers in Plant Science, 2016, 7, 1681.	3.6	24
25	Interplay of growth rate and xylem plasticity for optimal coordination of carbon and hydraulic economies in <i>Fraxinus ornus</i> trees. Tree Physiology, 2016, 36, 1310-1319.	3.1	33
26	Distilling allometric and environmental information from time series of conduit size: the standardization issue and its relationship to tree hydraulic architecture. Tree Physiology, 2015, 35, 27-33.	3.1	137
27	Divergent climate response on hydraulic-related xylem anatomical traits of <i>Picea abies</i> along a 900-m altitudinal gradient. Tree Physiology, 2015, 35, 1378-1387.	3.1	58
28	Axial vessel widening in arborescent monocots. Tree Physiology, 2014, 34, 137-145.	3.1	13
29	Universal hydraulics of the flowering plants: vessel diameter scales with stem length across angiosperm lineages, habits and climates. Ecology Letters, 2014, 17, 988-997.	6.4	220
30	Comparative axial widening of phloem and xylem conduits in small woody plants. Trees - Structure and Function, 2014, 28, 915-921.	1.9	55
31	Axial conduit widening in woody species: a still neglected anatomical pattern. IAWA Journal, 2013, 34, 352-364.	2.7	131
32	Widening of xylem conduits in a conifer tree depends on the longer time of cell expansion downwards along the stem. Journal of Experimental Botany, 2012, 63, 837-845.	4.8	107
33	Testing the equi-resistance principle of the xylem transport system in a small ash tree: empirical support from anatomical analyses. Tree Physiology, 2012, 32, 171-177.	3.1	36
34	Hydraulic constraints limit height growth in trees at high altitude. New Phytologist, 2011, 189, 241-252.	7.3	89
35	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). Oecologia, 2011, 165, 271-274.	2.0	11
36	The challenge of tree height in <i>Eucalyptus regnans</i> : when xylem tapering overcomes hydraulic resistance. New Phytologist, 2010, 187, 1146-1153.	7.3	79

GIAI PETIT

#	Article	IF	CITATIONS
37	Plant physiology in theory and practice: An analysis of the WBE model for vascular plants. Journal of Theoretical Biology, 2009, 259, 1-4.	1.7	85
38	Degree of tapering of xylem conduits in stems and roots of small <i>Pinus cembra</i> and <i>Larix decidua</i> trees. Botany, 2009, 87, 501-508.	1.0	34
39	Tapering of xylem conduits and hydraulic limitations in sycamore (<i>Acer pseudoplatanus</i>) trees. New Phytologist, 2008, 177, 653-664.	7.3	81
40	Sanio's laws revisited. Sizeâ€dependent changes in the xylem architecture of trees. Ecology Letters, 2007, 10, 1084-1093.	6.4	92