

Hervé Cochard

List of Publications by Year in descending order

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Version: 2024-02-01

238
papers

22,231
citations

7568

77
h-index

10445

139
g-index

244
all docs

244
docs citations

244
times ranked

11647
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydraulic failure and tree mortality: from correlation to causation. <i>Trends in Plant Science</i> , 2022, 27, 335-345.	8.8	47
2	Stomatal responses in grapevine become increasingly more tolerant to low water potentials throughout the growing season. <i>Plant Journal</i> , 2022, 109, 804-815.	5.7	19
3	Mechanisms of woody-plant mortality under rising drought, CO ₂ and vapour pressure deficit. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 294-308.	29.7	163
4	Measuring xylem hydraulic vulnerability for long-vessel species: an improved methodology with the flow centrifugation technique. <i>Annals of Forest Science</i> , 2022, 79, .	2.0	6
5	Drought acclimation of <i>Quercus ilex</i> leaves improves tolerance to moderate drought but not resistance to severe water stress. <i>Plant, Cell and Environment</i> , 2022, 45, 1967-1984.	5.7	26
6	Hydraulic traits are coupled with plant anatomical traits under drought "rewatering cycles in <i>Ginkgo biloba</i> L.. <i>Tree Physiology</i> , 2022, 42, 1216-1227.	3.1	5
7	Variations in bark structural properties affect both water loss and carbon economics in neotropical savanna trees in the Cerrado region of Brazil. <i>Journal of Ecology</i> , 2022, 110, 1826-1843.	4.0	10
8	Nighttime transpiration represents a negligible part of water loss and does not increase the risk of water stress in grapevine. <i>Plant, Cell and Environment</i> , 2021, 44, 387-398.	5.7	33
9	Where do leaf water leaks come from? Tradeoffs underlying the variability in minimum conductance across tropical savanna species with contrasting growth strategies. <i>New Phytologist</i> , 2021, 229, 1415-1430.	7.3	34
10	Coordination of stem and leaf traits define different strategies to regulate water loss and tolerance ranges to aridity. <i>New Phytologist</i> , 2021, 230, 497-509.	7.3	49
11	Seasonal and long-term consequences of esca grapevine disease on stem xylem integrity. <i>Journal of Experimental Botany</i> , 2021, 72, 3914-3928.	4.8	16
12	Delayed effect of drought on xylem vulnerability to embolism in <i>Fagus sylvatica</i> . <i>Canadian Journal of Forest Research</i> , 2021, 51, 622-626.	1.7	7
13	SurEau: a mechanistic model of plant water relations under extreme drought. <i>Annals of Forest Science</i> , 2021, 78, 1.	2.0	40
14	RNAi suppression of DNA methylation affects the drought stress response and genome integrity in transgenic poplar. <i>New Phytologist</i> , 2021, 232, 80-97.	7.3	31
15	Using electrical resistivity tomography to detect wetwood and estimate moisture content in silver fir (<i>Abies alba</i> Mill.). <i>Annals of Forest Science</i> , 2021, 78, 1.	2.0	9
16	Acclimation of hydraulic and morphological traits to water deficit delays hydraulic failure during simulated drought in poplar. <i>Tree Physiology</i> , 2021, 41, 2008-2021.	3.1	21
17	The interplay of hydraulic failure and cell vitality explains tree capacity to recover from drought. <i>Physiologia Plantarum</i> , 2021, 172, 247-257.	5.2	42
18	Overaccumulation of abscisic acid in transgenic tomato plants increases the risk of hydraulic failure. <i>Plant, Cell and Environment</i> , 2020, 43, 548-562.	5.7	24

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19	Water relations, photosynthesis, xylem embolism and accumulation of carbohydrates and cyclitols in two Eucalyptus species (<i>E. camaldulensis</i> and <i>E. torquata</i>) subjected to dehydration–rehydration cycle. <i>Trees - Structure and Function</i> , 2020, 34, 1439-1452.	1.9	11
20	Drought-induced lacuna formation in the stem causes hydraulic conductance to decline before xylem embolism in <i>Selaginella</i> . <i>New Phytologist</i> , 2020, 227, 1804-1817.	7.3	18
21	The DroughtBox: A new tool for phenotyping residual branch conductance and its temperature dependence during drought. <i>Plant, Cell and Environment</i> , 2020, 43, 1584-1594.	5.7	26
22	Neither xylem collapse, cavitation, or changing leaf conductance drive stomatal closure in wheat. <i>Plant, Cell and Environment</i> , 2020, 43, 854-865.	5.7	59
23	Lack of vulnerability segmentation in four angiosperm tree species: evidence from direct X-ray microtomography observation. <i>Annals of Forest Science</i> , 2020, 77, 1.	2.0	26
24	The sequence and thresholds of leaf hydraulic traits underlying grapevine varietal differences in drought tolerance. <i>Journal of Experimental Botany</i> , 2020, 71, 4333-4344.	4.8	67
25	Hanging by a thread? Forests and drought. <i>Science</i> , 2020, 368, 261-266.	12.6	431
26	Mitigating the open vessel artefact in centrifuge-based measurement of embolism resistance. <i>Tree Physiology</i> , 2019, 39, 143-155.	3.1	17
27	On the minimum leaf conductance: its role in models of plant water use, and ecological and environmental controls. <i>New Phytologist</i> , 2019, 221, 693-705.	7.3	228
28	Measuring the pulse of trees; using the vascular system to predict tree mortality in the 21st century. , 2019, 7, coz046.		15
29	Exploring the Hydraulic Failure Hypothesis of Esca Leaf Symptom Formation. <i>Plant Physiology</i> , 2019, 181, 1163-1174.	4.8	32
30	Native-source climate determines the Douglas-fir potential of adaptation to drought. <i>Forest Ecology and Management</i> , 2019, 444, 9-20.	3.2	24
31	Aquaporins and water control in drought-stressed poplar leaves: A glimpse into the extraxylem vascular territories. <i>Environmental and Experimental Botany</i> , 2019, 162, 25-37.	4.2	19
32	Large hydraulic safety margins protect Neotropical canopy rainforest tree species against hydraulic failure during drought. <i>Annals of Forest Science</i> , 2019, 76, 1.	2.0	39
33	Adjustments and coordination of hydraulic, leaf and stem traits along a water availability gradient. <i>New Phytologist</i> , 2019, 223, 632-646.	7.3	184
34	A Structure Shaped by Fire, but Also Water: Ecological Consequences of the Variability in Bark Properties Across 31 Species From the Brazilian Cerrado. <i>Frontiers in Plant Science</i> , 2019, 10, 1718.	3.6	36
35	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.	7.3	18
36	Variation in xylem vulnerability to embolism in European beech from geographically marginal populations. <i>Tree Physiology</i> , 2018, 38, 173-185.	3.1	93

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37	Is There Variability for Xylem Vulnerability to Cavitation in Walnut Tree Cultivars and Species (<i>Juglans</i>)? <i>Tree Physiology</i> , 2018, 38, 107-115.	1.0	14
38	Cellulose and homogalacturonans influence xylem hydraulic properties in poplar. <i>Physiologia Plantarum</i> , 2018, 163, 502-515.	5.2	6
39	Is Anisohydry: A Plant-Environment Interaction Rather Than a Simple Hydraulic Trait. <i>Trends in Plant Science</i> , 2018, 23, 112-120.	8.8	243
40	Quantifying in situ phenotypic variability in the hydraulic properties of four tree species across their distribution range in Europe. <i>PLoS ONE</i> , 2018, 13, e0196075.	2.5	25
41	The Causes of Leaf Hydraulic Vulnerability and Its Influence on Gas Exchange in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2018, 178, 1584-1601.	4.8	50
42	An inconvenient truth about xylem resistance to embolism in the model species for refilling <i>Laurus nobilis</i> L.. <i>Annals of Forest Science</i> , 2018, 75, 1.	2.0	53
43	Embolism and mechanical resistances play a key role in dehydration tolerance of a perennial grass <i>Dactylis glomerata</i> L.. <i>Annals of Botany</i> , 2018, 122, 325-336.	2.9	28
44	Drivers of apoplastic freezing in gymnosperm and angiosperm branches. <i>Ecology and Evolution</i> , 2018, 8, 333-343.	1.9	16
45	Xylem resistance to embolism: presenting a simple diagnostic test for the open vessel artefact. <i>New Phytologist</i> , 2017, 215, 489-499.	7.3	56
46	Grapevine acclimation to water deficit: the adjustment of stomatal and hydraulic conductance differs from petiole embolism vulnerability. <i>Planta</i> , 2017, 245, 1091-1104.	3.2	55
47	Plant resistance to drought depends on timely stomatal closure. <i>Ecology Letters</i> , 2017, 20, 1437-1447.	6.4	486
48	Differences in functional and xylem anatomical features allow <i>Cistus</i> species to co-occur and cope differently with drought in the Mediterranean region. <i>Tree Physiology</i> , 2017, 37, 755-766.	3.1	22
49	Leaf vein xylem conduit diameter influences susceptibility to embolism and hydraulic decline. <i>New Phytologist</i> , 2017, 213, 1076-1092.	7.3	102
50	A synthesis of radial growth patterns preceding tree mortality. <i>Global Change Biology</i> , 2017, 23, 1675-1690.	9.5	394
51	Osmolality and Non-Structural Carbohydrate Composition in the Secondary Phloem of Trees across a Latitudinal Gradient in Europe. <i>Frontiers in Plant Science</i> , 2016, 7, 726.	3.6	60
52	Desiccation and Mortality Dynamics in Seedlings of Different European Beech (<i>Fagus sylvatica</i> L.) Populations under Extreme Drought Conditions. <i>Frontiers in Plant Science</i> , 2016, 7, 751.	3.6	72
53	Indirect Evidence for Genetic Differentiation in Vulnerability to Embolism in <i>Pinus halepensis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 768.	3.6	49
54	Plasticity in Vulnerability to Cavitation of <i>Pinus canariensis</i> Occurs Only at the Driest End of an Aridity Gradient. <i>Frontiers in Plant Science</i> , 2016, 7, 769.	3.6	60

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55	Ear Rachis Xylem Occlusion and Associated Loss in Hydraulic Conductance Coincide with the End of Grain Filling for Wheat. <i>Frontiers in Plant Science</i> , 2016, 7, 920.	3.6	11
56	Are needles of <i>Pinus pinaster</i> more vulnerable to xylem embolism than branches? New insights from X-ray computed tomography. <i>Plant, Cell and Environment</i> , 2016, 39, 860-870.	5.7	74
57	Grapevine petioles are more sensitive to drought induced embolism than stems: evidence from <i>in vivo</i> MRI and microcomputed tomography observations of hydraulic vulnerability segmentation. <i>Plant, Cell and Environment</i> , 2016, 39, 1886-1894.	5.7	82
58	<i>VvPIP2;4N</i> aquaporin involvement in controlling leaf hydraulic capacitance and resistance in grapevine. <i>Physiologia Plantarum</i> , 2016, 158, 284-296.	5.2	18
59	Weak tradeoff between xylem safety and xylem-specific hydraulic efficiency across the world's woody plant species. <i>New Phytologist</i> , 2016, 209, 123-136.	7.3	466
60	On research priorities to advance understanding of the safety-efficiency tradeoff in xylem. <i>New Phytologist</i> , 2016, 211, 1156-1158.	7.3	21
61	Evidence for Hydraulic Vulnerability Segmentation and Lack of Xylem Refilling under Tension. <i>Plant Physiology</i> , 2016, 172, 1657-1668.	4.8	132
62	Direct observation and modelling of embolism spread between xylem conduits: a case study in Scots pine. <i>Plant, Cell and Environment</i> , 2016, 39, 2774-2785.	5.7	27
63	Testing the "microbubble effect"™ using the Cavatron technique to measure xylem water extraction curves. <i>AoB PLANTS</i> , 2016, 8, .	2.3	21
64	Herbaceous angiosperms are not more vulnerable to drought-induced embolism than angiosperm trees. <i>Plant Physiology</i> , 2016, 172, pp.00829.2016.	4.8	70
65	Low intra-tree variability in resistance to embolism in four Pinaceae species. <i>Annals of Forest Science</i> , 2016, 73, 681-689.	2.0	19
66	Noninvasive Measurement of Vulnerability to Drought-Induced Embolism by X-Ray Microtomography. <i>Plant Physiology</i> , 2016, 170, 273-282.	4.8	133
67	Short-time xylem relaxation results in reliable quantification of embolism in grapevine petioles and sheds new light on their hydraulic strategy. <i>Tree Physiology</i> , 2016, 36, 748-755.	3.1	24
68	Balancing the risks of hydraulic failure and carbon starvation: a twig scale analysis in declining Scots pine. <i>Plant, Cell and Environment</i> , 2015, 38, 2575-2588.	5.7	79
69	Direct X-Ray Microtomography Observation Confirms the Induction of Embolism upon Xylem Cutting under Tension. <i>Plant Physiology</i> , 2015, 167, 40-43.	4.8	156
70	Stem xylem resistance to cavitation is related to xylem structure but not to growth and water-use efficiency at the within-population level in <i>Populus nigra</i> L.. <i>Journal of Experimental Botany</i> , 2015, 66, 4643-4652.	4.8	41
71	Vulnerability to drought-induced cavitation in poplars: synthesis and future opportunities. <i>Plant, Cell and Environment</i> , 2015, 38, 1233-1251.	5.7	44
72	Extreme Aridity Pushes Trees to Their Physical Limits. <i>Plant Physiology</i> , 2015, 168, 804-807.	4.8	51

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73	Immunolabelling of intervessel pits for polysaccharides and lignin helps in understanding their hydraulic properties in <i>Populus tremula</i> – <i>alba</i> . <i>Annals of Botany</i> , 2015, 115, 187-199.	2.9	44
74	Variation in photosynthetic performance and hydraulic architecture across European beech (<i>Fagus</i>). <i>Tree Physiology</i> , 2015, 35, 34-46.	3.1	83
75	Acclimation of mechanical and hydraulic functions in trees: impact of the thigmomorphogenetic process. <i>Frontiers in Plant Science</i> , 2015, 6, 266.	3.6	58
76	Is acrotonic budburst pattern in spring a typical behavior of the low-chilling apple cultivar 'Eva' in mild winter conditions? An approach combining ex planta single-node cutting test and in planta bud water content during dormancy. <i>Scientia Horticulturae</i> , 2015, 188, 84-88.	3.6	6
77	Are the effects of winter temperatures on spring budburst mediated by the bud water status or related to a whole-shoot effect? <i>Insights in the apple tree. Trees - Structure and Function</i> , 2015, 29, 675-682.	1.9	2
78	X-ray microtomography (microCT): a reference technology for high-resolution quantification of xylem embolism in trees. <i>Plant, Cell and Environment</i> , 2015, 38, 201-206.	5.7	160
79	Tree shoot bending generates hydraulic pressure pulses: a new long-distance signal?. <i>Journal of Experimental Botany</i> , 2014, 65, 1997-2008.	4.8	22
80	Ultrasonic emissions reveal individual cavitation bubbles in water-stressed wood. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140480.	3.4	48
81	Coping with low light under high atmospheric dryness: shade acclimation in a Mediterranean conifer (<i>Abies pinsapo</i> Boiss.). <i>Tree Physiology</i> , 2014, 34, 1321-1333.	3.1	12
82	Leaf Shrinkage with Dehydration: Coordination with Hydraulic Vulnerability and Drought Tolerance. <i>Plant Physiology</i> , 2014, 164, 1772-1788.	4.8	175
83	Recent advances in tree hydraulics highlight the ecological significance of the hydraulic safety margin. <i>New Phytologist</i> , 2014, 203, 355-358.	7.3	158
84	Hydrolase treatments help unravel the function of intervessel pits in xylem hydraulics. <i>Physiologia Plantarum</i> , 2014, 150, 388-396.	5.2	14
85	Limited genetic variability and phenotypic plasticity detected for cavitation resistance in a Mediterranean pine. <i>New Phytologist</i> , 2014, 201, 874-886.	7.3	170
86	Vulnerability to cavitation in <i>Olea europaea</i> current-year shoots: further evidence of an open-vessel artifact associated with centrifuge and air-injection techniques. <i>Physiologia Plantarum</i> , 2014, 152, 465-474.	5.2	92
87	Physiological differences explain the coexistence of different regeneration strategies in Mediterranean ecosystems. <i>New Phytologist</i> , 2014, 201, 1277-1288.	7.3	90
88	Modelling the mechanical behaviour of pit membranes in bordered pits with respect to cavitation resistance in angiosperms. <i>Annals of Botany</i> , 2014, 114, 325-334.	2.9	59
89	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
90	Strong leaf morphological, anatomical, and physiological responses of a subtropical woody bamboo (<i>Sinarundinaria nitida</i>) to contrasting light environments. <i>Plant Ecology</i> , 2014, 215, 97-109.	1.6	54

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91	How reliable are methods to assess xylem vulnerability to cavitation? The issue of 'open vessel' artifact in oaks. <i>Tree Physiology</i> , 2014, 34, 894-905.	3.1	78
92	The earliest wood and its hydraulic properties documented in 407-million-year-old fossils using synchrotron microtomography. <i>Botanical Journal of the Linnean Society</i> , 2014, 175, 423-437.	1.6	56
93	Gas flow in plant microfluidic networks controlled by capillary valves. <i>Physical Review E</i> , 2014, 89, 033019.	2.1	22
94	Hydraulic failure and repair are not routine in trees. <i>Annals of Forest Science</i> , 2013, 70, 659-661.	2.0	117
95	Embolism resistance as a key mechanism to understand adaptive plant strategies. <i>Current Opinion in Plant Biology</i> , 2013, 16, 287-292.	7.1	181
96	Methods for measuring plant vulnerability to cavitation: a critical review. <i>Journal of Experimental Botany</i> , 2013, 64, 4779-4791.	4.8	319
97	Evaluation of the impact of frost resistances on potential altitudinal limit of trees. <i>Tree Physiology</i> , 2013, 33, 891-902.	3.1	69
98	The evolution and function of vessel and pit characters with respect to cavitation resistance across 10 <i>Prunus</i> species. <i>Tree Physiology</i> , 2013, 33, 684-694.	3.1	82
99	An overview of the hydraulic systems in early land plants. <i>IAWA Journal</i> , 2013, 34, 333-351.	2.7	14
100	Modulation of bud survival in <i>Populus nigra</i> sprouts in response to water stress-induced embolism. <i>Tree Physiology</i> , 2013, 33, 261-274.	3.1	28
101	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
102	Aquaporins and Leaf Hydraulics: Poplar Sheds New Light. <i>Plant and Cell Physiology</i> , 2013, 54, 1963-1975.	3.1	44
103	Xylem embolism threshold for catastrophic hydraulic failure in angiosperm trees. <i>Tree Physiology</i> , 2013, 33, 672-683.	3.1	406
104	Vulnerability to cavitation, hydraulic efficiency, growth and survival in an insular pine (<i>Pinus</i>)	2.9	76
105	<i>Arabidopsis thaliana</i> as a model species for xylem hydraulics: does size matter?. <i>Journal of Experimental Botany</i> , 2013, 64, 2295-2305.	4.8	46
106	Light-mediated leaf induction and contribution of both the PIP1s and PIP2s aquaporins in five tree species: walnut (<i>Juglans regia</i>) case study. <i>Tree Physiology</i> , 2012, 32, 423-434.	3.1	51
107	Hydraulic efficiency and safety of vascular and non-vascular components in <i>Pinus pinaster</i> leaves. <i>Tree Physiology</i> , 2012, 32, 1161-1170.	3.1	39
108	Global convergence in the vulnerability of forests to drought. <i>Nature</i> , 2012, 491, 752-755.	27.8	1,944

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109	Drought-induced embolism in current-year shoots of two Mediterranean evergreen oaks. <i>Forest Ecology and Management</i> , 2012, 285, 1-10.	3.2	35
110	Micro-evolutionary patterns of juvenile wood density in a pine species. <i>Plant Ecology</i> , 2012, 213, 1781-1792.	1.6	19
111	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
112	Cork oak (<i>Quercus suber</i> L.) seedlings acclimate to elevated CO ₂ and water stress: photosynthesis, growth, wood anatomy and hydraulic conductivity. <i>Trees - Structure and Function</i> , 2012, 26, 1145-1157.	1.9	43
113	Early gene expression in the walnut tree occurring during stimulation of leaf hydraulic conductance by irradiance. <i>Biologia Plantarum</i> , 2012, 56, 657-666.	1.9	7
114	Could rapid diameter changes be facilitated by a variable hydraulic conductance?. <i>Plant, Cell and Environment</i> , 2012, 35, 150-157.	5.7	76
115	Plasmodesmatal pores in the torus of bordered pit membranes affect cavitation resistance of conifer xylem. <i>Plant, Cell and Environment</i> , 2012, 35, 1109-1120.	5.7	66
116	No trade-off between hydraulic and mechanical properties in several transgenic poplars modified for lignins metabolism. <i>Environmental and Experimental Botany</i> , 2012, 77, 185-195.	4.2	35
117	Understanding trait interactions and their impacts on growth in Scots pine branches across Europe. <i>Functional Ecology</i> , 2012, 26, 541-549.	3.6	52
118	Hydraulic efficiency and coordination with xylem resistance to cavitation, leaf function, and growth performance among eight unrelated <i>Populus deltoides</i> — <i>Populus nigra</i> hybrids. <i>Journal of Experimental Botany</i> , 2011, 62, 2093-2106.	4.8	63
119	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
120	How reliable is the double-ended pressure sleeve technique for assessing xylem vulnerability to cavitation in woody angiosperms?. <i>Physiologia Plantarum</i> , 2011, 142, 205-210.	5.2	53
121	Genetic determinism of anatomical and hydraulic traits within an apple progeny. <i>Plant, Cell and Environment</i> , 2011, 34, 1276-1290.	5.7	38
122	Improvement to the air-injection technique to estimate xylem vulnerability to cavitation. <i>Trees - Structure and Function</i> , 2011, 25, 705-710.	1.9	23
123	Phenotypic plasticity in mesic populations of <i>Pinus pinaster</i> improves resistance to xylem embolism (P50) under severe drought. <i>Trees - Structure and Function</i> , 2011, 25, 1033-1042.	1.9	102
124	Embolism induced by winter drought may be critical for the survival of <i>Pinus sylvestris</i> L. near its southern distribution limit. <i>Annals of Forest Science</i> , 2011, 68, 565.	2.0	23
125	Genetic variation of xylem hydraulic properties shows that wood density is involved in adaptation to drought in Douglas-fir (<i>Pseudotsuga menziesii</i> (Mirb.)). <i>Annals of Forest Science</i> , 2011, 68, 747-757.	2.0	48
126	Genotypic variability and phenotypic plasticity of cavitation resistance in <i>Fagus sylvatica</i> L. across Europe. <i>Tree Physiology</i> , 2011, 31, 1175-1182.	3.1	159

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127	Hydraulic traits are associated with the distribution range of two closely related Mediterranean firs, <i>Abies alba</i> Mill. and <i>Abies pinsapo</i> Boiss.. <i>Tree Physiology</i> , 2011, 31, 1067-1075.	3.1	29
128	Water loss regulation in mature <i>Hevea brasiliensis</i> : effects of intermittent drought in the rainy season and hydraulic regulation. <i>Tree Physiology</i> , 2011, 31, 751-762.	3.1	55
129	Decline of Leaf Hydraulic Conductance with Dehydration: Relationship to Leaf Size and Venation Architecture. <i>Plant Physiology</i> , 2011, 156, 832-843.	4.8	318
130	Uniform Selection as a Primary Force Reducing Population Genetic Differentiation of Cavitation Resistance across a Species Range. <i>PLoS ONE</i> , 2011, 6, e23476.	2.5	129
131	Effect of Trunk Locations on Micro-Change of Trunk Girth in Mature Rubber Trees (<i>Hevea brasiliensis</i>). <i>Asian Journal of Plant Sciences</i> , 2011, 10, 140-146.	0.4	0
132	Are symplast tolerance to intense drought conditions and xylem vulnerability to cavitation coordinated? An integrated analysis of photosynthetic, hydraulic and leaf level processes in two Mediterranean drought-resistant species. <i>Environmental and Experimental Botany</i> , 2010, 69, 233-242.	4.2	73
133	Does sample length influence the shape of xylem embolism vulnerability curves? A test with the Cavitron spinning technique. <i>Plant, Cell and Environment</i> , 2010, 33, no-no.	5.7	103
134	Common trade-offs between xylem resistance to cavitation and other physiological traits do not hold among unrelated <i>Populus deltoides</i> — <i>Populus nigra</i> hybrids. <i>Plant, Cell and Environment</i> , 2010, 33, no-no.	5.7	75
135	An overview of models of stomatal conductance at the leaf level. <i>Plant, Cell and Environment</i> , 2010, 33, no-no.	5.7	462
136	Mechanism of water stress induced cavitation in conifers: bordered pit structure and function support the hypothesis of seal capillary seeding. <i>Plant, Cell and Environment</i> , 2010, 33, 2101-2111.	5.7	216
137	Poplar vulnerability to xylem cavitation acclimates to drier soil conditions. <i>Physiologia Plantarum</i> , 2010, 139, 280-8.	5.2	90
138	The effects of sap ionic composition on xylem vulnerability to cavitation. <i>Journal of Experimental Botany</i> , 2010, 61, 275-285.	4.8	59
139	Transient thermal dissipation method of xylem sap flow measurement: multi-species calibration and field evaluation. <i>Tree Physiology</i> , 2010, 30, 139-148.	3.1	43
140	Calcium Is a Major Determinant of Xylem Vulnerability to Cavitation. <i>Plant Physiology</i> , 2010, 153, 1932-1939.	4.8	48
141	Limitation of the Cavitron technique by conifer pit aspiration. <i>Journal of Experimental Botany</i> , 2010, 61, 3385-3393.	4.8	30
142	Decoding Leaf Hydraulics with a Spatially Explicit Model: Principles of Venation Architecture and Implications for Its Evolution. <i>American Naturalist</i> , 2010, 175, 447-460.	2.1	146
143	Insights into xylem vulnerability to cavitation in <i>Fagus sylvatica</i> L.: phenotypic and environmental sources of variability. <i>Tree Physiology</i> , 2010, 30, 1448-1455.	3.1	74
144	Comparative impacts of water stress on the leaf anatomy of a drought-resistant and a drought-sensitive olive cultivar. <i>Journal of Horticultural Science and Biotechnology</i> , 2010, 85, 289-294.	1.9	113

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145	Hydraulic Failure Defines the Recovery and Point of Death in Water-Stressed Conifers. <i>Plant Physiology</i> , 2009, 149, 575-584.	4.8	604
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148	Capacitive effect of cavitation in xylem conduits: results from a dynamic model. <i>Plant, Cell and Environment</i> , 2009, 32, 10-21.	5.7	115
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156	Effects of shoot bending on lateral fate and hydraulics: invariant and changing traits across five apple genotypes. <i>Journal of Experimental Botany</i> , 2007, 58, 4018-4018.	4.8	3
157	Effects of shoot bending on lateral fate and hydraulics: invariant and changing traits across five apple genotypes. <i>Journal of Experimental Botany</i> , 2007, 58, 3537-3547.	4.8	29
158	Embolism Formation during Freezing in the Wood of <i>Picea abies</i> Å. <i>Plant Physiology</i> , 2007, 143, 60-67.	4.8	82
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161	Cavitation in plants at low temperature: is sap transport limited by the tensile strength of water as expected from Briggsâ€™ Zâ€™tube experiment?. <i>New Phytologist</i> , 2007, 173, 571-575.	7.3	19
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165	Evaluation of a new centrifuge technique for rapid generation of xylem vulnerability curves. <i>Physiologia Plantarum</i> , 2005, 124, 410-418.	5.2	260
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170	Hydraulic architecture of leaf blades: where is the main resistance?. <i>Plant, Cell and Environment</i> , 2004, 27, 1257-1267.	5.7	159
171	The Cohesion-Tension Theory. <i>New Phytologist</i> , 2004, 163, 451-452.	7.3	68
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