

Thierry Ameglio

List of Publications by Year in descending order

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105
papers

5,614
citations

71102

41
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82547

72
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108
all docs

108
docs citations

108
times ranked

4492
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydraulic architecture of trees: main concepts and results. <i>Annals of Forest Science</i> , 2002, 59, 723-752.	2.0	311
2	Unraveling the Effects of Plant Hydraulics on Stomatal Closure during Water Stress in Walnut. <i>Plant Physiology</i> , 2002, 128, 282-290.	4.8	308
3	Drought-induced leaf shedding in walnut: evidence for vulnerability segmentation. <i>Plant, Cell and Environment</i> , 1993, 16, 879-882.	5.7	260
4	Evaluation of a new centrifuge technique for rapid generation of xylem vulnerability curves. <i>Physiologia Plantarum</i> , 2005, 124, 410-418.	5.2	260
5	Variation in cold hardiness and carbohydrate concentration from dormancy induction to bud burst among provenances of three European oak species. <i>Tree Physiology</i> , 2007, 27, 817-825.	3.1	198
6	RATP: a model for simulating the spatial distribution of radiation absorption, transpiration and photosynthesis within canopies: application to an isolated tree crown. <i>Plant, Cell and Environment</i> , 2001, 24, 395-406.	5.7	183
7	Can phenological models predict tree phenology accurately in the future? The unrevealed hurdle of endodormancy break. <i>Global Change Biology</i> , 2016, 22, 3444-3460.	9.5	178
8	Water stress-induced xylem hydraulic failure is a causal factor of tree mortality in beech and poplar. <i>Annals of Botany</i> , 2013, 112, 1431-1437.	2.9	175
9	Cryo-Scanning Electron Microscopy Observations of Vessel Content during Transpiration in Walnut Petioles. Facts or Artifacts?. <i>Plant Physiology</i> , 2000, 124, 1191-1202.	4.8	157
10	Significance and limits in the use of predawn leaf water potential for tree irrigation. <i>Plant and Soil</i> , 1998, 207, 155-167.	3.7	146
11	Experimental analysis of the role of water and carbon in tree stem diameter variations. <i>Journal of Experimental Botany</i> , 2004, 56, 135-44.	4.8	136
12	Diurnal cycles of embolism formation and repair in petioles of grapevine (<i>Vitis vinifera</i> cv. Chasselas). <i>Journal of Experimental Botany</i> , 2011, 62, 3885-3894.	4.8	135
13	Winter embolism, mechanisms of xylem hydraulic conductivity recovery and springtime growth patterns in walnut and peach trees. <i>Tree Physiology</i> , 2002, 22, 1211-1220.	3.1	129
14	Effects of environmental factors and management practices on microclimate, winter physiology, and frost resistance in trees. <i>Frontiers in Plant Science</i> , 2015, 6, 259.	3.6	128
15	Temperature effects on xylem sap osmolarity in walnut trees: evidence for a vitalistic model of winter embolism repair. <i>Tree Physiology</i> , 2004, 24, 785-793.	3.1	122
16	Mechanisms of xylem recovery from winter embolism in <i>Fagus sylvatica</i> . <i>Tree Physiology</i> , 2001, 21, 27-33.	3.1	115
17	Carbohydrate reserves as a competing sink: evidence from tapping rubber trees. <i>Tree Physiology</i> , 2007, 27, 881-889.	3.1	109
18	Carbohydrate uptake from xylem vessels and its distribution among stem tissues and buds in walnut (<i>Juglans regia</i> L.). <i>Tree Physiology</i> , 2010, 30, 89-102.	3.1	109

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19	Testing the branch autonomy theory: a ¹³ C/ ¹⁴ C double-labelling experiment on differentially shaded branches. <i>Plant, Cell and Environment</i> , 2004, 27, 1159-1168.	5.7	107
20	Winter stem xylem pressure in walnut trees: effects of carbohydrates, cooling and freezing. <i>Tree Physiology</i> , 2001, 21, 387-394.	3.1	89
21	Seasonal variation in xylem pressure of walnut trees: root and stem pressures. <i>Tree Physiology</i> , 2001, 21, 1123-1132.	3.1	82
22	Embolism Formation during Freezing in the Wood of <i>Picea abies</i> . <i>Plant Physiology</i> , 2007, 143, 60-67.	4.8	82
23	Sucrose (JrSUT1) and hexose (JrHT1 and JrHT2) transporters in walnut xylem parenchyma cells: their potential role in early events of growth resumption. <i>Tree Physiology</i> , 2008, 28, 215-224.	3.1	82
24	Are budburst dates, dormancy and cold acclimation in walnut trees (<i>Juglans regia</i> L.) under mainly genotypic or environmental control?. <i>International Journal of Biometeorology</i> , 2011, 55, 763-774.	3.0	79
25	JrSUT1, a putative xylem sucrose transporter, could mediate sucrose influx into xylem parenchyma cells and be up-regulated by freeze-thaw cycles over the autumn-winter period in walnut tree (<i>Juglans</i>) <i>Tj ETQq1 1 0 6784314 rgBT /Over</i>	3.1	82
26	Stem diameter variations and cold hardiness in walnut trees. <i>Journal of Experimental Botany</i> , 2001, 52, 2135-2142.	4.8	76
27	Could rapid diameter changes be facilitated by a variable hydraulic conductance?. <i>Plant, Cell and Environment</i> , 2012, 35, 150-157.	5.7	76
28	Frost hardiness in walnut trees (<i>Juglans regia</i> L.): How to link physiology and modelling?. <i>Tree Physiology</i> , 2013, 33, 1229-1241.	3.1	74
29	The timing of leaf fall affects cold acclimation by interactions with air temperature through water and carbohydrate contents. <i>Environmental and Experimental Botany</i> , 2011, 72, 351-357.	4.2	72
30	Evaluation of the impact of frost resistances on potential altitudinal limit of trees. <i>Tree Physiology</i> , 2013, 33, 891-902.	3.1	69
31	A semi-physiological model of cold hardening and dehardening in walnut stem. <i>Tree Physiology</i> , 2010, 30, 1555-1569.	3.1	61
32	Photosynthetic capacity and temperature responses of photosynthesis of rubber trees (<i>Hevea</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22</i> 2009, 23, 357-365.	1.9	60
33	Freeze-Thaw Stress: Effects of Temperature on Hydraulic Conductivity and Ultrasonic Activity in Ten Woody Angiosperms. <i>Plant Physiology</i> , 2014, 164, 992-998.	4.8	60
34	A new validation of the Scholander pressure chamber technique based on stem diameter variations. <i>Journal of Experimental Botany</i> , 2001, 52, 1361-1365.	4.8	59
35	Unraveling the effects of plant hydraulics on stomatal closure during water stress in walnut. <i>Plant Physiology</i> , 2002, 128, 282-90.	4.8	59
36	Carbohydrate storage in wood and bark of rubber trees submitted to different level of C demand induced by latex tapping. <i>Tree Physiology</i> , 2009, 29, 1021-1031.	3.1	58

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37	Winter variation in xylem sap pH of walnut trees: involvement of plasma membrane H ⁺ -ATPase of vessel-associated cells. <i>Tree Physiology</i> , 2004, 24, 99-105.	3.1	57
38	Effect of tapping activity on the dynamics of radial growth of <i>Hevea brasiliensis</i> trees. <i>Tree Physiology</i> , 2006, 26, 1579-1587.	3.1	56
39	Monitoring of Freezing Dynamics in Trees: A Simple Phase Shift Causes Complexity. <i>Plant Physiology</i> , 2017, 173, 2196-2207.	4.8	53
40	Plasma membrane H ⁺ -ATPase, succinate and isocitrate dehydrogenases activities of vessel-associated cells in walnut trees. <i>Journal of Plant Physiology</i> , 2001, 158, 1263-1271.	3.5	45
41	Spatial activity and expression of plasma membrane H ⁺ -ATPase in stem xylem of walnut during dormancy and growth resumption. <i>Tree Physiology</i> , 2007, 27, 1471-1480.	3.1	44
42	Drought and frost resistance of trees: a comparison of four species at different sites and altitudes. <i>Annals of Forest Science</i> , 2012, 69, 325-333.	2.0	42
43	Cavitation and water fluxes driven by ice water potential in <i>Juglans regia</i> during freeze-thaw cycles. <i>Journal of Experimental Botany</i> , 2016, 67, 739-750.	4.8	40
44	Assessing the effects of earlier snow melt-out on alpine shrub growth: The sooner the better?. <i>Ecological Indicators</i> , 2020, 115, 106455.	6.3	38
45	Assessing frost damages using dynamic models in walnut trees: exposure rather than vulnerability controls frost risks. <i>Plant, Cell and Environment</i> , 2018, 41, 1008-1021.	5.7	36
46	Evidence of drought-sensitive periods from flowering to maturity on highbush blueberry. <i>Scientia Horticulturae</i> , 2001, 89, 23-40.	3.6	35
47	Ultrasonic emissions during ice nucleation and propagation in plant xylem. <i>New Phytologist</i> , 2015, 207, 570-578.	7.3	33
48	Effect of chilling on photosynthesis and antioxidant enzymes in <i>Hevea brasiliensis</i> Muell. Arg.. <i>Trees - Structure and Function</i> , 2009, 23, 863-874.	1.9	32
49	Effect of leaf age and position on light-saturated CO ₂ assimilation rate, photosynthetic capacity, and stomatal conductance in rubber trees. <i>Photosynthetica</i> , 2010, 48, 67-78.	1.7	32
50	Drought-Induced Mortality: Branch Diameter Variation Reveals a Point of No Recovery in Lavender Species. <i>Plant Physiology</i> , 2020, 183, 1638-1649.	4.8	32
51	Vegetation reflectance spectroscopy for biomonitoring of heavy metal pollution in urban soils. <i>Environmental Pollution</i> , 2018, 243, 1912-1922.	7.5	31
52	Limitation of the Cavitron technique by conifer pit aspiration. <i>Journal of Experimental Botany</i> , 2010, 61, 3385-3393.	4.8	30
53	Contrasting strategies to cope with chilling stress among clones of a tropical tree, <i>Hevea brasiliensis</i> . <i>Tree Physiology</i> , 2010, 30, 1391-1402.	3.1	30
54	Modification of photosynthetic regulation in tomato overexpressing glutathione peroxidase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 108-118.	2.4	29

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55	Dynamic Modeling of Carbon Metabolism During the Dormant Period Accurately Predicts the Changes in Frost Hardiness in Walnut Trees <i>Juglans regia</i> L.. <i>Frontiers in Plant Science</i> , 2018, 9, 1746.	3.6	28
56	The effects of root temperature on water flux, potential and root resistance in sunflower. <i>Agronomy for Sustainable Development</i> , 1990, 10, 331-340.	0.8	25
57	EVAPOTRANSPIRATION, WATER STRESS INDICATORS AND SOIL WATER BALANCE IN A <i>PRUNUS PERSICA</i> ORCHARD, IN CENTRAL PORTUGAL. <i>Acta Horticulturae</i> , 1997, , 379-384.	0.2	21
58	YIELD AND PHYSIOLOGICAL RESPONSES OF WALNUT TREES IN SEMI-ARID CONDITIONS: APPLICATION TO IRRIGATION SCHEDULING. <i>Acta Horticulturae</i> , 1997, , 273-280.	0.2	19
59	Genetics of frost hardiness in <i>Juglans regia</i> L. and relationship with growth and phenology. <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	1.6	18
60	Stomatal regulation and xylem cavitation in Clementine (<i>Citrus clementina</i> Hort) under drought conditions. <i>Journal of Horticultural Science and Biotechnology</i> , 2007, 82, 845-848.	1.9	17
61	Characteristics of ultrasonic acoustic emissions from walnut branches during freeze-thaw-induced embolism formation. <i>Journal of Experimental Botany</i> , 2015, 66, 1965-1975.	4.8	17
62	RELATIONS BETWEEN RELATIVE TRANSPIRATION AND PREDAWN LEAF WATER POTENTIAL IN DIFFERENT FRUIT TREE SPECIES. <i>Acta Horticulturae</i> , 1997, , 423-430.	0.2	15
63	Représentativité du potentiel de base sur sols à humidité hétérogène. <i>Agronomy for Sustainable Development</i> , 1996, 16, 493-503.	0.8	15
64	Vessel content debate revisited. <i>Trends in Plant Science</i> , 2001, 6, 13.	8.8	14
65	Changes in ultrasound velocity and attenuation indicate freezing of xylem sap. <i>Agricultural and Forest Meteorology</i> , 2014, 185, 20-25.	4.8	14
66	The cohesion theory debate continues. <i>Trends in Plant Science</i> , 2001, 6, 456.	8.8	13
67	EFFECTS OF WATER STRESS ON DEVELOPMENT GROWTH AND YIELD OF HAZELNUT TREES. <i>Acta Horticulturae</i> , 1994, , 305-314.	0.2	12
68	Carry-over benefit of high internal N pool on growth and function of oak seedlings (<i>Quercus</i>) <i>Tree Physiology</i> , 2011, 31, 1111-1122.	3.2	11
69	Seasonal changes in carbohydrates and water content predict dynamics of frost hardiness in various temperate tree species. <i>Tree Physiology</i> , 2021, 41, 1583-1600.	3.1	11
70	Daily Variations of Stem and Branch Diameter: Short Overview from a Developed Example. , 1992, , 193-204.		11
71	ADAPTATION TO COLD TEMPERATURE AND RESPONSE TO FREEZING IN WALNUT TREE. <i>Acta Horticulturae</i> , 2001, , 247-254.	0.2	10
72	WATER RELATIONS OF HIGHBUSH BLUEBERRY UNDER DROUGHT CONDITIONS. <i>Acta Horticulturae</i> , 2000, , 273-278.	0.2	9

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73	Photosynthesis capacity of <i>Quercus petraea</i> (Matt.) saplings is affected by <i>Molinia caerulea</i> (L.) under high irradiance. <i>Forest Ecology and Management</i> , 2016, 376, 107-117.	3.2	9
74	Water relations in winter: effect on bud break of walnut tree.. , 0, , 109-120.		9
75	SHORT- AND LONG-TERM CARBON ALLOCATION IN YOUNG WALNUT WITH TWO BRANCHES GROWN IN DIFFERENT LIGHT ENVIRONMENTS: A 13C - 14C DOUBLE TRACING EXPERIMENT. <i>Acta Horticulturae</i> , 2001, , 219-226.	0.2	8
76	ADAPTATION TO COLD TEMPERATURE AND RESPONSE TO FREEZING IN ROSES. <i>Acta Horticulturae</i> , 2003, , 515-520.	0.2	8
77	WALNUT CULTIVAR PERFORMANCE OF COLD RESISTANCE IN SOUTH CENTRAL FRANCE. <i>Acta Horticulturae</i> , 2005, , 281-285.	0.2	8
78	Variation in ectomycorrhizal fungal communities associated with Silver linden (<i>Tilia tomentosa</i>) within and across urban areas. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	8
79	Soil organic matter rather than ectomycorrhizal diversity is related to urban tree health. <i>PLoS ONE</i> , 2019, 14, e0225714.	2.5	8
80	Investigating the role of root exudates in the interaction between oak seedlings and purple moor grass in temperate forest. <i>Forest Ecology and Management</i> , 2021, 491, 119175.	3.2	8
81	Improved <i>Deschampsia cespitosa</i> growth by nitrogen fertilization jeopardizes <i>Quercus petraea</i> regeneration through intensification of competition. <i>Basic and Applied Ecology</i> , 2018, 31, 21-32.	2.7	7
82	Below-ground nitrogen transfer from oak seedlings facilitates <i>Molinia</i> growth: 15N pulse-chase labelling. <i>Plant and Soil</i> , 2020, 449, 343-356.	3.7	7
83	WATER RELATIONS AND HYDRAULIC ARCHITECTURE OF PEACH TREES UNDER DROUGHT CONDITIONS. <i>Acta Horticulturae</i> , 1998, , 355-362.	0.2	7
84	GELISTÃcÂ,Ãc: A NEW TOOL FOR TESTING FROST HARDINESS BY STEM DIAMETER VARIATIONS ON WALNUT. <i>Acta Horticulturae</i> , 2003, , 509-514.	0.2	7
85	Foliar optical traits indicate that sealed planting conditions negatively affect urban tree health. <i>Ecological Indicators</i> , 2018, 95, 895-906.	6.3	6
86	Freezing Stress in Tree Xylem. <i>Progress in Botany Fortschritte Der Botanik</i> , 2016, , 381-414.	0.3	6
87	A LIMIT IN THE USE OF PREDAWN LEAF WATER POTENTIAL FOR TREE IRRIGATION. <i>Acta Horticulturae</i> , 1997, , 431-438.	0.2	6
88	WINTER BIOLOGY IN WALNUT TREE: FREEZING TOLERANCE BY COLD ACCLIMATION AND EMBOLISM REPAIR. <i>Acta Horticulturae</i> , 2005, , 241-249.	0.2	5
89	Comparaison de 3 mÃ©thodes de mesure de la transpiration de jeunes arbres. <i>Agronomy for Sustainable Development</i> , 1993, 13, 751-759.	0.8	5
90	EFFECTS OF WATER STRESS ON TRANSPIRATION, RADIAL GROWTH AND YIELD IN HIGHBUSH BLUEBERRY. <i>Acta Horticulturae</i> , 2000, , 923-928.	0.2	5

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91	WATER RELATIONS IN WALNUT DURING WINTER. Acta Horticulturae, 2001, , 239-246.	0.2	4
92	La cavitation : un mécanisme perturbant la circulation de l'eau chez les végétaux. Cavitation: a mechanism which perturbs water transfer in plants. Mécanique Et Industries, 2001, 2, 289-298.	0.2	4
93	ESTIMATING TRANSPIRATION OF APPLE TREE BRANCHES FROM LEAF STOMATAL CONDUCTANCE MEASUREMENTS - A FIRST ASSESSMENT OF RATP MODEL ON APPLE TREES. Acta Horticulturae, 2002, , 95-100.	0.2	4
94	PARAMETERIZATION OF THE FUNCTIONAL-STRUCTURAL RATP MODEL FOR APPLE TREES: APPLICATION TO SIMULATE PHOTOSYNTHESIS AND TRANSPIRATION OF FRUITING BRANCHES. Acta Horticulturae, 2006, , 77-84.	0.2	3
95	CYTOLOGICAL AND IMMUNOLOGICAL APPROACH OF VESSEL-ASSOCIATED CELLS IN UNDERSTANDING THE WINTER SUGAR EXCHANGES, IN WALNUT STEMS. Acta Horticulturae, 2001, , 295-300.	0.2	2
96	SUGARS EXCHANGES BETWEEN VESSELS ASSOCIATED CELLS AND XYLEM VESSELS, IN RELATION WITH THE TEMPERATURE, IN WALNUT. Acta Horticulturae, 2001, , 309-315.	0.2	2
97	ROLE OF WATER AND CARBON IN TREE STEM DIAMETER VARIATIONS: A DOUBLE-GIRDLING EXPERIMENT. Acta Horticulturae, 2005, , 269-273.	0.2	2
98	Detection of acoustic events in lavender for measuring xylem vulnerability to embolism and cellular damage. Journal of Experimental Botany, 2022, 73, 3699-3710.	4.8	2
99	Implications of Urban Land Management on the Cooling Properties of Urban Trees: Citizen Science and Laboratory Analysis. Sustainability, 2021, 13, 13656.	3.2	2
100	IRRIGATION OF WALNUT TREES MANAGING THE WATER POTENTIAL. Acta Horticulturae, 2005, , 473-477.	0.2	1
101	A new validation of the Scholander pressure chamber technique based on stem diameter variations. Journal of Experimental Botany, 2001, 52, 1361-1365.	4.8	1
102	Detecting cellular damages in freezing plants: are acoustic emissions useful?. , 2021, , .		1
103	CARBON AND WATER FLUXES IN VEGETATING 3-YEAR-OLD WALNUTS. Acta Horticulturae, 1997, , 153-158.	0.2	0
104	IMPLICATION OF THE PLASMA MEMBRANE H ⁺ -ATPASE IN SUGAR EXCHANGES BETWEEN VESSELS-ASSOCIATED CELLS AND XYLEM VESSELS, IN WALNUT STEMS. Acta Horticulturae, 2001, , 301-307.	0.2	0
105	Microstructural and functional aspects of water transfer under tension in plants. , 0, , .		0