

# Trends in wood density and structure are linked to previous negative pressure

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of epinephrine and 5-hydroxytryptamine on in vitro thyroid iodine organification. <i>European Journal of Endocrinology</i> , 1981, 97, 207-212.	1.9	5
2	Functional and ecological xylem anatomy. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2001, 4, 97-115.	1.1	624
3	Multitasking and tradeoffs in stems, and the costly dominion of domatia. <i>New Phytologist</i> , 2001, 151, 311-313.	3.5	7
4	How do water transport and water storage differ in coniferous earlywood and latewood?. <i>Journal of Experimental Botany</i> , 2002, 53, 2369-2379.	2.4	216
5	Age- and position-related changes in hydraulic versus mechanical dysfunction of xylem: inferring the design criteria for Douglas-fir wood structure. <i>Tree Physiology</i> , 2002, 22, 91-104.	1.4	137
6	Clonal variation of wood density record of cambium reaction to water deficit in <i>Picea abies</i> (L.) Karst. <i>Annals of Forest Science</i> , 2002, 59, 533-540.	0.8	47
7	Hydraulic architecture of trees: main concepts and results. <i>Annals of Forest Science</i> , 2002, 59, 723-752.	0.8	311
8	Soil Water Uptake and Water Transport Through Root Systems. , 2002, , 663-681.		5
9	Universal scaling in tree and vascular plant allometry: toward a general quantitative theory linking plant form and function from cells to ecosystems. <i>Tree Physiology</i> , 2002, 22, 1045-1064.	1.4	316
10	Xylem hydraulic properties of roots and stems of nine Mediterranean woody species. <i>Oecologia</i> , 2002, 133, 19-29.	0.9	309
11	Water deficits and hydraulic limits to leaf water supply. <i>Plant, Cell and Environment</i> , 2002, 25, 251-263.	2.8	707
12	Title is missing!. <i>Plant Ecology</i> , 2003, 169, 131-141.	0.7	84
13	Functional convergence in plant responses to the environment. <i>Oecologia</i> , 2003, 134, 1-11.	0.9	294
14	Selection for improved growth and wood quality in lodgepole pine: effects on phenology, hydraulic architecture and growth of seedlings. <i>Trees - Structure and Function</i> , 2003, 17, 269-277.	0.9	17
15	Identification, measurement and interpretation of tree rings in woody species from mediterranean climates. <i>Biological Reviews</i> , 2003, 78, 119-148.	4.7	345
16	A new method for vulnerability analysis of small xylem areas reveals that compression wood of Norway spruce has lower hydraulic safety than opposite wood. <i>Plant, Cell and Environment</i> , 2003, 26, 1365-1371.	2.8	68
17	Relationship between growth rates and xylem hydraulic characteristics in young, mature and old-growth ponderosa pine trees. <i>Plant, Cell and Environment</i> , 2003, 26, 471-483.	2.8	109
18	Whole-tree water transport scales with sapwood capacitance in tropical forest canopy trees. <i>Plant, Cell and Environment</i> , 2003, 26, 1147-1155.	2.8	230

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19	A demonstration of the theoretical prediction that sap velocity is related to wood density in the conifer <i>Dacrydium cupressinum</i> . <i>New Phytologist</i> , 2003, 158, 477-488.	3.5	41
20	Assessing elevated CO <sub>2</sub> responses using meta-analysis. <i>New Phytologist</i> , 2003, 160, 6-7.	3.5	6
21	Drought damage and recovery – a conceptual model. <i>New Phytologist</i> , 2003, 160, 7-14.	3.5	24
22	Canopy gaps to climate change – extreme events, ecology and evolution. <i>New Phytologist</i> , 2003, 160, 2-4.	3.5	27
23	Speciation – a rebirth. <i>New Phytologist</i> , 2003, 160, 14-17.	3.5	7
24	Attraction, predation and marriages of convenience. <i>New Phytologist</i> , 2003, 160, 17-19.	3.5	0
25	Welcome to new editors – development, eco-devo and environmental adaptation. <i>New Phytologist</i> , 2003, 160, 1-2.	3.5	19
26	Taxonomic misidentification in public DNA databases. <i>New Phytologist</i> , 2003, 160, 4-5.	3.5	214
27	Water transport in plants obeys Murray's law. <i>Nature</i> , 2003, 421, 939-942.	13.7	365
28	Evolution of Water Transport and Xylem Structure. <i>International Journal of Plant Sciences</i> , 2003, 164, S115-S127.	0.6	402
29	Vulnerability of Xylem Vessels to Cavitation in Sugar Maple. Scaling from Individual Vessels to Whole Branches. <i>Plant Physiology</i> , 2003, 131, 1775-1780.	2.3	79
30	The Evolution of Plant Functional Variation: Traits, Spectra, and Strategies. <i>International Journal of Plant Sciences</i> , 2003, 164, S143-S164.	0.6	1,057
31	Stem anatomy is congruent with molecular phylogenies placing <i>Hypericopsis persica</i> in <i>Frankenia</i> (Frankeniaceae): comments on vasicentric tracheids. <i>Taxon</i> , 2003, 52, 525-532.	0.4	14
32	Hydraulic efficiency and safety of leader shoots and twigs in Norway spruce growing at the alpine timberline. <i>Journal of Experimental Botany</i> , 2003, 54, 2563-2568.	2.4	52
33	Hydraulic architecture and the evolution of shoot allometry in contrasting climates. <i>American Journal of Botany</i> , 2003, 90, 1502-1512.	0.8	74
34	Cavitation, stomatal conductance, and leaf dieback in seedlings of two co-occurring Mediterranean shrubs during an intense drought. <i>Journal of Experimental Botany</i> , 2003, 54, 2015-2024.	2.4	206
35	Palaeo-adaptive Properties of the Xylem of <i>Metasequoia</i> : Mechanical/Hydraulic Compromises. <i>Annals of Botany</i> , 2003, 92, 79-88.	1.4	31
36	Does Canopy Position Affect Wood Specific Gravity in Temperate Forest Trees?. <i>Annals of Botany</i> , 2003, 91, 529-537.	1.4	38

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37	Incorporation of transfer resistance between tracheary elements into hydraulic resistance models for tapered conduits. <i>Tree Physiology</i> , 2003, 23, 1009-1019.	1.4	29
38	Effects of tension wood on specific conductivity and vulnerability to embolism of <i>Quercus ilex</i> seedlings grown at two atmospheric CO <sub>2</sub> concentrations. <i>Tree Physiology</i> , 2003, 23, 387-395.	1.4	50
39	Xylem Hydraulics and the Soil-Plant-Atmosphere Continuum: Opportunities and Unresolved Issues. <i>Agronomy Journal</i> , 2003, 95, 1362-1370.	0.9	130
40	Analysis of circular bordered pit function I. Angiosperm vessels with homogenous pit membranes. <i>American Journal of Botany</i> , 2004, 91, 369-385.	0.8	201
41	Analysis of circular bordered pit function II. Gymnosperm tracheids with torus-margo pit membranes. <i>American Journal of Botany</i> , 2004, 91, 386-400.	0.8	210
42	Evolution of xylem lignification and hydrogel transport regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17555-17558.	3.3	167
43	Photoinhibition and drought in Mediterranean woody saplings: scaling effects and interactions in sun and shade phenotypes. <i>Journal of Experimental Botany</i> , 2004, 56, 483-494.	2.4	149
44	Evolution of xylem physiology. , 2004, , 273-295.		166
45	Wood density and anatomy of water-limited eucalypts. <i>Tree Physiology</i> , 2004, 24, 1295-1302.	1.4	61
46	Xylem Wall Collapse in Water-Stressed Pine Needles. <i>Plant Physiology</i> , 2004, 134, 401-408.	2.3	203
47	Interspecific and Inter-site Variation in Wood Specific Gravity of Tropical Trees <sup>1</sup> . <i>Biotropica</i> , 2004, 36, 20.	0.8	6
48	Anatomy of the vessel network within and between tree rings of <i>Fraxinus lanuginosa</i> (Oleaceae). <i>American Journal of Botany</i> , 2004, 91, 779-788.	0.8	74
49	Clonal variation of indirect cambium reaction to within-growing season temperature changes in Douglas-fir. <i>Forestry</i> , 2004, 77, 257-268.	1.2	15
50	The criteria for biomass partitioning of the current shoot: water transport versus mechanical support. <i>American Journal of Botany</i> , 2004, 91, 1949-1959.	0.8	30
51	Gas in stems: abundance and potential consequences for tree biomechanics. <i>Tree Physiology</i> , 2004, 24, 1239-1250.	1.4	75
52	Diurnal depression of leaf hydraulic conductance in a tropical tree species. <i>Plant, Cell and Environment</i> , 2004, 27, 820-827.	2.8	179
53	Variation in wood density determines spatial patterns in Amazonian forest biomass. <i>Global Change Biology</i> , 2004, 10, 545-562.	4.2	633
54	Stomatal protection against hydraulic failure: a comparison of coexisting ferns and angiosperms. <i>New Phytologist</i> , 2004, 162, 663-670.	3.5	206

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55	Interspecific and Inter-site Variation in Wood Specific Gravity of Tropical Trees. <i>Biotropica</i> , 2004, 36, 20-32.	0.8	323
56	Murray's law and the hydraulic vs mechanical functioning of wood. <i>Functional Ecology</i> , 2004, 18, 931-938.	1.7	85
57	The hydraulic architecture of Pinaceae – a review. <i>Plant Ecology</i> , 2004, 171, 3-13.	0.7	172
58	Interrelationships between water use and growth traits in biomass-producing willows. <i>Trees - Structure and Function</i> , 2004, 18, 70-76.	0.9	49
59	Effects of a severe drought on <i>Quercus ilex</i> radial growth and xylem anatomy. <i>Trees - Structure and Function</i> , 2004, 18, 83-92.	0.9	205
60	Xylem embolism and stomatal regulation in two rubber clones ( <i>Hevea brasiliensis</i> Muell. Arg.). <i>Trees - Structure and Function</i> , 2004, 18, 109-114.	0.9	44
61	Differential sectoriality in long-distance transport in temperate tree species: evidence from dye flow, <sup>15</sup> N transport, and vessel element pitting. <i>Trees - Structure and Function</i> , 2004, 18, 501-509.	0.9	71
62	Patterns of tree dieback in Queensland, Australia: the importance of drought stress and the role of resistance to cavitation. <i>Oecologia</i> , 2004, 139, 190-198.	0.9	126
63	Photosynthetic pathway alters hydraulic structure and function in woody plants. <i>Oecologia</i> , 2004, 139, 214-223.	0.9	35
64	Leaf photosynthetic traits scale with hydraulic conductivity and wood density in Panamanian forest canopy trees. <i>Oecologia</i> , 2004, 140, 543-550.	0.9	458
65	El Niño droughts and their effects on tree species composition and diversity in tropical rain forests. <i>Oecologia</i> , 2004, 141, 114-120.	0.9	189
66	Rooting depth and plant water relations explain species distribution patterns within a sandplain landscape. <i>Functional Plant Biology</i> , 2004, 31, 423.	1.1	53
67	FUNCTIONAL STRATEGIES OF CHAPARRAL SHRUBS IN RELATION TO SEASONAL WATER DEFICIT AND DISTURBANCE. <i>Ecological Monographs</i> , 2004, 74, 25-44.	2.4	431
68	ADAPTIVE VARIATION IN THE VULNERABILITY OF WOODY PLANTS TO XYLEM CAVITATION. <i>Ecology</i> , 2004, 85, 2184-2199.	1.5	584
69	Functional convergence in hydraulic architecture and water relations of tropical savanna trees: from leaf to whole plant. <i>Tree Physiology</i> , 2004, 24, 891-899.	1.4	286
70	Sap flow rates and sapwood density are critical factors in within- and between-tree variation in CO <sub>2</sub> efflux from stems of mature <i>Dacrydium cupressinum</i> trees. <i>New Phytologist</i> , 2005, 167, 815-828.	3.5	83
71	Evaluation of a new centrifuge technique for rapid generation of xylem vulnerability curves. <i>Physiologia Plantarum</i> , 2005, 124, 410-418.	2.6	260
72	Drought, fire and tree survival in a Borneo rain forest, East Kalimantan, Indonesia. <i>Journal of Ecology</i> , 2005, 93, 191-201.	1.9	191

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73	Effects of stand age and tree species on canopy transpiration and average stomatal conductance of boreal forests. <i>Plant, Cell and Environment</i> , 2005, 28, 660-678.	2.8	245
74	Inter-vessel pitting and cavitation in woody Rosaceae and other vesselless plants: a basis for a safety versus efficiency trade-off in xylem transport. <i>Plant, Cell and Environment</i> , 2005, 28, 800-812.	2.8	505
75	Leaf hydraulic capacity in ferns, conifers and angiosperms: impacts on photosynthetic maxima. <i>New Phytologist</i> , 2005, 165, 839-846.	3.5	327
76	Alternative height strategies among 45 dicot rain forest species from tropical Queensland, Australia. <i>Journal of Ecology</i> , 2005, 93, 521-535.	1.9	154
77	Dry mass costs of deploying leaf area in relation to leaf size. <i>Functional Ecology</i> , 2005, 19, 88-97.	1.7	117
78	Hydraulic architecture of deciduous and evergreen dry rainforest tree species from north-eastern Australia. <i>Trees - Structure and Function</i> , 2005, 19, 305-311.	0.9	177
79	Efficiency Versus Safety Tradeoffs for Water Conduction in Angiosperm Vessels Versus Gymnosperm Tracheids. , 2005, , 333-353.		42
80	Fuel Properties and Characteristics of Saline Biomass. , 2005, , .		3
81	Structure-Function Relationships in Sapwood Water Transport and Storage. , 2005, , 307-331.		39
82	Stomatal Control and Water Transport in the Xylem. , 2005, , 69-89.		30
83	Do Xylem Fibers Affect Vessel Cavitation Resistance?. <i>Plant Physiology</i> , 2005, 139, 546-556.	2.3	351
84	Patterns in hydraulic architecture and their implications for transport efficiency. <i>Tree Physiology</i> , 2005, 25, 257-267.	1.4	151
85	Water Stress Deforms Tracheids Peripheral to the Leaf Vein of a Tropical Conifer. <i>Plant Physiology</i> , 2005, 137, 1139-1146.	2.3	157
86	Interspecific variation in xylem vulnerability to cavitation among tropical tree and shrub species. <i>Tree Physiology</i> , 2005, 25, 1553-1562.	1.4	67
87	Wood density in dense forest in central Amazonia, Brazil. <i>Forest Ecology and Management</i> , 2005, 208, 261-286.	1.4	113
88	Variations in the tree-ring structure of Norway spruce ( <i>Picea abies</i> ) under contrasting climates. <i>Dendrochronologia</i> , 2005, 23, 93-104.	1.0	30
89	NICHE EVOLUTION AND ADAPTIVE RADIATION: TESTING THE ORDER OF TRAIT DIVERGENCE. <i>Ecology</i> , 2006, 87, S50-S61.	1.5	241
90	Temperate forest trees and stands under severe drought: a review of ecophysiological responses, adaptation processes and long-term consequences. <i>Annals of Forest Science</i> , 2006, 63, 625-644.	0.8	1,430

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91	REGIONAL AND PHYLOGENETIC VARIATION OF WOOD DENSITY ACROSS 2456 NEOTROPICAL TREE SPECIES. , 2006, 16, 2356-2367.		632
92	Stay wet or else: three ways in which plants can adjust hydraulically to their environment. Journal of Experimental Botany, 2006, 57, 3963-3977.	2.4	188
93	Tragedy of the commons in plant water use. Water Resources Research, 2006, 42, .	1.7	38
94	A TRAIT-BASED TEST FOR HABITAT FILTERING: CONVEX HULL VOLUME. Ecology, 2006, 87, 1465-1471.	1.5	963
95	FROST DROUGHT IN CONIFERS AT THE ALPINE TIMBERLINE: XYLEM DYSFUNCTION AND ADAPTATIONS. Ecology, 2006, 87, 3175-3185.	1.5	130
96	Alternative Designs and the Evolution of Functional Diversity. American Naturalist, 2006, 167, 55-66.	1.0	205
97	Drought Tolerance of Selected Eragrostis Species Correlates with Leaf Tensile Properties. Annals of Botany, 2006, 97, 985-991.	1.4	82
98	RAIN FOREST FRAGMENTATION AND THE PROLIFERATION OF SUCCESSIONAL TREES. Ecology, 2006, 87, 469-482.	1.5	359
99	Land-plant ecology on the basis of functional traits. Trends in Ecology and Evolution, 2006, 21, 261-268.	4.2	808
101	Estimating species-specific wood density from the genus average in Indonesian trees. Journal of Tropical Ecology, 2006, 22, 481-482.	0.5	53
102	Xylem cavitation caused by drought and freezing stress in four co-occurring Juniperus species. Physiologia Plantarum, 2006, 127, 374-382.	2.6	89
103	Wood density and vessel traits as distinct correlates of ecological strategy in 51 California coast range angiosperms. New Phytologist, 2006, 170, 807-818.	3.5	374
104	Hydraulic efficiency and safety of branch xylem increases with height in Sequoia sempervirens (D.) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.8	95
105	Functional coordination between leaf gas exchange and vulnerability to xylem cavitation in temperate forest trees. Plant, Cell and Environment, 2006, 29, 571-583.	2.8	184
106	Long-term acclimatization of hydraulic properties, xylem conduit size, wall strength and cavitation resistance in Phaseolus vulgaris in response to different environmental effects. Plant, Cell and Environment, 2006, 29, 836-843.	2.8	37
107	Water relations of baobab trees (Adansonia spp. L.) during the rainy season: does stem water buffer daily water deficits?. Plant, Cell and Environment, 2006, 29, 1021-1032.	2.8	73
108	Adaptation to high salinity in poplar involves changes in xylem anatomy and auxin physiology. Plant, Cell and Environment, 2006, 29, 1519-1531.	2.8	137
109	Mechanical reinforcement of tracheids compromises the hydraulic efficiency of conifer xylem. Plant, Cell and Environment, 2006, 29, 1618-1628.	2.8	218

#	ARTICLE	IF	CITATIONS
110	Leaf litter flammability in some semi-arid Australian woodlands. <i>Functional Ecology</i> , 2006, 20, 745-752.	1.7	136
111	Nutrient availability constrains the hydraulic architecture and water relations of savannah trees. <i>Plant, Cell and Environment</i> , 2006, 29, 2153-2167.	2.8	137
112	Ecological relevance of minimum seasonal water potentials. <i>Physiologia Plantarum</i> , 2006, 127, 353-359.	2.6	86
113	Do Invasive Trees have a Hydraulic Advantage over Native Trees?. <i>Biological Invasions</i> , 2006, 8, 1331-1341.	1.2	35
114	A holistic tree seedling model for the investigation of functional trait diversity. <i>Ecological Modelling</i> , 2006, 193, 141-181.	1.2	31
116	Impact of Water Stress on the Sapwood Anatomy And Functional Morphology of <i>Calligonum Comosum</i> . <i>IAWA Journal</i> , 2006, 27, 299-312.	2.7	16
117	Alterations in Vessel Size in Twigs Of <i>Quercus Robur</i> and <i>Q. Petraea</i> Upon Defoliation and Consequences For Water Transport Under Drought. <i>IAWA Journal</i> , 2006, 27, 395-407.	2.7	9
118	Influence of soil texture on hydraulic properties and water relations of a dominant warm-desert phreatophyte. <i>Tree Physiology</i> , 2006, 26, 313-323.	1.4	70
119	The Leaf Size–Twig Size Spectrum of Temperate Woody Species Along an Altitudinal Gradient: An Invariant Allometric Scaling Relationship. <i>Annals of Botany</i> , 2006, 97, 97-107.	1.4	97
120	Why does phosphorus limitation increase wood density in <i>Eucalyptus grandis</i> seedlings?. <i>Tree Physiology</i> , 2006, 26, 35-42.	1.4	26
121	Size and function in conifer tracheids and angiosperm vessels. <i>American Journal of Botany</i> , 2006, 93, 1490-1500.	0.8	524
122	Scaling of angiosperm xylem structure with safety and efficiency. <i>Tree Physiology</i> , 2006, 26, 689-701.	1.4	575
123	Influence of a Salinity Gradient on the Vessel Characters of the Mangrove Species <i>Rhizophora mucronata</i> . <i>Annals of Botany</i> , 2006, 98, 1321-1330.	1.4	58
124	A synchronous increase in hydraulic conductive capacity and mechanical support in conifers with relatively uniform xylem structure. <i>American Journal of Botany</i> , 2006, 93, 179-187.	0.8	15
125	Hydraulic and anatomical properties of light bands in Norway spruce compression wood. <i>Tree Physiology</i> , 2006, 26, 17-23.	1.4	19
126	Analysis of Freeze-Thaw Embolism in Conifers. The Interaction between Cavitation Pressure and Tracheid Size. <i>Plant Physiology</i> , 2006, 140, 374-382.	2.3	162
129	Inter-tracheid pitting and the hydraulic efficiency of conifer wood: the role of tracheid allometry and cavitation protection. <i>American Journal of Botany</i> , 2006, 93, 1265-1273.	0.8	162
130	Structural determinants of leaf light-harvesting capacity and photosynthetic potentials. , 2006, , 385-419.		128



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131	Xylem vulnerability to cavitation varies among poplar and willow clones and correlates with yield. <i>Tree Physiology</i> , 2007, 27, 1761-1767.	1.4	106
132	Does growing on a slope affect tree xylem structure and water relations?. <i>Tree Physiology</i> , 2007, 27, 757-764.	1.4	30
133	Hydraulic and mechanical properties of young Norway spruce clones related to growth and wood structure. <i>Tree Physiology</i> , 2007, 27, 1165-1178.	1.4	53
134	Water Transport in Vesselless Angiosperms: Conducting Efficiency and Cavitation Safety. <i>International Journal of Plant Sciences</i> , 2007, 168, 1113-1126.	0.6	79
135	Changes in hydraulic conductivity, mechanical properties, and density reflecting the fall in strain along the lateral roots of two species of tropical trees. <i>Journal of Experimental Botany</i> , 2007, 58, 4095-4105.	2.4	13
136	Variation in drought resistance, drought acclimation and water conservation in four willow cultivars used for biomass production. <i>Tree Physiology</i> , 2007, 27, 1339-1346.	1.4	58
137	Variations In Diect Wood Anatomy: A Global Analysis Based on the Insidewood Database. <i>IAWA Journal</i> , 2007, 28, 229-258.	2.7	158
138	Vessel Redundancy: Modeling Safety In Numbers. <i>IAWA Journal</i> , 2007, 28, 373-388.	2.7	51
139	Changes in sapwood permeability and anatomy with tree age and height in the broad-leaved evergreen species <i>Eucalyptus regnans</i> . <i>Tree Physiology</i> , 2007, 27, 1113-1124.	1.4	25
140	Measurement of Cation Exchange Capacity (CEC) of Plant Cell Walls by X-Ray Microanalysis (EDX) in the Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2007, 13, 233-244.	0.2	35
141	Regulation of transpirational water loss in <i>Quercus suber</i> trees in a Mediterranean-type ecosystem. <i>Tree Physiology</i> , 2007, 27, 1179-1187.	1.4	32
142	CAVITATION RESISTANCE AMONG 26 CHAPARRAL SPECIES OF SOUTHERN CALIFORNIA. <i>Ecological Monographs</i> , 2007, 77, 99-115.	2.4	219
143	Temperature effects on wood anatomy, wood density, photosynthesis and biomass partitioning of <i>Eucalyptus grandis</i> seedlings. <i>Tree Physiology</i> , 2007, 27, 251-260.	1.4	62
144	Visual assessment of wilting as a measure of leaf water potential and seedling drought survival. <i>Journal of Tropical Ecology</i> , 2007, 23, 497-500.	0.5	46
145	Wood density in forests of Brazil's "arc of deforestation": Implications for biomass and flux of carbon from land-use change in Amazonia. <i>Forest Ecology and Management</i> , 2007, 248, 119-135.	1.4	108
146	Plastic and adaptive response to weather events: a pilot study in a maritime pine tree ring. <i>Canadian Journal of Forest Research</i> , 2007, 37, 2090-2095.	0.8	13
147	Ecological and evolutionary determinants of a key plant functional trait: wood density and its community-wide variation across latitude and elevation. <i>American Journal of Botany</i> , 2007, 94, 451-459.	0.8	419
148	Variation in wood density, wood water content, stem growth and mortality among twenty-seven tree species in a tropical rainforest on Borneo Island. <i>Austral Ecology</i> , 2007, 32, 191-201.	0.7	53

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149	Bordered pits in ray cells and axial parenchyma: the histology of conduction, storage, and strength in living wood cells. <i>Botanical Journal of the Linnean Society</i> , 2007, 153, 157-168.	0.8	40
150	A trait-based approach to community assembly: partitioning of species trait values into within- and among-community components. <i>Ecology Letters</i> , 2007, 10, 135-145.	3.0	638
151	Sanio's laws revisited. Size-dependent changes in the xylem architecture of trees. <i>Ecology Letters</i> , 2007, 10, 1084-1093.	3.0	92
152	Xylem density, biomechanics and anatomical traits correlate with water stress in 17 evergreen shrub species of the Mediterranean-type climate region of South Africa. <i>Journal of Ecology</i> , 2007, 95, 171-183.	1.9	176
153	The likely impact of elevated [CO <sub>2</sub> ], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. <i>New Phytologist</i> , 2007, 173, 463-480.	3.5	579
154	Relationships among xylem transport, biomechanics and storage in stems and roots of nine Rhamnaceae species of the California chaparral. <i>New Phytologist</i> , 2007, 174, 787-798.	3.5	297
155	Evolution of hydraulic traits in closely related species pairs from mediterranean and nonmediterranean environments of North America. <i>New Phytologist</i> , 2007, 176, 718-726.	3.5	70
156	Tree morphology in seasonally dry montane forest in Argentina: Relationships with shade tolerance and nutrient shortage. <i>Journal of Vegetation Science</i> , 2007, 18, 313-326.	1.1	9
157	THE CAUSES OF VARIATION IN TREE SEEDLING TRAITS: THE ROLES OF ENVIRONMENTAL SELECTION VERSUS CHANCE. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 455-469.	1.1	50
158	Woods from the Miocene Bakate Formation, Ethiopia. <i>Review of Palaeobotany and Palynology</i> , 2007, 146, 193-207.	0.8	22
159	Plasticity in hydraulic architecture of Scots pine across Eurasia. <i>Oecologia</i> , 2007, 153, 245-259.	0.9	98
160	Coordination between leaf and stem traits related to leaf carbon gain and hydraulics across 32 drought-tolerant angiosperms. <i>Oecologia</i> , 2008, 156, 193-202.	0.9	97
161	Coordination of leaf and stem water transport properties in tropical forest trees. <i>Oecologia</i> , 2008, 156, 31-41.	0.9	150
162	Using multiple trait associations to define hydraulic functional types in plant communities of south-western Australia. <i>Oecologia</i> , 2008, 158, 385-397.	0.9	68
163	Tree diversity, composition, forest structure and aboveground biomass dynamics after single and repeated fire in a Bornean rain forest. <i>Oecologia</i> , 2008, 158, 579-588.	0.9	63
164	Wood anatomy and hydraulic architecture of stems and twigs of some Mediterranean trees and shrubs along a mesic-xeric gradient. <i>Trees - Structure and Function</i> , 2008, 22, 643-655.	0.9	83
165	Stem and leaf hydraulics of congeneric tree species from adjacent tropical savanna and forest ecosystems. <i>Oecologia</i> , 2008, 155, 405-415.	0.9	131
166	Genetic control of the tree-ring response of Douglas-fir ( <i>Pseudotsuga menziesii</i> (Mirb.) Franco) to the 2003 drought and heat-wave in France. <i>Annals of Forest Science</i> , 2008, 65, 102-102.	0.8	24

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167	Seedling Traits Determine Drought Tolerance of Tropical Tree Species. <i>Biotropica</i> , 2008, 40, 321-331.	0.8	282
168	Growth and Wood/Bark Properties of <i>Abies faxoniana</i> Seedlings as Affected by Elevated CO <sub>2</sub> . <i>Journal of Integrative Plant Biology</i> , 2008, 50, 265-270.	4.1	3
169	Evaluation of centrifugal methods for measuring xylem cavitation in conifers, diffuse and ring-porous angiosperms. <i>New Phytologist</i> , 2008, 177, 558-568.	3.5	87
170	Tapering of xylem conduits and hydraulic limitations in sycamore ( <i>Acer pseudoplatanus</i> ) trees. <i>New Phytologist</i> , 2008, 177, 653-664.	3.5	81
171	Height-related trends in leaf xylem anatomy and shoot hydraulic characteristics in a tall conifer: safety versus efficiency in water transport. <i>New Phytologist</i> , 2008, 180, 90-99.	3.5	63
172	Comparative community physiology: nonconvergence in water relations among three semi-arid shrub communities. <i>New Phytologist</i> , 2008, 180, 100-113.	3.5	91
173	Safety and efficiency conflicts in hydraulic architecture: scaling from tissues to trees. <i>Plant, Cell and Environment</i> , 2008, 31, 632-645.	2.8	383
174	Photosynthetic pathway influences xylem structure and function in <i>Flaveria</i> (Asteraceae). <i>Plant, Cell and Environment</i> , 2008, 31, 1363-1376.	2.8	36
175	The hydraulic architecture of <i>Juniperus communis</i> L. ssp. <i>communis</i> : shrubs and trees compared. <i>Plant, Cell and Environment</i> , 2008, 31, 1545-1556.	2.8	35
176	Drought induced xylem embolism in four riparian trees from the Western Cape Province: Insights and implications for planning and evaluation of restoration. <i>South African Journal of Botany</i> , 2008, 74, 508-516.	1.2	15
177	Boreal Forest and Climate Change. , 2008, , .		36
178	Is xylem cavitation resistance a relevant criterion for screening drought resistance among <i>Prunus</i> species?. <i>Journal of Plant Physiology</i> , 2008, 165, 976-982.	1.6	111
179	What is hot in tree rings? The wood density of surviving Douglas-firs to the 2003 drought and heat wave. <i>Forest Ecology and Management</i> , 2008, 256, 837-843.	1.4	81
180	Modeling fluid flow in <i>Medullosa</i> , an anatomically unusual Carboniferous seed plant. <i>Paleobiology</i> , 2008, 34, 472-493.	1.3	50
181	TRANSPIRATION AND HYDRAULIC STRATEGIES IN A PINE JUNIPER WOODLAND. <i>Ecological Applications</i> , 2008, 18, 911-927.	1.8	119
182	Interrelations between hydraulic and mechanical stress adaptations in woody plants. <i>Plant Signaling and Behavior</i> , 2008, 3, 463-465.	1.2	6
183	Constraints on physiological function associated with branch architecture and wood density in tropical forest trees. <i>Tree Physiology</i> , 2008, 28, 1609-1617.	1.4	99
184	Hydraulic traits are influenced by phylogenetic history in the drought-resistant, invasive genus <i>Juniperus</i> (Cupressaceae). <i>American Journal of Botany</i> , 2008, 95, 299-314.	0.8	131

#	ARTICLE	IF	CITATIONS
185	Assessing Evidence for a Pervasive Alteration in Tropical Tree Communities. <i>PLoS Biology</i> , 2008, 6, e45.	2.6	187
186	Tradeoffs between hydraulic and mechanical stress responses of mature Norway spruce trunk wood. <i>Tree Physiology</i> , 2008, 28, 1179-1188.	1.4	45
187	Gender-specific patterns of aboveground allocation, canopy conductance and water use in a dominant riparian tree species: <i>Acer negundo</i> . <i>Tree Physiology</i> , 2008, 28, 1383-1394.	1.4	25
188	The relationship between stem and branch wood specific gravity and the ability of each measure to predict leaf area. <i>American Journal of Botany</i> , 2008, 95, 516-519.	0.8	108
189	The Relationships of Wood-, Gas- and Water Fractions of Tree Stems to Performance and Life History Variation in Tropical Trees. <i>Annals of Botany</i> , 2008, 102, 367-375.	1.4	69
190	Bole girdling affects metabolic properties and root, trunk and branch hydraulics of young ponderosa pine trees. <i>Tree Physiology</i> , 2008, 28, 1493-1504.	1.4	50
191	Hydraulic integration and shrub growth form linked across continental aridity gradients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11248-11253.	3.3	146
192	Estimation of biomass and carbon stocks: the case of the Atlantic Forest. <i>Biota Neotropica</i> , 2008, 8, 21-29.	1.0	82
194	La gestion de la variabilité génétique dans le programme d'amélioration du Pin maritime ( <i>Pinus pinaster</i> ). <i>Tj ETQg0 0 0 rgBT</i>	0.0	2
195	Improved sapflow methodology reveals considerable night-time ozone uptake by Mediterranean species. <i>Biogeosciences</i> , 2009, 6, 3151-3162.	1.3	10
196	Shrinkage processes in standard-size Norway spruce wood specimens with different vulnerability to cavitation. <i>Tree Physiology</i> , 2009, 29, 1419-1431.	1.4	46
197	Coordination of foliar and wood anatomical traits contributes to tropical tree distributions and productivity along the Malay-Thai Peninsula. <i>American Journal of Botany</i> , 2009, 96, 2214-2223.	0.8	28
198	Wood anatomy and wood density in shrubs: Responses to varying aridity along transcontinental transects. <i>American Journal of Botany</i> , 2009, 96, 1388-1398.	0.8	169
199	Hydraulic Failure Defines the Recovery and Point of Death in Water-Stressed Conifers. <i>Plant Physiology</i> , 2009, 149, 575-584.	2.3	604
200	Hydraulic properties of naturally regenerated beech saplings respond to canopy opening. <i>Tree Physiology</i> , 2009, 29, 1395-1405.	1.4	15
201	Morphological variation of intervessel pit membranes and implications to xylem function in angiosperms. <i>American Journal of Botany</i> , 2009, 96, 409-419.	0.8	258
202	Wood density and its radial variation in six canopy tree species differing in shade-tolerance in western Thailand. <i>Annals of Botany</i> , 2009, 104, 297-306.	1.4	72
203	Safety Factors for Xylem Failure by Implosion and Air-Seeding Within Roots, Trunks and Branches of Young and Old Conifer Trees. <i>IAWA Journal</i> , 2009, 30, 101-120.	2.7	89

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204	Water stress tolerance of shrubs in Mediterranean-type climate regions: Convergence of fynbos and succulent karoo communities with California shrub communities. <i>American Journal of Botany</i> , 2009, 96, 1445-1453.	0.8	38
205	Woodiness within the Spermaceae "Knoxieae alliance (Rubiaceae): retention of the basal woody condition in Rubiaceae or recent innovation?. <i>Annals of Botany</i> , 2009, 103, 1049-1064.	1.4	27
206	Soil salinity and drought alter wood density and vulnerability to xylem cavitation of baldcypress ( <i>Taxodium distichum</i> (L.) Rich.) seedlings. <i>Environmental and Experimental Botany</i> , 2009, 67, 164-171.	2.0	51
207	Independence of stem and leaf hydraulic traits in six Euphorbiaceae tree species with contrasting leaf phenology. <i>Planta</i> , 2009, 230, 459-468.	1.6	68
208	Soil water availability and rooting depth as determinants of hydraulic architecture of Patagonian woody species. <i>Oecologia</i> , 2009, 160, 631-641.	0.9	94
209	Convergence of tree water use within an arid-zone woodland. <i>Oecologia</i> , 2009, 160, 643-655.	0.9	93
210	Functional anatomy of five endangered tropical timber wood species of the family Dipterocarpaceae. <i>Trees - Structure and Function</i> , 2009, 23, 521-529.	0.9	23
211	Hydraulic properties and photosynthetic rates in co-occurring lianas and trees in a seasonal tropical rainforest in southwestern China. <i>Plant Ecology</i> , 2009, 204, 295-304.	0.7	95
212	Inter-specific variation of photosynthetic and xylem hydraulic traits in the deciduous and evergreen Euphorbiaceae tree species from a seasonally tropical forest in southwestern China. <i>Ecological Research</i> , 2009, 24, 65-73.	0.7	51
213	Leaf xylem embolism, detected acoustically and by cryo-SEM, corresponds to decreases in leaf hydraulic conductance in four evergreen species. <i>Plant, Cell and Environment</i> , 2009, 32, 828-836.	2.8	89
214	Xylem function of arid-land shrubs from California, USA: an ecological and evolutionary analysis. <i>Plant, Cell and Environment</i> , 2009, 32, 1324-1333.	2.8	75
215	Trees approach gravitational limits to height in tall lowland forests of Malaysia. <i>Functional Ecology</i> , 2009, 23, 284-291.	1.7	65
216	Stem hydraulics mediates leaf water status, carbon gain, nutrient use efficiencies and plant growth rates across dipterocarp species. <i>Functional Ecology</i> , 2009, 23, 658-667.	1.7	116
217	Xylem hydraulic safety margins in woody plants: coordination of stomatal control of xylem tension with hydraulic capacitance. <i>Functional Ecology</i> , 2009, 23, 922-930.	1.7	485
218	Functional changes in the control of carbon fluxes after 3 years of increased drought in a Mediterranean evergreen forest?. <i>Global Change Biology</i> , 2010, 16, 2461-2475.	4.2	42
219	Seedling root morphology and biomass allocation of 62 tropical tree species in relation to drought- and shade-tolerance. <i>Journal of Ecology</i> , 2009, 97, 311-325.	1.9	372
220	Towards a worldwide wood economics spectrum. <i>Ecology Letters</i> , 2009, 12, 351-366.	3.0	2,219
221	Above-ground forest biomass is not consistently related to wood density in tropical forests. <i>Global Ecology and Biogeography</i> , 2009, 18, 617-625.	2.7	46

#	ARTICLE	IF	CITATIONS
222	Embolism resistance of three boreal conifer species varies with pit structure. <i>New Phytologist</i> , 2009, 182, 675-686.	3.5	115
223	Murray's law, the "Yarrum" optimum, and the hydraulic architecture of compound leaves. <i>New Phytologist</i> , 2009, 184, 234-244.	3.5	37
224	Hydraulic adjustment of Scots pine across Europe. <i>New Phytologist</i> , 2009, 184, 353-364.	3.5	337
225	Variation of wood density and hydraulic properties of Douglas-fir ( <i>Pseudotsuga menziesii</i> (Mirb.) Tj ETQq1 1 0.784314 rgBT /Overloc 11 257, 182-189.	1.4	53
226	Ring density record of phenotypic plasticity and adaptation to drought in Douglas-fir. <i>Forest Ecology and Management</i> , 2009, 258, 860-867.	1.4	14
227	Deadwood in New Zealand's indigenous forests. <i>Forest Ecology and Management</i> , 2009, 258, 2456-2466.	1.4	28
228	Xylem hydraulic physiology: The functional backbone of terrestrial plant productivity. <i>Plant Science</i> , 2009, 177, 245-251.	1.7	234
229	Community assembly and shifts in plant trait distributions across an environmental gradient in coastal California. <i>Ecological Monographs</i> , 2009, 79, 109-126.	2.4	940
230	Functional Surfaces in Biology. , 2009, , .		10
231	Soil carbon dynamics. <i>Geophysical Monograph Series</i> , 2009, , 451-462.	0.1	9
232	Drought Sensitivity of the Amazon Rainforest. <i>Science</i> , 2009, 323, 1344-1347.	6.0	1,443
233	Topographic and ecologic controls on root reinforcement. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	145
234	Intraspecific differences in drought tolerance and acclimation in hydraulics of <i>Ligustrum vulgare</i> and <i>Viburnum lantana</i> . <i>Tree Physiology</i> , 2009, 29, 765-775.	1.4	76
235	Ecophysiology of forest and savanna vegetation. <i>Geophysical Monograph Series</i> , 2009, , 463-484.	0.1	25
236	Intra- and interspecific variation in wood density and fine-scale spatial distribution of stand-level wood density in a northern Thai tropical montane forest. <i>Journal of Tropical Ecology</i> , 2009, 25, 359-370.	0.5	29
237	Effect of Watering Regime on Disease Development in <i>Pinus sylvestris</i> Seedlings Inoculated with <i>Bursaphelenchus vallesianus</i> and <i>B. mucronatus</i> . <i>Plant Disease</i> , 2010, 94, 1055-1061.	0.7	14
238	Hydraulic plasticity and limitations of alpine <i>Rhododendron</i> species. <i>Oecologia</i> , 2010, 164, 321-330.	0.9	18
239	Photosynthetic, hydraulic and biomechanical responses of <i>Juglans californica</i> shoots to wildfire. <i>Oecologia</i> , 2010, 164, 331-338.	0.9	21

#	ARTICLE	IF	CITATIONS
240	The blind men and the elephant: the impact of context and scale in evaluating conflicts between plant hydraulic safety and efficiency. <i>Oecologia</i> , 2010, 164, 287-296.	0.9	137
241	Adaptive anatomy of <i>Pinus halepensis</i> trees from different Mediterranean environments in Spain. <i>Trees - Structure and Function</i> , 2010, 24, 19-30.	0.9	39
242	Variation in wood anatomical traits of <i>Pinus sylvestris</i> L. between Spanish regions of provenance. <i>Trees - Structure and Function</i> , 2010, 24, 1017-1028.	0.9	51
243	High leaf tissue density grassland species consistently more abundant across topographic and disturbance contrasts in a North American tallgrass prairie. <i>Plant and Soil</i> , 2010, 337, 193-203.	1.8	13
244	Ectomycorrhiza and hydrogel protect hybrid poplar from water deficit and unravel plastic responses of xylem anatomy. <i>Environmental and Experimental Botany</i> , 2010, 69, 189-197.	2.0	59
245	Restoration of rocky slopes based on planted gabions and use of drought-preconditioned woody species. <i>Ecological Engineering</i> , 2010, 36, 421-426.	1.6	32
246	Studying global change through investigation of the plastic responses of xylem anatomy in tree rings. <i>New Phytologist</i> , 2010, 185, 42-53.	3.5	475
247	The relationship between stem biomechanics and wood density is modified by rainfall in 32 Australian woody plant species. <i>New Phytologist</i> , 2010, 185, 493-501.	3.5	66
248	The importance of wood traits and hydraulic conductance for the performance and life history strategies of 42 rainforest tree species. <i>New Phytologist</i> , 2010, 185, 481-492.	3.5	478
249	Moving water well: comparing hydraulic efficiency in twigs and trunks of coniferous, ring-porous, and diffuse-porous saplings from temperate and tropical forests. <i>New Phytologist</i> , 2010, 186, 439-450.	3.5	143
250	The challenge of tree height in <i>Eucalyptus regnans</i> : when xylem tapering overcomes hydraulic resistance. <i>New Phytologist</i> , 2010, 187, 1146-1153.	3.5	79
251	Effect of 7 yr of experimental drought on vegetation dynamics and biomass storage of an eastern Amazonian rainforest. <i>New Phytologist</i> , 2010, 187, 579-591.	3.5	293
252	Drought-mortality relationships for tropical forests. <i>New Phytologist</i> , 2010, 187, 631-646.	3.5	487
253	Xylem function and growth rate interact to determine recovery rates after exposure to extreme water deficit. <i>New Phytologist</i> , 2010, 188, 533-542.	3.5	284
254	Leaf hydraulic vulnerability is related to conduit dimensions and drought resistance across a diverse range of woody angiosperms. <i>New Phytologist</i> , 2010, 188, 1113-1123.	3.5	246
255	The relationship between wood density and mortality in a global tropical forest data set. <i>New Phytologist</i> , 2010, 188, 1124-1136.	3.5	164
256	The evolution of water transport in plants: an integrated approach. <i>Geobiology</i> , 2010, 8, 112-139.	1.1	124
257	Phenology, Lignotubers, and Water Relations of <i>Cochlospermum vitifolium</i> , a Pioneer Tropical Dry Forest Tree in Costa Rica. <i>Biotropica</i> , 2010, 42, 104-111.	0.8	20

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258	Age-Dependent Radial Increases in Wood Specific Gravity of Tropical Pioneers in Costa Rica. <i>Biotropica</i> , 2010, 42, 590-597.	0.8	36
259	Hydraulic acclimation to shading in boreal conifers of varying shade tolerance. <i>Plant, Cell and Environment</i> , 2010, 33, 382-393.	2.8	52
260	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.	2.8	75
261	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.	2.8	216
262	Interspecific relationships among growth, mortality and xylem traits of woody species from New Zealand. <i>Functional Ecology</i> , 2010, 24, 253-262.	1.7	99
263	Rethinking the value of high wood density. <i>Functional Ecology</i> , 2010, 24, 701-705.	1.7	151
264	A link between plant traits and abundance: evidence from coastal California woody plants. <i>Journal of Ecology</i> , 2010, 98, 814-821.	1.9	129
265	Interspecific variation in functional traits, not climatic differences among species ranges, determines demographic rates across 44 temperate and Mediterranean tree species. <i>Journal of Ecology</i> , 2010, 98, 1462-1475.	1.9	92
266	<i>Amphistemon</i> and <i>Thamnoldenlandia</i> , two new genera of Rubiaceae (Spermacoceae) endemic to Madagascar. <i>Botanical Journal of the Linnean Society</i> , 0, 163, 447-472.	0.8	15
267	Environmental correlates of tree biomass, basal area, wood specific gravity and stem density gradients in Borneo's tropical forests. <i>Global Ecology and Biogeography</i> , 2010, 19, 50-60.	2.7	269
268	Poplar vulnerability to xylem cavitation acclimates to drier soil conditions. <i>Physiologia Plantarum</i> , 2010, 139, 280-8.	2.6	90
269	What happens when stems are embolized in a centrifuge? Testing the cavitron theory. <i>Physiologia Plantarum</i> , 2010, 140, 311-320.	2.6	17
270	The effect of artificially induced drought on radial increment and wood properties of Norway spruce. <i>Tree Physiology</i> , 2010, 30, 103-115.	1.4	71
271	Variable conductivity and embolism in roots and branches of four contrasting tree species and their impacts on whole-plant hydraulic performance under future atmospheric CO <sub>2</sub> concentration. <i>Tree Physiology</i> , 2010, 30, 1001-1015.	1.4	91
272	A physiological model of softwood cambial growth. <i>Tree Physiology</i> , 2010, 30, 1235-1252.	1.4	96
273	Effects of drought and changes in vapour pressure deficit on water relations of <i>Populus deltoides</i> growing in ambient and elevated CO <sub>2</sub> . <i>Tree Physiology</i> , 2010, 30, 866-875.	1.4	37
274	Change in hydraulic traits of Mediterranean <i>Quercus ilex</i> subjected to long-term throughfall exclusion. <i>Tree Physiology</i> , 2010, 30, 1026-1036.	1.4	82
275	Differences in the response sensitivity of stomatal index to atmospheric CO <sub>2</sub> among four genera of Cupressaceae conifers. <i>Annals of Botany</i> , 2010, 105, 411-418.	1.4	61



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276	Influence of nitrogen fertilization on xylem traits and aquaporin expression in stems of hybrid poplar. <i>Tree Physiology</i> , 2010, 30, 1016-1025.	1.4	145
277	Hydraulic architecture and tracheid allometry in mature <i>Pinus palustris</i> and <i>Pinus elliottii</i> trees. <i>Tree Physiology</i> , 2010, 30, 361-375.	1.4	19
278	Ecological Wood Anatomy of <i>Miconia Sellowiana</i> (Melastomataceae) in three vegetation types of paran state, Brazil. <i>IAWA Journal</i> , 2010, 31, 179-190.	2.7	16
279	Tyloses and Phenolic Deposits in Xylem Vessels Impede Water Transport in Low-Lignin Transgenic Poplars: A Study by Cryo-Fluorescence Microscopy . <i>Plant Physiology</i> , 2010, 154, 887-898.	2.3	100
280	Drought-triggered false ring formation in a Mediterranean shrub. <i>Botany</i> , 2010, 88, 545-555.	0.5	34
281	Phenology and wood density of plants growing in the semi-arid region of northeastern Brazil. <i>Journal of Arid Environments</i> , 2010, 74, 1363-1373.	1.2	90
282	Angiosperm wood structure: Global patterns in vessel anatomy and their relation to wood density and potential conductivity. <i>American Journal of Botany</i> , 2010, 97, 207-215.	0.8	355
283	Trees: A Remarkable Biochemical Bounty. , 2010, , 1173-1296.		16
284	Early vessel evolution and the diversification of wood function: Insights from Malagasy Canellales. <i>American Journal of Botany</i> , 2010, 97, 80-93.	0.8	19
285	Genetics and Genomics of <i>Populus</i> . , 2010, , .		28
286	A physiologically explicit morphospace for tracheid-based water transport in modern and extinct seed plants. <i>Paleobiology</i> , 2010, 36, 335-355.	1.3	58
287	Water availability and genetic effects on wood properties of loblolly pine ( <i>Pinus taeda</i> ). <i>Canadian Journal of Forest Research</i> , 2010, 40, 2265-2277.	0.8	17
288	Wood traits in parental and hybrid species of <i>Sorbus</i> . <i>Botany</i> , 2011, 89, 559-572.	0.5	5
289	Mechanical Integration of Plant Cells and Plants. <i>Signaling and Communication in Plants</i> , 2011, , .	0.5	5
290	Assessment of standing wood and fiber quality using ground and airborne laser scanning: A review. <i>Forest Ecology and Management</i> , 2011, 261, 1467-1478.	1.4	95
291	Xylem efficiency vs. safety: Acclimation to drought of seedling root anatomy for six Patagonian shrub species. <i>Journal of Arid Environments</i> , 2011, 75, 397-402.	1.2	10
292	Radial Variation in Wood Structure and Function in Woody Plants, and Hypotheses for Its Occurrence. <i>Tree Physiology</i> , 2011, , 121-164.	0.9	118
293	Wood anatomy and climate change. , 2011, , 141-155.		15

#	ARTICLE	IF	CITATIONS
294	Physiological drought tolerance and the structuring of tallgrass prairie assemblages. <i>Ecosphere</i> , 2011, 2, art48.	1.0	56
295	Traits associated with drought survival in three Australian tropical rainforest seedlings. <i>Australian Journal of Botany</i> , 2011, 59, 621.	0.3	10
296	Spatial patterns of wood traits in China are controlled by phylogeny and the environment. <i>Global Ecology and Biogeography</i> , 2011, 20, 241-250.	2.7	73
297	Linking irradiance-induced changes in pit membrane ultrastructure with xylem vulnerability to cavitation. <i>Plant, Cell and Environment</i> , 2011, 34, 501-513.	2.8	57
298	Transgenic poplars with reduced lignin show impaired xylem conductivity, growth efficiency and survival. <i>Plant, Cell and Environment</i> , 2011, 34, 655-668.	2.8	121
299	Genetic determinism of anatomical and hydraulic traits within an apple progeny. <i>Plant, Cell and Environment</i> , 2011, 34, 1276-1290.	2.8	38
300	Morphological and physiological differentiation of seedlings between dry and wet habitats in a tropical dry forest. <i>Plant, Cell and Environment</i> , 2011, 34, 1536-1547.	2.8	44
301	A carbon cost-gain model explains the observed patterns of xylem safety and efficiency. <i>Plant, Cell and Environment</i> , 2011, 34, 1819-1834.	2.8	40
302	Hydraulic failure and tree dieback are associated with high wood density in a temperate forest under extreme drought. <i>Global Change Biology</i> , 2011, 17, 2731-2742.	4.2	236
303	Scaling from leaf traits to fire behaviour: community composition predicts fire severity in a temperate forest. <i>Journal of Ecology</i> , 2011, 99, 970-980.	1.9	97
304	Environmental filtering of dense-wooded species controls above-ground biomass stored in African moist forests. <i>Journal of Ecology</i> , 2011, 99, 981-990.	1.9	72
305	Climatic constraints on trait-based forest assembly. <i>Journal of Ecology</i> , 2011, 99, 1489-1499.	1.9	103
306	Hydraulics of <i>Asteroxylon mackei</i> , an early Devonian vascular plant, and the early evolution of water transport tissue in terrestrial plants. <i>Geobiology</i> , 2011, 9, 121-130.	1.1	23
307	Intraspecific trait variation and covariation in a widespread tree species ( <i>Nothofagus pumilio</i> ) in southern Chile. <i>New Phytologist</i> , 2011, 189, 259-271.	3.5	147
308	Testing hypotheses that link wood anatomy to cavitation resistance and hydraulic conductivity in the genus <i>Acer</i> . <i>New Phytologist</i> , 2011, 190, 709-723.	3.5	393
309	Hydraulics and life history of tropical dry forest tree species: coordination of species' drought and shade tolerance. <i>New Phytologist</i> , 2011, 191, 480-495.	3.5	256
310	Structure-function constraints of tracheid-based xylem: a comparison of conifers and ferns. <i>New Phytologist</i> , 2011, 192, 449-461.	3.5	97
311	Cycads show no stomatal-density and index response to elevated carbon dioxide and subambient oxygen. <i>Australian Journal of Botany</i> , 2011, 59, 630.	0.3	21

#	ARTICLE	IF	CITATIONS
312	A similarity law in botanic. The case of hydraulic conductivity of trees. <i>European Physical Journal D</i> , 2011, 62, 19-23.	0.6	5
313	Responses in leaf functional traits and resource allocation of a dominant alpine sedge ( <i>Kobresia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 349, 377-387.	1.8	41
314	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, 271-274.	0.9	11
315	The stomatal CO <sub>2</sub> proxy does not saturate at high atmospheric CO <sub>2</sub> concentrations: evidence from stomatal index responses of Araucariaceae conifers. <i>Oecologia</i> , 2011, 167, 11-19.	0.9	32
316	Comparative hydraulic architecture of tropical tree species representing a range of successional stages and wood density. <i>Oecologia</i> , 2011, 167, 27-37.	0.9	84
317	Hydraulic efficiency compromises compression strength perpendicular to the grain in Norway spruce trunkwood. <i>Trees - Structure and Function</i> , 2011, 25, 289-299.	0.9	12
318	Do tree-ring traits reflect different water deficit responses in young poplar clones ( <i>Populus</i> — <i>Acanadensis</i> MÄrtnch "1-214"™ and <i>P. deltoides</i> "Dvina"™)? <i>Trees - Structure and Function</i> , 2011, 25, 975-985.	0.9	24
319	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.	0.9	102
320	A micropump based on water potential difference in plants. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 717-724.	1.0	20
321	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.	0.8	48
322	Ecosystem effects of groundwater depth in Owens Valley, California. <i>Ecohydrology</i> , 2011, 4, 458-468.	1.1	18
323	Genetic effects on transpiration, canopy conductance, stomatal sensitivity to vapour pressure deficit, and cavitation resistance in loblolly pine. <i>Ecohydrology</i> , 2011, 4, 168-182.	1.1	19
324	Contrasting hydraulic regulation in closely related forage grasses: implications for plant water use. <i>Functional Plant Biology</i> , 2011, 38, 594.	1.1	20
325	Within-individual variation of trunk and branch xylem density in tropical trees. <i>American Journal of Botany</i> , 2011, 98, 140-149.	0.8	33
326	More than just a vulnerable pipeline: xylem physiology in the light of ion-mediated regulation of plant water transport. <i>Journal of Experimental Botany</i> , 2011, 62, 4701-4718.	2.4	138
327	An annual pattern of native embolism in upper branches of four tall conifer species. <i>American Journal of Botany</i> , 2011, 98, 1007-1015.	0.8	55
328	Integration of vessel traits, wood density, and height in angiosperm shrubs and trees. <i>American Journal of Botany</i> , 2011, 98, 915-922.	0.8	59
329	The hydraulic conductivity of the xylem in conifer needles ( <i>Picea abies</i> and <i>Pinus mugo</i> ). <i>Journal of Experimental Botany</i> , 2011, 62, 4383-4390.	2.4	14

#	ARTICLE	IF	CITATIONS
330	Drought alters timing, quantity, and quality of wood formation in Scots pine. <i>Journal of Experimental Botany</i> , 2011, 62, 2763-2771.	2.4	199
331	The potential of using xylarium wood samples for wood density calculations: a comparison of approaches for volume measurement. <i>IForest</i> , 2011, 4, 150-159.	0.5	13
332	Xylem function and climate adaptation in <i>Pinus</i> . <i>American Journal of Botany</i> , 2011, 98, 1437-1445.	0.8	16
333	Diurnal patterns of water use in <i>Eucalyptus victrix</i> indicate pronounced desiccation-rehydration cycles despite unlimited water supply. <i>Tree Physiology</i> , 2011, 31, 1041-1051.	1.4	50
334	Wood anatomy of the Mascarene Dombeyoideae: Systematic and ecological implications. <i>IAWA Journal</i> , 2011, 32, 493-519.	2.7	9
335	Contrasting drought survival strategies of sympatric willows (genus: <i>Salix</i> ): consequences for coexistence and habitat specialization. <i>Tree Physiology</i> , 2011, 31, 604-614.	1.4	38
336	Wood properties and trunk allometry of co-occurring rainforest canopy trees in a cyclone-prone environment. <i>American Journal of Botany</i> , 2011, 98, 1762-1772.	0.8	22
337	Decline of Leaf Hydraulic Conductance with Dehydration: Relationship to Leaf Size and Venation Architecture. <i>Plant Physiology</i> , 2011, 156, 832-843.	2.3	318
338	Differences in hydraulic architecture between mesic and xeric <i>Pinus pinaster</i> populations at the seedling stage. <i>Tree Physiology</i> , 2012, 32, 1442-1457.	1.4	47
339	Linking stomatal sensitivity and whole-tree hydraulic architecture. <i>Tree Physiology</i> , 2012, 32, 369-372.	1.4	15
340	Hydraulic efficiency and safety of vascular and non-vascular components in <i>Pinus pinaster</i> leaves. <i>Tree Physiology</i> , 2012, 32, 1161-1170.	1.4	39
341	Duration and extension of anatomical changes in wood structure after cambial injury. <i>Journal of Experimental Botany</i> , 2012, 63, 3271-3277.	2.4	92
342	Phenotypic and developmental plasticity of xylem in hybrid poplar saplings subjected to experimental drought, nitrogen fertilization, and shading. <i>Journal of Experimental Botany</i> , 2012, 63, 6481-6491.	2.4	101
343	Effects of drought acclimation on the mechanical properties of <i>Ochroma pyramidale</i> , <i>Betula pendula</i> and <i>Acacia karroo</i> tree seedling stems. <i>Forestry</i> , 2012, 85, 215-223.	1.2	13
344	Wood anatomical variables in tropical trees and their relation to site conditions and individual tree morphology. <i>IAWA Journal</i> , 2012, 33, 119-140.	2.7	74
345	Xylem Anatomy and Cell Wall Ultrastructure of <i>Nicotiana Tabacum</i> After Lignin Genetic Modification Through Transcriptional Activator EgMYB2. <i>IAWA Journal</i> , 2012, 33, 269-286.	2.7	4
346	Habitat specialization and the role of trait lability in structuring diverse willow (genus <i>Salix</i> ) communities. <i>Ecology</i> , 2012, 93, S138.	1.5	74
347	How wood evolves: a new synthesis. <i>Botany</i> , 2012, 90, 901-940.	0.5	112

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348	Hydraulic architecture of two species differing in wood density: opposing strategies in co-occurring tropical pioneer trees. <i>Plant, Cell and Environment</i> , 2012, 35, 116-125.	2.8	72
349	Wood anatomical traits as a measure of plant responses to water availability: invasive <i>Acacia mearnsii</i> De Wild. compared with native tree species in fynbos riparian ecotones, South Africa. <i>Trees - Structure and Function</i> , 2012, 26, 1527-1536.	0.9	21
350	Variation in wood density and anatomy in a widespread mangrove species. <i>Trees - Structure and Function</i> , 2012, 26, 1555-1563.	0.9	41
351	Do the phenology and functional stem attributes of woody species allow for the identification of functional groups in the semiarid region of Brazil?. <i>Trees - Structure and Function</i> , 2012, 26, 1605-1616.	0.9	51
352	Cenozoic climate change shaped the evolutionary ecophysiology of the Cupressaceae conifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9647-9652.	3.3	125
353	Xylogenesis in black spruce subjected to rain exclusion in the field<sup>1</sup></sup> This article is one of a selection of papers from the 7th International Conference on Disturbance Dynamics in Boreal Forests.. <i>Canadian Journal of Forest Research</i> , 2012, 42, 1306-1315.	0.8	29
354	Does homeostasis or disturbance of homeostasis in minimum leaf water potential explain the isohydric versus anisohydric behavior of <i>Vitis vinifera</i> L. cultivars?. <i>Tree Physiology</i> , 2012, 32, 245-248.	1.4	112
355	Hydraulic safety margins and embolism reversal in stems and leaves: Why are conifers and angiosperms so different?. <i>Plant Science</i> , 2012, 195, 48-53.	1.7	192
356	Fluctuations of cambial activity in relation to precipitation result in annual rings and intra-annual growth zones of xylem and phloem in teak ( <i>Tectona grandis</i> ) in Ivory Coast. <i>Annals of Botany</i> , 2012, 110, 861-873.	1.4	56
357	Xylem Cavitation and Embolism in Plants Living in Water-Limited Ecosystems. , 2012, , 63-109.		37
358	Antioxidant Defenses Against Drought Stress. , 2012, , 231-258.		19
359	Wood specific gravity estimation based on wood anatomical traits: Inference of key ecological characteristics in fossil assemblages. <i>Review of Palaeobotany and Palynology</i> , 2012, 187, 1-10.	0.8	10
360	Palaeozoic landscapes shaped by plant evolution. <i>Nature Geoscience</i> , 2012, 5, 99-105.	5.4	234
361	Coordinated evolution of leaf and stem economics in tropical dry forest trees. <i>Ecology</i> , 2012, 93, 2397-2406.	1.5	148
362	Evapotranspiration: A process driving mass transport and energy exchange in the soil-plant-atmosphere-climate system. <i>Reviews of Geophysics</i> , 2012, 50, .	9.0	334
363	The Ecohydrology of a pioneer wetland species and a drastically altered landscape. <i>Ecohydrology</i> , 2012, 5, 656-667.	1.1	8
364	Influence of region of provenance and climate factors on wood anatomical traits of <i>Pinus nigra</i> Arn. subsp. <i>salzmannii</i> . <i>European Journal of Forest Research</i> , 2012, 131, 633-645.	1.1	31
365	Salt stress induces the formation of a novel type of "pressure wood"™ in two <i>Populus</i> species. <i>New Phytologist</i> , 2012, 194, 129-141.	3.5	85

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366	Moving beyond the cambium necrosis hypothesis of post-fire tree mortality: cavitation and deformation of xylem in forest fires. <i>New Phytologist</i> , 2012, 194, 254-263.	3.5	111
367	Functional responses of baobab ( <i>Adansonia digitata</i> L.) seedlings to drought conditions: Differences between western and south-eastern Africa. <i>Environmental and Experimental Botany</i> , 2012, 75, 181-187.	2.0	32
368	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.	2.0	35
369	Understanding trait interactions and their impacts on growth in Scots pine branches across Europe. <i>Functional Ecology</i> , 2012, 26, 541-549.	1.7	52
370	A species-level model for metabolic scaling in trees I. Exploring boundaries to scaling space within and across species. <i>Functional Ecology</i> , 2012, 26, 1054-1065.	1.7	47
371	Hydraulic conductivity traits predict growth rates and adult stature of 40 Asian tropical tree species better than wood density. <i>Journal of Ecology</i> , 2012, 100, 732-741.	1.9	133
372	Do arid species use less water than mesic species in an irrigated common garden?. <i>Urban Ecosystems</i> , 2012, 15, 215-232.	1.1	8
373	Leaf hydraulic vulnerability influences species' bioclimatic limits in a diverse group of woody angiosperms. <i>Oecologia</i> , 2012, 168, 1-10.	0.9	87
374	Wood anatomical responses of oak saplings exposed to air warming and soil drought. <i>Plant Biology</i> , 2013, 15, 210-219.	1.8	60
375	Gene expression patterns underlying changes in xylem structure and function in response to increased nitrogen availability in hybrid poplar. <i>Plant, Cell and Environment</i> , 2013, 36, 186-199.	2.8	98
376	Wood density variation in four plantation species growing in Bangladesh. <i>Journal of the Indian Academy of Wood Science</i> , 2013, 10, 32-38.	0.3	9
378	Structural diversity of the wood of temperate species of <i>Acacia</i> s.s. (Leguminosae: Mimosoideae). <i>Australian Journal of Botany</i> , 2013, 61, 291.	0.3	2
379	Large trees drive forest aboveground biomass variation in moist lowland forests across the tropics. <i>Global Ecology and Biogeography</i> , 2013, 22, 1261-1271.	2.7	365
380	Increasing atmospheric [ $\text{CO}_2$ ] from glacial to future concentrations affects drought tolerance via impacts on leaves, xylem and their integrated function. <i>New Phytologist</i> , 2013, 199, 738-748.	3.5	30
381	The temporal response to drought in a Mediterranean evergreen tree: comparing a regional precipitation gradient and a throughfall exclusion experiment. <i>Global Change Biology</i> , 2013, 19, 2413-2426.	4.2	106
382	Embolism resistance as a key mechanism to understand adaptive plant strategies. <i>Current Opinion in Plant Biology</i> , 2013, 16, 287-292.	3.5	181
383	Diverging drought-tolerance strategies explain tree species distribution along a fog-dependent moisture gradient in a temperate rain forest. <i>Oecologia</i> , 2013, 173, 625-635.	0.9	23
384	Drought-induced adaptive changes in the seedling anatomy of <i>Acacia ehrenbergiana</i> and <i>Acacia tortilis</i> subsp. <i>raddiana</i> . <i>Trees - Structure and Function</i> , 2013, 27, 959-971.	0.9	28

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385	Xylem plasticity allows rapid hydraulic adjustment to annual climatic variability. <i>Trees - Structure and Function</i> , 2013, 27, 485-496.	0.9	84
386	Xylem anatomy and calculated hydraulic conductance of four <i>Nothofagus</i> species with contrasting distribution in South-Central Chile. <i>Trees - Structure and Function</i> , 2013, 27, 685-696.	0.9	22
387	Functional convergence in water use of trees from different geographical regions: a meta-analysis. <i>Trees - Structure and Function</i> , 2013, 27, 787-799.	0.9	22
388	Interactive Effects of Elevated CO <sub>2</sub> , Drought, and Warming on Plants. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 692-707.	2.8	96
389	The effect of subambient to elevated atmospheric CO <sub>2</sub> concentration on vascular function in <i>Helianthus annuus</i> : implications for plant response to climate change. <i>New Phytologist</i> , 2013, 199, 956-965.	3.5	28
390	Biological constraints on water transport in the soil-plant-atmosphere system. <i>Advances in Water Resources</i> , 2013, 51, 292-304.	1.7	110
391	Cellular Aspects of Wood Formation. <i>Plant Cell Monographs</i> , 2013, , .	0.4	32
392	Wood anatomical correlates with theoretical conductivity and wood density across China: evolutionary evidence of the functional differentiation of axial and radial parenchyma. <i>Annals of Botany</i> , 2013, 112, 927-935.	1.4	72
393	Chemical responses to modified lignin composition in tension wood of hybrid poplar ( <i>Populus</i> ) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 422	1.4	16
394	Water relations and drought tolerance of young African tamarind ( <i>Tamarindus indica</i> L.) trees. <i>South African Journal of Botany</i> , 2013, 88, 352-360.	1.2	7
395	Functional relationships between leaf hydraulics and leaf economic traits in response to nutrient addition in subtropical tree species. <i>Tree Physiology</i> , 2013, 33, 1308-1318.	1.4	55
396	Differential response to soil drought among co-occurring broad-leaved tree species growing in a 15- to 25-year-old mixed stand. <i>Annals of Forest Science</i> , 2013, 70, 31-39.	0.8	35
397	Optimal stomatal conductance in relation to photosynthesis in climatically contrasting <i>Eucalyptus</i> species under drought. <i>Plant, Cell and Environment</i> , 2013, 36, 262-274.	2.8	104
398	Functional traits of trees on and off termite mounds: understanding the origin of biotically-driven heterogeneity in savannas. <i>Journal of Vegetation Science</i> , 2013, 24, 227-238.	1.1	54
399	A functional approach reveals community responses to disturbances. <i>Trends in Ecology and Evolution</i> , 2013, 28, 167-177.	4.2	1,341
400	Sap flow and water use in African baobab ( <i>Adansonia digitata</i> L.) seedlings in response to drought stress. <i>South African Journal of Botany</i> , 2013, 88, 438-446.	1.2	26
401	Drought response strategies define the relative contributions of hydraulic dysfunction and carbohydrate depletion during tree mortality. <i>New Phytologist</i> , 2013, 197, 862-872.	3.5	378
402	Plant hydraulics and photosynthesis of 34 woody species from different successional stages of subtropical forests. <i>Plant, Cell and Environment</i> , 2013, 36, 879-891.	2.8	116

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403	Leaf phenology is associated with soil water availability and xylem traits in a tropical dry forest. <i>Trees - Structure and Function</i> , 2013, 27, 745-754.	0.9	71
404	Hydraulic limits on maximum plant transpiration and the emergence of the safety-efficiency tradeoff. <i>New Phytologist</i> , 2013, 198, 169-178.	3.5	168
405	Strong radial variation in wood density follows a uniform pattern in two neotropical rain forests. <i>Functional Ecology</i> , 2013, 27, 684-692.	1.7	48
406	The Plant Vascular System: Evolution, Development and Functions. <i>Journal of Integrative Plant Biology</i> , 2013, 55, 294-388.	4.1	553
407	Fluxes of Carbon, Water and Nutrients. , 2013, , 225-328.		0
408	Contrasting hydraulic strategies in two tropical lianas and their host trees. <i>American Journal of Botany</i> , 2013, 100, 374-383.	0.8	44
409	Water-use efficiency and whole-plant performance of nine tropical tree species at two sites with contrasting water availability in Panama. <i>Trees - Structure and Function</i> , 2013, 27, 639-653.	0.9	25
410	Shoot desiccation and hydraulic failure in temperate woody angiosperms during an extreme summer drought. <i>New Phytologist</i> , 2013, 200, 322-329.	3.5	176
411	The anatomical basis of the link between density and mechanical strength in mangrove branches. <i>Functional Plant Biology</i> , 2013, 40, 400.	1.1	15
412	Wood Formation Under Drought Stress and Salinity. <i>Plant Cell Monographs</i> , 2013, , 187-202.	0.4	13
413	The stem xylem of Patagonian shrubs operates far from the point of catastrophic dysfunction and is additionally protected from drought-induced embolism by leaves and roots. <i>Plant, Cell and Environment</i> , 2013, 36, 2163-2174.	2.8	63
414	Radial Gradients in Wood Specific Gravity, Water and Gas Content in Trees of a Mexican Tropical Rain Forest. <i>Biotropica</i> , 2013, 45, 280-287.	0.8	12
415	Hydraulic properties of European elms: xylem safety-efficiency tradeoff and species distribution in the Iberian Peninsula. <i>Trees - Structure and Function</i> , 2013, 27, 1691-1701.	0.9	25
416	Effects of weed control and fertilization at early establishment on tree nitrogen and water use in an exotic F1 hybrid pine of subtropical Australia. <i>Journal of Soils and Sediments</i> , 2013, 13, 1538-1552.	1.5	6
417	Hydraulics of high-yield orchard trees: a case study of three <i>Malus domestica</i> cultivars. <i>Tree Physiology</i> , 2013, 33, 1296-1307.	1.4	32
418	Xylem Adjustment in <i>Erica Arborea</i> to Temperature and Moisture Availability in Contrasting Climates. <i>IAWA Journal</i> , 2013, 34, 109-126.	2.7	20
419	Hydraulic and biomechanical optimization in Norway spruce trunkwood - a review. <i>IAWA Journal</i> , 2013, 34, 365-390.	2.7	30
421	Axial conduit widening in woody species: a still neglected anatomical pattern. <i>IAWA Journal</i> , 2013, 34, 352-364.	2.7	131



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422	Whole-plant trait spectra of North American woody plant species reflect fundamental ecological strategies. <i>Ecosphere</i> , 2013, 4, 1-28.	1.0	52
423	Predicting the distribution of potential natural vegetation based on species functional groups in fragmented and species-rich forests. <i>Plant Ecology and Evolution</i> , 2013, 146, 261-271.	0.3	6
424	Different responses in leaf pigments and leaf mass per area to altitude between evergreen and deciduous woody species. <i>Australian Journal of Botany</i> , 2013, 61, 424.	0.3	17
425	Why do trees adjust water relations and hydraulic architecture in response to nutrient availability?. <i>Tree Physiology</i> , 2013, 33, 238-240.	1.4	79
426	The physiological resilience of fern sporophytes and gametophytes: advances in water relations offer new insights into an old lineage. <i>Frontiers in Plant Science</i> , 2013, 4, 285.	1.7	79
427	The physiology of invasive plants in low-resource environments. , 2013, 1, cot026-cot026.		182
428	Fibre wall and lumen fractions drive wood density variation across 24 Australian angiosperms. <i>AoB PLANTS</i> , 2013, 5, .	1.2	121
429	How to quantify conduits in wood?. <i>Frontiers in Plant Science</i> , 2013, 4, 56.	1.7	182
430	Recovery performance in xylem hydraulic conductivity is correlated with cavitation resistance for temperate deciduous tree species. <i>Tree Physiology</i> , 2013, 33, 335-344.	1.4	105
431	Scaling of xylem and phloem transport capacity and resource usage with tree size. <i>Frontiers in Plant Science</i> , 2013, 4, 496.	1.7	52
432	Contrasting xylem vessel constraints on hydraulic conductivity between native and non-native woody understory species. <i>Frontiers in Plant Science</i> , 2013, 4, 486.	1.7	24
433	Root and leaf functional trait relations in Poaceae species: implications of differing resource-acquisition strategies. <i>Journal of Plant Ecology</i> , 2013, 6, 211-219.	1.2	94
434	Shifts in Leaf and Stem Hydraulic Traits across Aridity Gradients in Eastern Australia. <i>International Journal of Plant Sciences</i> , 2013, 174, 1292-1301.	0.6	43
435	Removal of nutrient limitations in forest gaps enhances growth rate and resistance to cavitation in subtropical canopy tree species differing in shade tolerance. <i>Tree Physiology</i> , 2013, 33, 285-296.	1.4	34
436	The effects of throughfall exclusion on xylogenesis of balsam fir. <i>Tree Physiology</i> , 2013, 33, 516-526.	1.4	26
437	Contrasting trait syndromes in angiosperms and conifers are associated with different responses of tree growth to temperature on a large scale. <i>Frontiers in Plant Science</i> , 2013, 4, 409.	1.7	160
438	Vulnerability to cavitation, hydraulic efficiency, growth and survival in an insular pine ( <i>Pinus</i> )	1.4	76
439	A comparison of the hydraulic efficiency of a palm species ( <i>Iriarteia deltoidea</i> ) with other wood types. <i>Tree Physiology</i> , 2013, 33, 152-160.	1.4	15

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440	Gender specific patterns of carbon uptake and water use in a dominant riparian tree species exposed to a warming climate. <i>Global Change Biology</i> , 2013, 19, 3390-3405.	4.2	25
441	Hemlock woolly adelgid ( <i>Adelges tsugae</i> ) infestation affects water and carbon relations of eastern hemlock ( <i>Tsuga canadensis</i> ) and Carolina hemlock ( <i>Tsuga caroliniana</i> ). <i>New Phytologist</i> , 2013, 199, 452-463.	3.5	58
442	Allometry of cells and tissues within leaves. <i>American Journal of Botany</i> , 2013, 100, 1936-1948.	0.8	79
443	Climate drives vein anatomy in Proteaceae. <i>American Journal of Botany</i> , 2013, 100, 1483-1493.	0.8	32
444	Predicting Policy Impact on Tropical Dry Forests. , 2013, , 429-446.		0
445	Prediction of Wood Fiber Attributes from LiDAR-Derived Forest Canopy Indicators. <i>Forest Science</i> , 2013, 59, 231-242.	0.5	26
446	Contrasting Hydraulic Strategies during Dry Soil Conditions in <i>Quercus rubra</i> and <i>Acer rubrum</i> in a Sandy Site in Michigan. <i>Forests</i> , 2013, 4, 1106-1120.	0.9	65
447	Plant Traits Demonstrate That Temperate and Tropical Giant Eucalypt Forests Are Ecologically Convergent with Rainforest Not Savanna. <i>PLoS ONE</i> , 2013, 8, e84378.	1.1	29
448	The Influence of Branch Order on Optimal Leaf Vein Geometries: Murray's Law and Area Preserving Branching. <i>PLoS ONE</i> , 2013, 8, e85420.	1.1	33
449	Nobody's perfect: can irregularities in pit structure influence vulnerability to cavitation?. <i>Frontiers in Plant Science</i> , 2013, 4, 453.	1.7	40
450	Modeling 400 Million Years of Plant Hydraulics. <i>The Paleontological Society Papers</i> , 2013, 19, 175-194.	0.8	24
451	FORMATION AND REPAIR OF XYLEM EMBOLISMS: CURRENT STATE OF KNOWLEDGE AND IMPLICATIONS FOR IRRIGATION OF HORTICULTURAL CROPS. <i>Acta Horticulturae</i> , 2014, , 311-325.	0.1	2
452	Wood Anatomy Reveals High Theoretical Hydraulic Conductivity and Low Resistance to Vessel Implosion in a Cretaceous Fossil Forest from Northern Mexico. <i>PLoS ONE</i> , 2014, 9, e108866.	1.1	9
453	Optimal plant water-use strategies under stochastic rainfall. <i>Water Resources Research</i> , 2014, 50, 5379-5394.	1.7	41
454	Tree shoot bending generates hydraulic pressure pulses: a new long-distance signal?. <i>Journal of Experimental Botany</i> , 2014, 65, 1997-2008.	2.4	22
455	Traits, properties, and performance: how woody plants combine hydraulic and mechanical functions in a cell, tissue, or whole plant. <i>New Phytologist</i> , 2014, 204, 747-764.	3.5	154
456	How eco-evolutionary principles can guide tree breeding and tree biotechnology for enhanced productivity. <i>Tree Physiology</i> , 2014, 34, 1149-1166.	1.4	14
457	How drought and deciduousness shape xylem plasticity in three Costa Rican woody plant species. <i>IAWA Journal</i> , 2014, 35, 337-355.	2.7	17

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458	Cambial Activity in <i>Acacia Tortilis</i> Subsp. <i>Tortilis</i> is Highest During the Hottest and Driest Month. <i>IAWA Journal</i> , 2014, 35, 138-154.	2.7	2
459	Using trait and phylogenetic diversity to evaluate the generality of the stressâ€dominance hypothesis in eastern North American tree communities. <i>Ecography</i> , 2014, 37, 814-826.	2.1	113
460	The dynamic pipeline: hydraulic capacitance and xylem hydraulic safety in four tall conifer species. <i>Plant, Cell and Environment</i> , 2014, 37, 1171-1183.	2.8	135
461	Axial vessel widening in arborescent monocots. <i>Tree Physiology</i> , 2014, 34, 137-145.	1.4	13
462	Wood specific gravity and anatomy of branches and roots in 113 <i>A</i> mazonian rainforest tree species across environmental gradients. <i>New Phytologist</i> , 2014, 202, 79-94.	3.5	89
463	Declining hydraulic performances and low carbon investments in tree rings predate Scots pine drought-induced mortality. <i>Trees - Structure and Function</i> , 2014, 28, 1737-1750.	0.9	58
464	Bark and leaf chlorophyll fluorescence are linked to wood structural changes in <i>Eucalyptus saligna</i> . <i>AoB PLANTS</i> , 2014, 6, .	1.2	8
465	A broad survey of hydraulic and mechanical safety in the xylem of conifers. <i>Journal of Experimental Botany</i> , 2014, 65, 4419-4431.	2.4	135
466	Changes in tracheid and ray traits in fire scars of North American conifers and their ecophysiological implications. <i>Annals of Botany</i> , 2014, 114, 223-232.	1.4	39
467	Patterns of seed dispersal syndromes on serpentine soils: examining the roles of habitat patchiness, soil infertility and correlated functional traits. <i>Plant Ecology and Diversity</i> , 2014, 7, 401-410.	1.0	30
468	Selective behavior of Creole goats in response to the functional heterogeneity of native forage species in the central Monte desert, Argentina. <i>Small Ruminant Research</i> , 2014, 120, 90-99.	0.6	27
469	The distribution of four <i>Caragana</i> species is related to their differential responses to drought stress. <i>Plant Ecology</i> , 2014, 215, 133-142.	0.7	12
470	Water loss regulation to soil drought associated with xylem vulnerability to cavitation in temperate ring-porous and diffuse-porous tree seedlings. <i>Trees - Structure and Function</i> , 2014, 28, 461-469.	0.9	9
471	Heritability of <i>Ulmus minor</i> resistance to Dutch elm disease and its relationship to vessel size, but not to xylem vulnerability to drought. <i>Plant Pathology</i> , 2014, 63, 500-509.	1.2	45
472	The intrinsic dimensionality of plant traits and its relevance to community assembly. <i>Journal of Ecology</i> , 2014, 102, 186-193.	1.9	312
473	Applying traitâ€based models to achieve functional targets for theoryâ€driven ecological restoration. <i>Ecology Letters</i> , 2014, 17, 771-784.	3.0	364
474	Constraints to hydraulic acclimation under reduced light in two contrasting <i>Phaseolus vulgaris</i> cultivars. <i>Journal of Experimental Botany</i> , 2014, 65, 4409-4418.	2.4	3
475	Minimum wood density of <i>Juniperus thurifera</i> is a robust proxy of spring water availability in a continental Mediterranean climate. <i>Journal of Biogeography</i> , 2014, 41, 1105-1114.	1.4	47

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476	The challenge of the Mediterranean climate to plant hydraulics: Responses and adaptations. <i>Environmental and Experimental Botany</i> , 2014, 103, 68-79.	2.0	96
477	The Physicochemical Hydrodynamics of Vascular Plants. <i>Annual Review of Fluid Mechanics</i> , 2014, 46, 615-642.	10.8	160
478	Bacillus spores as building blocks for stimuli-responsive materials and nanogenerators. <i>Nature Nanotechnology</i> , 2014, 9, 137-141.	15.6	166
479	A model-based meta-analysis for estimating species-specific wood density and identifying potential sources of variation. <i>Journal of Ecology</i> , 2014, 102, 194-208.	1.9	19
480	Determinants of maximum tree height in <i>Eucalyptus</i> species along a rainfall gradient in Victoria, Australia. <i>Ecology</i> , 2014, 95, 2991-3007.	1.5	97
481	Strong hydraulic segmentation and leaf senescence due to dehydration may trigger die-back in <i>Nothofagus dombeyi</i> under severe droughts: a comparison with the co-occurring <i>Austrocedrus chilensis</i> . <i>Trees - Structure and Function</i> , 2014, 28, 1475-1487.	0.9	44
482	Anatomical adaptations of <i>Astragalus gombiformis</i> Pomel. under drought stress. <i>Open Life Sciences</i> , 2014, 9, 1215-1225.	0.6	13
483	Wood density as a screening trait for drought sensitivity in Norway spruce. <i>Canadian Journal of Forest Research</i> , 2014, 44, 154-161.	0.8	58
484	Conifer species adapt to low-rainfall climates by following one of two divergent pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14489-14493.	3.3	262
485	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.	0.8	56
486	Coordination of stem and leaf hydraulic conductance in southern California shrubs: a test of the hydraulic segmentation hypothesis. <i>New Phytologist</i> , 2014, 203, 842-850.	3.5	148
487	Exploring high frequency densitometry calibration functions for different tree species. <i>Dendrochronologia</i> , 2014, 32, 273-281.	1.0	18
488	Leaf hydraulic capacity and drought vulnerability: possible trade-offs and correlations with climate across three major biomes. <i>Functional Ecology</i> , 2014, 28, 810-818.	1.7	112
489	Do alien and native tree species from Central Argentina differ in their water transport strategy?. <i>Austral Ecology</i> , 2014, 39, 984-991.	0.7	28
490	Tropical tree assembly depends on the interactions between successional and soil filtering processes. <i>Global Ecology and Biogeography</i> , 2014, 23, 1440-1449.	2.7	22
491	Wood structural differences between northern and southern beech provenances growing at a moderate site. <i>Tree Physiology</i> , 2014, 34, 882-893.	1.4	58
492	Intraspecific variability in functional traits matters: case study of Scots pine. <i>Oecologia</i> , 2014, 175, 1337-1348.	0.9	55
493	An experimentally controlled extreme drought in a Norway spruce forest reveals fast hydraulic response and subsequent recovery of growth rates. <i>Trees - Structure and Function</i> , 2014, 28, 891-900.	0.9	40

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494	Wood density proxies of adaptive traits linked with resistance to drought in Douglas fir ( <i>Pseudotsuga menziesii</i> (Mirb.) Franco). <i>Trees - Structure and Function</i> , 2014, 28, 1289-1304.	0.9	32
495	Comparative axial widening of phloem and xylem conduits in small woody plants. <i>Trees - Structure and Function</i> , 2014, 28, 915-921.	0.9	55
496	Isotopic and anatomical signals for interpreting fire-related responses in <i>Pinus halepensis</i> . <i>Trees - Structure and Function</i> , 2014, 28, 1095-1104.	0.9	29
497	Xylem and phloem phenology in co-occurring conifers exposed to drought. <i>Trees - Structure and Function</i> , 2014, 28, 1161-1171.	0.9	60
498	Environmental filtering of species with different functional traits into plant assemblages across a tropical coniferous-broadleaved forest ecotone. <i>Plant and Soil</i> , 2014, 380, 361-374.	1.8	24
499	Norway spruce physiological and anatomical predisposition to dieback. <i>Forest Ecology and Management</i> , 2014, 322, 27-36.	1.4	57
500	Forest fragment spatial distribution matters for tropical tree conservation. <i>Biological Conservation</i> , 2014, 171, 99-106.	1.9	63
502	Physiological acclimation to drought stress in <i>Solidago canadensis</i> . <i>Physiologia Plantarum</i> , 2014, 150, 529-539.	2.6	21
503	Wood hydraulic and mechanical properties induced by low water availability on two ornamental species <i>Photinia fraseri</i> var. Red Robin and <i>Viburnum opulus</i> L.. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 158-165.	2.3	4
504	Floristic shifts versus critical transitions in Amazonian forest systems. , 0, , 131-160.		4
505	Drought as a driver of tropical tree species regeneration dynamics and distribution patterns. , 2014, , 261-308.		38
506	Using steam to reduce artifacts in micro sections prepared with corn starch. <i>Dendrochronologia</i> , 2015, 35, 87-90.	1.0	3
507	Dwarf shrub hydraulics: two <i>Vaccinium</i> species ( <i>Vaccinium myrtillus</i> , <i>Vaccinium vitis-idaea</i> ) of the European Alps compared. <i>Physiologia Plantarum</i> , 2015, 155, 424-434.	2.6	22
508	Differences in seedling water-stress response of two co-occurring <i>Banksia</i> species. <i>Australian Journal of Botany</i> , 2015, 63, 647.	0.3	2
509	Hydraulic architecture of lianas in a semiarid climate: efficiency or safety?. <i>Acta Botanica Brasiliica</i> , 2015, 29, 198-206.	0.8	12
510	Crown-fibre attribute relationships for enhanced forest inventory: Progress and prospects. <i>Forestry Chronicle</i> , 2015, 91, 266-279.	0.5	14
511	Water limitations on forest carbon cycling and conifer traits along a steep climatic gradient in the Cascade Mountains, Oregon. <i>Biogeosciences</i> , 2015, 12, 6617-6635.	1.3	19
512	Functional Trait Strategies of Trees in Dry and Wet Tropical Forests Are Similar but Differ in Their Consequences for Succession. <i>PLoS ONE</i> , 2015, 10, e0123741.	1.1	102

#	ARTICLE	IF	CITATIONS
513	Functional traits variation explains the distribution of <i>Aextoxicon punctatum</i> (Aextoxicaceae) in pronounced moisture gradients within fog-dependent forest fragments. <i>Frontiers in Plant Science</i> , 2015, 6, 511.	1.7	13
514	How tree roots respond to drought. <i>Frontiers in Plant Science</i> , 2015, 6, 547.	1.7	520
515	Five willow varieties cultivated across diverse field environments reveal stem density variation associated with high tension wood abundance. <i>Frontiers in Plant Science</i> , 2015, 6, 948.	1.7	15
516	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.	2.4	41
517	Vulnerability to drought-induced cavitation in poplars: synthesis and future opportunities. <i>Plant, Cell and Environment</i> , 2015, 38, 1233-1251.	2.8	44
519	The Hydraulic Architecture of Conifers. , 2015, , 39-75.		29
520	Diverse patterns of stored water use among saplings in seasonally dry tropical forests. <i>Oecologia</i> , 2015, 179, 925-936.	0.9	32
521	The Hydraulic Architecture of <i>Populus</i> . , 2015, , 103-131.		11
522	Inter- and intra-specific variation in drought sensitivity in <i>Abies spec.</i> and its relation to wood density and growth traits. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 430-443.	1.9	63
523	Comparative examinations of gas exchange and biometric parameters of eight fast-growing poplar clones. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	3
524	Exploiting water versus tolerating drought: water-use strategies of trees in a secondary successional tropical dry forest. <i>Tree Physiology</i> , 2016, 36, 124.	1.4	42
525	Physiological Profiles as Indicators of Response to Hurricane Disturbance for Three Coastal Wetland Species. <i>Journal of Coastal Research</i> , 2015, 314, 986-993.	0.1	7
526	Variation in photosynthetic performance and hydraulic architecture across European beech ( <i>Fagus sylvatica</i> ) trees. <i>Tree Physiology</i> , 2015, 35, 34-46.	1.4	83
527	Effects of Warming and Drought on the Vegetation and Plant Diversity in the Amazon Basin. <i>Botanical Review</i> , 2015, 81, 42-69.	1.7	37
528	Analysis of wood density profiles of tree stems: incorporating vertical variations to optimize wood sampling strategies for density and biomass estimations. <i>Trees - Structure and Function</i> , 2015, 29, 551-561.	0.9	37
529	Automated quantification of intra-annual density fluctuations using microdensity profiles of mature <i>Pinus taeda</i> in a replicated irrigation experiment. <i>Trees - Structure and Function</i> , 2015, 29, 185-197.	0.9	8
530	Composition and structure of balsa ( <i>Ochroma pyramidale</i> ) wood. <i>Wood Science and Technology</i> , 2015, 49, 403-420.	1.4	118
531	The Structure and Function of Xylem in Seed-Free Vascular Plants: An Evolutionary Perspective. , 2015, , 1-37.		20

#	ARTICLE	IF	CITATIONS
532	Expression of functional traits during seedling establishment in two populations of <i>Pinus ponderosa</i> from contrasting climates. <i>Tree Physiology</i> , 2015, 35, 535-548.	1.4	40
533	The Role of Xylem Parenchyma in the Storage and Utilization of Nonstructural Carbohydrates. , 2015, , 209-234.		65
534	Wood Anatomy and Plant Hydraulics in a Changing Climate. , 2015, , 235-253.		36
535	Ecophysiological basis of wood formation in ponderosa pine: Linking water flux patterns with wood microdensity variables. <i>Forest Ecology and Management</i> , 2015, 346, 31-40.	1.4	7
536	Complex climate constraints of upper treeline formation in the Pyrenees. <i>Trees - Structure and Function</i> , 2015, 29, 941-952.	0.9	27
537	Chronic drought stress reduced but not protected Shantung maple ( <i>Acer truncatum</i> Bunge) from adverse effects of ozone (O <sub>3</sub> ) on growth and physiology in the suburb of Beijing, China. <i>Environmental Pollution</i> , 2015, 201, 34-41.	3.7	41
538	Life in the treetops: ecophysiological strategies of canopy epiphytes in a tropical montane cloud forest. <i>Ecological Monographs</i> , 2015, 85, 393-412.	2.4	81
539	Hydrological conditions explain variation in wood density in riparian plants of south-eastern Australia. <i>Journal of Ecology</i> , 2015, 103, 945-956.	1.9	30
540	Predicting plant vulnerability to drought in biodiverse regions using functional traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5744-5749.	3.3	261
541	Acclimation of mechanical and hydraulic functions in trees: impact of the thigmomorphogenetic process. <i>Frontiers in Plant Science</i> , 2015, 6, 266.	1.7	58
542	Five decades of growth in a genetic field trial of Douglas-fir reveal trade-offs between productivity and drought tolerance. <i>Tree Genetics and Genomes</i> , 2015, 11, 1.	0.6	37
543	Functional and Ecological Xylem Anatomy. , 2015, , .		35
544	Biophysical modelling of intra-ring variations in tracheid features and wood density of <i>Pinus pinaster</i> trees exposed to seasonal droughts. <i>Tree Physiology</i> , 2015, 35, 305-318.	1.4	38
545	Effects of cambial age and flow path-length on vessel characteristics in birch. <i>Journal of Forest Research</i> , 2015, 20, 175-185.	0.7	16
546	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , 2015, 5, 459-464.	8.1	397
547	XRCT images and variograms reveal 3D changes in wood density of riparian trees affected by floods. <i>Trees - Structure and Function</i> , 2015, 29, 1115-1126.	0.9	11
548	How do drought and warming influence survival and wood traits of <i>Picea mariana</i> saplings?. <i>Journal of Experimental Botany</i> , 2015, 66, 377-389.	2.4	52
549	Drought tolerance as predicted by leaf water potential at turgor loss point varies strongly across species within an Amazonian forest. <i>Functional Ecology</i> , 2015, 29, 1268-1277.	1.7	151

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550	Integrative Xylem Analysis of Chaparral Shrubs. , 2015, , 189-207.		21
551	Comparison of phloem and xylem hydraulic architecture in <i>Pinus abies</i> stems. New Phytologist, 2015, 205, 102-115.	3.5	79
552	The standard centrifuge method accurately measures vulnerability curves of long-vesselled olive stems. New Phytologist, 2015, 205, 116-127.	3.5	89
553	Functional trait variation along environmental gradients in temperate and Mediterranean trees. Global Ecology and Biogeography, 2015, 24, 1377-1389.	2.7	62
554	Hierarchical analysis of black spruce and balsam fir wood density in Newfoundland. Canadian Journal of Forest Research, 2015, 45, 805-816.	0.8	7
555	A comparison of hydraulic architecture in three similarly sized woody species differing in their maximum potential height. Tree Physiology, 2015, 35, 723-731.	1.4	20
556	Functional responses of Sycamore maple and Italian alder to the Mediterranean climate. Trees - Structure and Function, 2015, 29, 1907-1916.	0.9	3
557	A new modeling approach estimates the relative importance of different community assembly processes. Ecology, 2015, 96, 1502-1515.	1.5	39
558	Drought-induced weakening of growth-temperature associations in high-elevation Iberian pines. Global and Planetary Change, 2015, 124, 95-106.	1.6	51
559	Shifts in trait means and variances in North American tree assemblages: species richness patterns are loosely related to the functional space. Ecography, 2015, 38, 649-658.	2.1	89
560	Stem CO <sub>2</sub> efflux in six co-occurring tree species: underlying factors and ecological implications. Plant, Cell and Environment, 2015, 38, 1104-1115.	2.8	30
561	Biophysical limits to responses of water flux to vapor pressure deficit in seven tree species with contrasting land use regimes. Agricultural and Forest Meteorology, 2015, 200, 258-269.	1.9	38
562	Root functional trait syndromes and plasticity drive the ability of grassland Fabaceae to tolerate water and phosphorus shortage. Environmental and Experimental Botany, 2015, 110, 62-72.	2.0	53
563	Decreased resistance to embolism in red maple ( <i>Acer rubrum</i> L.) saplings within a heavy metal contaminated region. Environmental and Experimental Botany, 2015, 109, 40-44.	2.0	8
564	Resource economics and coordination among above- and below-ground functional traits of three dominant shrubs from the Chilean coastal desert. Journal of Plant Ecology, 2015, 8, 70-78.	1.2	15
565	Role of hydraulic and chemical signals in leaves, stems and roots in the stomatal behaviour of olive trees under water stress and recovery conditions. Tree Physiology, 2015, 35, 415-424.	1.4	74
566	Radial evolution of vascular elements in the oak <i>Quercus ilex</i> L. wood. Journal of Forest Science, 2016, 62, 463-469.	0.5	0
567	Lignin in Woody Plants under Water Stress: A Review. Floresta E Ambiente, 2016, 23, 589-597.	0.1	24



#	ARTICLE	IF	CITATIONS
568	Abiotic Stresses on Secondary Xylem Formation. , 2016, , 59-71.		2
569	Does the Genotype Have a Significant Effect on the Formation of Intra-Annual Density Fluctuations? A Case Study Using <i>Larix decidua</i> from Northern Poland. <i>Frontiers in Plant Science</i> , 2016, 7, 691.	1.7	11
570	Quantitative Wood Anatomyâ€”Practical Guidelines. <i>Frontiers in Plant Science</i> , 2016, 7, 781.	1.7	149
571	Novel Hydraulic Vulnerability Proxies for a Boreal Conifer Species Reveal That Opportunists May Have Lower Survival Prospects under Extreme Climatic Events. <i>Frontiers in Plant Science</i> , 2016, 7, 831.	1.7	35
572	Wood Cellular Dendroclimatology: Testing New Proxies in Great Basin Bristlecone Pine. <i>Frontiers in Plant Science</i> , 2016, 7, 1602.	1.7	33
573	Allocation, stress tolerance and carbon transport in plants: how does phloem physiology affect plant ecology?. <i>Plant, Cell and Environment</i> , 2016, 39, 709-725.	2.8	164
574	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.	2.8	74
575	Eltonian shortfall due to the Grinnellian view: functional ecology between the mismatch of niche concepts. <i>Ecography</i> , 2016, 39, 1034-1041.	2.1	41
576	Functional ratios among leaf, xylem and phloem areas in branches change with shade tolerance, but not with local light conditions, across temperate tree species. <i>New Phytologist</i> , 2016, 209, 1566-1575.	3.5	23
577	Vessel plasticity of European beech in response to thinning and aspect. <i>Tree Physiology</i> , 2016, 36, 1260-1271.	1.4	17
578	Climate determines vascular traits in the ecologically diverse genus <i>Eucalyptus</i> . <i>Ecology Letters</i> , 2016, 19, 240-248.	3.0	137
579	Drought tolerance and growth in populations of a wide-ranging tree species indicate climate change risks for the boreal north. <i>Global Change Biology</i> , 2016, 22, 806-815.	4.2	50
580	Differences in sap fluxâ€”based stand transpiration between upper and lower slope positions in a Japanese cypress plantation watershed. <i>Ecohydrology</i> , 2016, 9, 1105-1116.	1.1	24
581	Riparian plant guilds of ephemeral, intermittent and perennial rivers. <i>Freshwater Biology</i> , 2016, 61, 1259-1275.	1.2	78
582	Mulga, a major tropical dry open forest of Australia: recent insights to carbon and water fluxes. <i>Environmental Research Letters</i> , 2016, 11, 125011.	2.2	19
583	Local-Scale Drought Adaptation of Ponderosa Pine Seedlings at Habitat Ecotones. <i>Forest Science</i> , 2016, 62, 641-651.	0.5	27
584	Contrasting hydraulic strategies in <i>Salix psammophila</i> and <i>Caragana korshinskii</i> in the southern Mu Us Desert, China. <i>Ecological Research</i> , 2016, 31, 869-880.	0.7	13
585	MISSING AND DARK RINGS ASSOCIATED WITH DROUGHT IN <i>PINUS HALEPENSIS</i> . <i>IAWA Journal</i> , 2016, 37, 260-274.	2.7	27

#	ARTICLE	IF	CITATIONS
586	Do community-weighted mean functional traits reflect optimal strategies?. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152434.	1.2	150
587	Branch age and light conditions determine leaf-area-specific conductivity in current shoots of Scots pine. Tree Physiology, 2016, 36, 994-1006.	1.4	6
588	Linking xylem water storage with anatomical parameters in five temperate tree species. Tree Physiology, 2016, 36, 756-769.	1.4	81
589	Within-stem maps of wood density and water content for characterization of species: a case study on three hardwood and two softwood species. Annals of Forest Science, 2016, 73, 601-614.	0.8	26
590	Revealing catastrophic failure of leaf networks under stress. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4865-4869.	3.3	146
591	Water transport properties of seven woody species from the semi-arid Mu Us Sandy Land, China. Landscape and Ecological Engineering, 2016, 12, 209-220.	0.7	3
592	The importance of functional diversity in the stability of Mediterranean shrubland communities after the impact of extreme climatic events. Journal of Plant Ecology, 0, , rtw027.	1.2	15
593	Effects of prescribed burning on ecophysiological, anatomical and stem hydraulic properties in <i>Pinus pinea</i> L.. Tree Physiology, 2016, 36, 1019-1031.	1.4	48
594	Limited acclimation in leaf anatomy to experimental drought in tropical rainforest trees. Tree Physiology, 2016, 36, 1550-1561.	1.4	27
595	Variation of tropical forest assembly processes across regional environmental gradients. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 23, 52-62.	1.1	32
596	Fecundity and the demographic strategies of coral morphologies. Ecology, 2016, 97, 3485-3493.	1.5	71
597	On xylem hydraulic efficiencies, wood space use and the safety efficiency tradeoff. New Phytologist, 2016, 211, 1152-1155.	3.5	58
598	Characterization of archaeological waterlogged wooden objects exposed on the hyper-saline Dead Sea shore. Journal of Archaeological Science: Reports, 2016, 9, 73-86.	0.2	10
599	Tree level hydrodynamic approach for resolving aboveground water storage and stomatal conductance and modeling the effects of tree hydraulic strategy. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1792-1813.	1.3	84
600	Securing African forests for future drier climates: applying ecophysiology in tree improvement. Southern Forests, 2016, 78, 241-254.	0.2	2
601	Water Transport, the Role in Plant Diversification of. , 2016, , 358-366.		4
602	Effect of density on the hygroscopicity and surface characteristics of hybrid poplar compreg. Journal of Wood Science, 2016, 62, 441-451.	0.9	44
603	Shifts in community level traits and functional diversity in a mixed conifer forest: a legacy of land use change. Journal of Applied Ecology, 2016, 53, 1755-1765.	1.9	29

#	ARTICLE	IF	CITATIONS
604	First insights into the functional role of vasicentric tracheids and parenchyma in eucalyptus species with solitary vessels: do they contribute to xylem efficiency or safety?. <i>Tree Physiology</i> , 2016, 36, 1485-1497.	1.4	28
605	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, 2125-2137.	4.2	119
606	How adaptable is the hydraulic system of European beech in the face of climate change-related precipitation reduction?. <i>New Phytologist</i> , 2016, 210, 443-458.	3.5	178
607	INTERVESSEL PIT MEMBRANE THICKNESS AS A KEY DETERMINANT OF EMBOLISM RESISTANCE IN ANGIOSPERM XYLEM. <i>IAWA Journal</i> , 2016, 37, 152-171.	2.7	169
608	Variability of European beech wood density as influenced by interactions between tree-ring growth and aspect. <i>Forest Ecosystems</i> , 2016, 3, .	1.3	19
609	Herbaceous angiosperms are not more vulnerable to drought-induced embolism than angiosperm trees. <i>Plant Physiology</i> , 2016, 172, pp.00829.2016.	2.3	70
610	Mixture reduces climate sensitivity of Douglas-fir stem growth. <i>Forest Ecology and Management</i> , 2016, 376, 205-220.	1.4	109
611	Elevational trends in hydraulic efficiency and safety of <i>Pinus cembra</i> roots. <i>Oecologia</i> , 2016, 180, 1091-1102.	0.9	11
612	Informing arid region mine-site restoration through comparative ecophysiology of <i>Acacia</i> species under drought. <i>Journal of Arid Environments</i> , 2016, 133, 73-84.	1.2	4
613	Xylem traits and water-use efficiency of woody species co-occurring in the Ti Tree Basin arid zone. <i>Trees - Structure and Function</i> , 2016, 30, 295-303.	0.9	23
614	Testing for functional convergence of temperate rainforest tree assemblages in Chile and New Zealand. <i>New Zealand Journal of Botany</i> , 2016, 54, 175-203.	0.8	9
615	Forest Canopy Hydraulics. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 187-217.	1.0	7
616	Long-term impact of <i>Ophiostoma novo-ulm</i> on leaf traits and transpiration of branches in the Dutch elm hybrid "Dodoens"™. <i>Tree Physiology</i> , 2016, 36, 335-344.	1.4	7
617	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.	2.4	40
618	Drought Survival Strategies of Tropical Trees. <i>Tree Physiology</i> , 2016, , 243-258.	0.9	34
619	Tracheid anatomical responses to climate in a forest-steppe in Southern Siberia. <i>Dendrochronologia</i> , 2016, 39, 32-41.	1.0	41
620	Monitoring intra-annual dynamics of wood formation with microcores and dendrometers in <i>Picea abies</i> at two different altitudes. <i>Tree Physiology</i> , 2016, 36, 832-846.	1.4	52
621	Are wood fibres as sensitive to environmental conditions as vessels in tree rings with intra-annual density fluctuations (IADFs) in Mediterranean species?. <i>Trees - Structure and Function</i> , 2016, 30, 971-983.	0.9	20

#	ARTICLE	IF	CITATIONS
622	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, 502-512.	1.4	85
623	Sap flux – a real time assessment of health status in Norway spruce. <i>Scandinavian Journal of Forest Research</i> , 2016, 31, 450-457.	0.5	11
624	Vulnerability to drought-induced cavitation in shoots of two typical shrubs in the southern Mu Us Sandy Land, China. <i>Journal of Arid Land</i> , 2016, 8, 125-137.	0.9	6
625	Strategies of a light-demanding emergent tree to thrive in a neotropical seasonal forest with alternating light or water shortage. <i>Revista Brasileira De Botanica</i> , 2016, 39, 207-218.	0.5	4
626	The response of tropical rainforests to drought – lessons from recent research and future prospects. <i>Annals of Forest Science</i> , 2016, 73, 27-44.	0.8	123
627	Xylem morphology determines the drought response of two <i>Arundo Donax</i> ecotypes from contrasting habitats. <i>GCB Bioenergy</i> , 2017, 9, 119-131.	2.5	41
628	Using trait-based ecology to restore resilient ecosystems: historical conditions and the future of montane forests in western North America. <i>Restoration Ecology</i> , 2017, 25, S135.	1.4	54
629	Predicting species dominance shifts across elevation gradients in mountain forests in Greece under a warmer and drier climate. <i>Regional Environmental Change</i> , 2017, 17, 1165-1177.	1.4	17
630	Low resistance to cavitation and xylem anatomy partly explain the decrease in the endemic <i>Rhamnus ludovici-salvatoris</i> . <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2017, 229, 1-8.	0.6	5
631	Climate variability and community stability in Mediterranean shrublands: the role of functional diversity and soil environment. <i>Journal of Ecology</i> , 2017, 105, 1335-1346.	1.9	32
632	X-ray microdensitometry of wood: A review of existing principles and devices. <i>Dendrochronologia</i> , 2017, 42, 42-50.	1.0	66
633	Soil controls biomass and dynamics of an Amazonian forest through the shifting of species and traits. <i>Revista Brasileira De Botanica</i> , 2017, 40, 451-461.	0.5	16
634	Will seasonally dry tropical forests be sensitive or resistant to future changes in rainfall regimes?. <i>Environmental Research Letters</i> , 2017, 12, 023001.	2.2	210
635	A synthesis of tree functional traits related to drought-induced mortality in forests across climatic zones. <i>Journal of Applied Ecology</i> , 2017, 54, 1669-1686.	1.9	148
636	Tree mortality across biomes is promoted by drought intensity, lower wood density and higher specific leaf area. <i>Ecology Letters</i> , 2017, 20, 539-553.	3.0	348
637	Thinning increases drought tolerance of European beech: a case study on two forested slopes on opposite sides of a valley. <i>European Journal of Forest Research</i> , 2017, 136, 319-328.	1.1	33
638	Interspecific integration of trait dimensions at local scales: the plant phenotype as an integrated network. <i>Journal of Ecology</i> , 2017, 105, 1775-1790.	1.9	133
639	Rain exclusion affects cambial activity in adult maritime pines. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 303-310.	1.9	22

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640	Why wood density varies across communities. <i>Journal of Vegetation Science</i> , 2017, 28, 4-6.	1.1	7
641	Root traits are related to plant water-use among rangeland Mediterranean species. <i>Functional Ecology</i> , 2017, 31, 1700-1709.	1.7	71
642	Stomatal kinetics and photosynthetic gas exchange along a continuum of isohydric to anisohydric regulation of plant water status. <i>Plant, Cell and Environment</i> , 2017, 40, 1618-1628.	2.8	79
643	Capacitive water release and internal leaf water relocation delay drought-induced cavitation in African <i>Maesopsis eminii</i> . <i>Tree Physiology</i> , 2017, 37, 481-490.	1.4	22
644	Variation in species-level plant functional traits over wetland indicator status categories. <i>Ecology and Evolution</i> , 2017, 7, 3732-3744.	0.8	22
645	Climate trends in the wood anatomy of <i>Acacia sensu stricto</i> (Leguminosae: Mimosoideae). <i>Annals of Botany</i> , 2017, 119, 1249-1266.	1.4	12
646	Eucalypt plantation management in regions with water stress. <i>Southern Forests</i> , 2017, 79, 169-183.	0.2	57
647	Testing the hypothesis that biological modularity is shaped by adaptation: Xylem in the <i>Bursera simaruba</i> clade of tropical trees. <i>Evolution &amp; Development</i> , 2017, 19, 111-123.	1.1	13
648	Harvesting influences functional identity and diversity over time in forests of the northeastern U.S.A.. <i>Forest Ecology and Management</i> , 2017, 400, 93-99.	1.4	21
649	Bundle sheath extensions are linked to water relations but not to mechanical and structural properties of leaves. <i>Trees - Structure and Function</i> , 2017, 31, 1227-1237.	0.9	13
650	Topographic position, but not slope aspect, drives the dominance of functional strategies of tropical dry forest trees. <i>Environmental Research Letters</i> , 2017, 12, 085002.	2.2	47
651	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.	3.5	141
652	Minimum wood density of conifers portrays changes in early season precipitation at dry and cold Eurasian regions. <i>Trees - Structure and Function</i> , 2017, 31, 1423-1437.	0.9	25
653	Aged but withstanding: Maintenance of growth rates in old pines is not related to enhanced water-use efficiency. <i>Agricultural and Forest Meteorology</i> , 2017, 243, 43-54.	1.9	16
654	Tree water dynamics in a drying and warming world. <i>Plant, Cell and Environment</i> , 2017, 40, 1861-1873.	2.8	96
655	The interactive effect of root disease and climate on wood properties in half-sibling Douglas-fir families. <i>Forest Ecology and Management</i> , 2017, 392, 58-67.	1.4	5
656	How do functional traits syndromes covary with growth and reproductive performance in a water-stressed population of <i>Fagus sylvatica</i> ? <i>Oikos</i> , 2017, 126, 1472-1483.	1.2	22
657	Aridity drove the evolution of extreme embolism resistance and the radiation of a conifer genus <i>Callitris</i> . <i>New Phytologist</i> , 2017, 215, 97-112.	3.5	132

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658	The importance of hydraulic architecture to the distribution patterns of trees in a central Amazonian forest. <i>New Phytologist</i> , 2017, 215, 113-125.	3.5	94
659	Plant xylem hydraulics: What we understand, current research, and future challenges. <i>Journal of Integrative Plant Biology</i> , 2017, 59, 356-389.	4.1	301
660	Linking wood traits to vital rates in tropical rainforest trees: Insights from comparing sapling and adult wood. <i>American Journal of Botany</i> , 2017, 104, 1464-1473.	0.8	26
661	Drought-induced embolism in stems of sunflower: A comparison of in vivo micro-CT observations and destructive hydraulic measurements. <i>Plant Physiology and Biochemistry</i> , 2017, 120, 24-29.	2.8	33
662	Stress from cold and drought as drivers of functional trait spectra in North American angiosperm tree assemblages. <i>Ecology and Evolution</i> , 2017, 7, 7548-7559.	0.8	17
663	Quantifying the role of wood density in explaining interspecific variation in growth of tropical trees. <i>Global Ecology and Biogeography</i> , 2017, 26, 1078-1087.	2.7	18
664	Climate-driven trends in stem wood density of tree species in the eastern United States: Ecological impact and implications for national forest carbon assessments. <i>Global Ecology and Biogeography</i> , 2017, 26, 1153-1164.	2.7	20
665	Sugars from woody tissue photosynthesis reduce xylem vulnerability to cavitation. <i>New Phytologist</i> , 2017, 216, 720-727.	3.5	59
666	Effect of thermo-hydro-mechanical densification on microstructure and properties of poplar wood ( <i>Populus tomentosa</i> ). <i>Journal of Wood Science</i> , 2017, 63, 591-605.	0.9	50
667	Patterns of within-stem variations in wood specific gravity and water content for five temperate tree species. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	26
668	Comparison of wood physical and mechanical traits between major gymnosperm and angiosperm tree species in China. <i>Wood Science and Technology</i> , 2017, 51, 1405-1419.	1.4	10
669	When the same is not the same: phenotypic variation reveals different plant ecological strategies within species occurring in distinct Neotropical savanna habitats. <i>Plant Ecology</i> , 2017, 218, 1221-1231.	0.7	15
670	Contrasting outcomes of species- and community-level analyses of the temporal consistency of functional composition. <i>Ecology</i> , 2017, 98, 2273-2280.	1.5	21
671	Cold adaptation drives variability in needle structure and anatomy in <i>Pinus sylvestris</i> L. along a 1,900 km temperate-boreal transect. <i>Functional Ecology</i> , 2017, 31, 2212-2223.	1.7	33
672	Vascular development in very young conifer seedlings: Theoretical hydraulic capacities and potential resistance to embolism. <i>American Journal of Botany</i> , 2017, 104, 979-992.	0.8	20
673	Applying Functional Traits to Ecogeomorphic Processes in Riparian Ecosystems. <i>BioScience</i> , 2017, 67, 729-743.	2.2	43
674	New research perspectives from a novel approach to quantify tracheid wall thickness. <i>Tree Physiology</i> , 2017, 37, 976-983.	1.4	56
675	Wood density of silver fir reflects drought and cold stress across climatic and biogeographic gradients. <i>Dendrochronologia</i> , 2017, 45, 101-112.	1.0	23

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676	The role of plant water storage and hydraulic strategies in relation to soil moisture availability. <i>Plant and Soil</i> , 2017, 419, 503-521.	1.8	21
677	Variation in the incidence and severity of drought crack in three conifer species in North East Scotland. <i>Scandinavian Journal of Forest Research</i> , 2017, 32, 658-662.	0.5	5
678	A multi-proxy assessment of dieback causes in a Mediterranean oak species. <i>Tree Physiology</i> , 2017, 37, 617-631.	1.4	69
679	Changes in Community-Level Riparian Plant Traits over Inundation Gradients, Colorado River, Grand Canyon. <i>Wetlands</i> , 2017, 37, 635-646.	0.7	24
680	Conflicting demands on angiosperm xylem: Tradeoffs among storage, transport and biomechanics. <i>Plant, Cell and Environment</i> , 2017, 40, 897-913.	2.8	135
681	Vulnerability to xylem embolism as a major correlate of the environmental distribution of rain forest species on a tropical island. <i>Plant, Cell and Environment</i> , 2017, 40, 277-289.	2.8	67
682	Plant functional groups within a tropical forest exhibit different wood functional anatomy. <i>Functional Ecology</i> , 2017, 31, 582-591.	1.7	27
683	Wood traits related to size and life history of trees in a Panamanian rainforest. <i>New Phytologist</i> , 2017, 213, 170-180.	3.5	80
684	Regeneration patterns, environmental filtering and tree species coexistence in a temperate forest. <i>New Phytologist</i> , 2017, 213, 657-668.	3.5	41
685	Soil moisture causes dynamic adjustments to root reinforcement that reduce slope stability. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 803-813.	1.2	56
686	Community variation in wood density along a bioclimatic gradient on a hyper-diverse tropical island. <i>Journal of Vegetation Science</i> , 2017, 28, 19-33.	1.1	26
687	The functional role of xylem parenchyma cells and aquaporins during recovery from severe water stress. <i>Plant, Cell and Environment</i> , 2017, 40, 858-871.	2.8	125
688	Cambial injury in lodgepole pine ( <i>Pinus contorta</i> ): mountain pine beetle vs fire. <i>Tree Physiology</i> , 2017, 37, 1611-1621.	1.4	6
689	The Anatomy and Functioning of the Xylem in Oaks. <i>Tree Physiology</i> , 2017, , 261-302.	0.9	15
690	Retention of stored water enables tropical tree saplings to survive extreme drought conditions. <i>Tree Physiology</i> , 2017, 37, 469-480.	1.4	18
691	Sex determines xylem anatomy in a dioecious conifer: hydraulic consequences in a drier world. <i>Tree Physiology</i> , 2017, 37, 1493-1502.	1.4	32
692	OUP accepted manuscript. <i>Tree Physiology</i> , 2017, 37, 523-535.	1.4	36
693	Divergent Hydraulic Safety Strategies in Three Co-occurring Anacardiaceae Tree Species in a Chinese Savanna. <i>Frontiers in Plant Science</i> , 2016, 7, 2075.	1.7	30

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694	Effects of Drought on Xylem Anatomy and Water-Use Efficiency of Two Co-Occurring Pine Species. <i>Forests</i> , 2017, 8, 332.	0.9	49
695	Divergence in plant water-use strategies in semiarid woody species. <i>Functional Plant Biology</i> , 2017, 44, 1134.	1.1	15
696	How do Droughts and Wildfires Alter Seasonal Radial Growth in Mediterranean Aleppo Pine Forests?. <i>Tree-Ring Research</i> , 2018, 74, 1-14.	0.4	14
697	Hydraulic traits and tree-ring width in <i>Larix sibirica</i> Ledeb. as affected by summer drought and forest fragmentation in the Mongolian forest steppe. <i>Annals of Forest Science</i> , 2018, 75, 1.	0.8	22
698	Acclimation of branch and leaf hydraulics in adult <i>Fagus sylvatica</i> and <i>Picea abies</i> in a forest through-fall exclusion experiment. <i>Tree Physiology</i> , 2018, 38, 198-211.	1.4	37
699	Linking fine root morphology, hydraulic functioning and shade tolerance of trees. <i>Annals of Botany</i> , 2018, 122, 239-250.	1.4	14
700	Correlated evolution between climate and suites of traits along a fast-slow continuum in the radiation of <i>Protea</i> . <i>Ecology and Evolution</i> , 2018, 8, 1853-1866.	0.8	12
701	The links between leaf hydraulic vulnerability to drought and key aspects of leaf venation and xylem anatomy among 26 Australian woody angiosperms from contrasting climates. <i>Annals of Botany</i> , 2018, 122, 59-67.	1.4	25
702	Non-structural carbohydrate dynamics associated with drought-induced die-off in woody species of a shrubland community. <i>Annals of Botany</i> , 2018, 121, 1383-1396.	1.4	29
703	Traits and trade-offs in whole-tree hydraulic architecture along the vertical axis of <i>Eucalyptus grandis</i> . <i>Annals of Botany</i> , 2018, 121, 129-141.	1.4	40
704	Refinement of a theoretical trait space for North American trees via environmental filtering. <i>Ecological Monographs</i> , 2018, 88, 372-384.	2.4	2
705	Xylem dysfunction in fires: towards a hydraulic theory of plant responses to multiple disturbance stressors. <i>New Phytologist</i> , 2018, 217, 1391-1393.	3.5	21
706	Functional relationships between wood structure and vulnerability to xylem cavitation in races of <i>Eucalyptus globulus</i> differing in wood density. <i>Tree Physiology</i> , 2018, 38, 243-251.	1.4	29
707	Effect of thinning on the relationship between mean ring density and climate in black spruce ( <i>Picea</i> ) Tj ETQq1 1 0.784314 rgBT /Overl	1.2	2
708	Adaptations of white spruce to climate: strong intraspecific differences in cold hardiness linked to survival. <i>Ecology and Evolution</i> , 2018, 8, 1758-1768.	0.8	21
709	Hydraulic and mechanical dysfunction of Norway spruce sapwood due to extreme summer drought in Scandinavia. <i>Forest Ecology and Management</i> , 2018, 409, 527-540.	1.4	33
710	Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. <i>Journal of Biogeography</i> , 2018, 45, 895-916.	1.4	92
711	Robustness of xylem properties in conifers: analyses of tracheid and pit dimensions along elevational transects. <i>Tree Physiology</i> , 2018, 38, 212-222.	1.4	15



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712	Characterization of forest carbon stocks at the landscape scale in the Argentine Dry Chaco. <i>Forest Ecology and Management</i> , 2018, 424, 21-27.	1.4	12
713	Using a functional ecology approach to assist plant selection for restoration of Mediterranean woodlands. <i>Forest Ecology and Management</i> , 2018, 424, 1-10.	1.4	15
714	Insular woody daisies ( <i>Argyranthemum</i> , Asteraceae) are more resistant to drought-induced hydraulic failure than their herbaceous relatives. <i>Functional Ecology</i> , 2018, 32, 1467-1478.	1.7	46
716	Divergent hydraulic strategies to cope with freezing in co-occurring temperate tree species with special reference to root and stem pressure generation. <i>New Phytologist</i> , 2018, 219, 530-541.	3.5	26
717	Evidences of wider latewood in <i>Pinus sylvestris</i> from a forest-steppe of Southern Siberia. <i>Dendrochronologia</i> , 2018, 49, 1-8.	1.0	37
718	Is There Variability for Xylem Vulnerability to Cavitation in Walnut Tree Cultivars and Species ( <i>Juglans</i> )? <i>Tree-Ring Research</i> , 2018, 74, 1-14.	0.5	14
719	Variation in wood basic density within and between tree species and site conditions of exclosures in Tigray, northern Ethiopia. <i>Trees - Structure and Function</i> , 2018, 32, 967-983.	0.9	9
720	The effect of polyploidization on tree hydraulic functioning. <i>American Journal of Botany</i> , 2018, 105, 161-171.	0.8	28
721	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.	1.9	12
722	Xylem embolism refilling and resilience against drought-induced mortality in woody plants: processes and trade-offs. <i>Ecological Research</i> , 2018, 33, 839-855.	0.7	116
723	Dissimilar stem and leaf hydraulic traits suggest varying drought tolerance among co-occurring <i>Eucalyptus grandis</i> and <i>E. urophylla</i> clones. <i>Southern Forests</i> , 2018, 80, 175-184.	0.2	9
724	Is embolism resistance in plant xylem associated with quantity and characteristics of lignin?. <i>Trees - Structure and Function</i> , 2018, 32, 349-358.	0.9	58
725	Drought tolerance traits predict survival ratio of native tree species planted in a subtropical degraded hilly area in South China. <i>Forest Ecology and Management</i> , 2018, 418, 41-46.	1.4	17
726	The effect of climate on wood density: What provenance trials tell us?. <i>Forest Ecology and Management</i> , 2018, 408, 148-156.	1.4	71
727	Intraspecific variation in embolism resistance and stem anatomy across four sunflower ( <i>Helianthus annuus</i> L.) accessions. <i>Physiologia Plantarum</i> , 2018, 163, 59-72.	2.6	16
728	Axial xylem architecture of <i>Larix decidua</i> exposed to CO <sub>2</sub> enrichment and soil warming at the tree line. <i>Functional Ecology</i> , 2018, 32, 273-287.	1.7	27
729	Xylem hydraulic safety and construction costs determine tropical tree growth. <i>Plant, Cell and Environment</i> , 2018, 41, 548-562.	2.8	70
730	Impacts of long-term precipitation manipulation on hydraulic architecture and xylem anatomy of piñon and juniper in Southwest USA. <i>Plant, Cell and Environment</i> , 2018, 41, 421-435.	2.8	28

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731	The influence of a five-year nitrogen fertilization treatment on hydraulic architecture of <i>Pinus sylvestris</i> var. <i>mongolica</i> in a water-limited plantation of NE China. <i>Forest Ecology and Management</i> , 2018, 418, 15-22.	1.4	13
732	Post-fire effects in xylem hydraulics of <i>Picea abies</i> , <i>Pinus sylvestris</i> and <i>Fagus sylvatica</i> . <i>New Phytologist</i> , 2018, 217, 1484-1493.	3.5	41
733	Genetic variation of wood tracheid traits and their relationships with growth and wood density in clones of <i>Pinus tabuliformis</i> . <i>Journal of Forestry Research</i> , 2018, 29, 1021-1030.	1.7	4
734	Comparison of wood density in roots and stems of black spruce before and after commercial thinning. <i>Forest Ecology and Management</i> , 2018, 408, 94-102.	1.4	4
735	Species wood density and the location of planted seedlings drive early-stage seedling survival during tropical forest restoration. <i>Journal of Applied Ecology</i> , 2018, 55, 1009-1018.	1.9	30
736	Trait variation of a generalist tree species ( <i>Eremanthus erythropappus</i> , Asteraceae) in two adjacent mountain habitats: savanna and cloud forest. <i>Australian Journal of Botany</i> , 2018, 66, 640.	0.3	7
737	Geographic patterns and environmental determinants of gymnosperm species diversity in China. <i>Biodiversity Science</i> , 2018, 26, 1133-1146.	0.2	16
738	Functional trait and community phylogenetic analyses reveal environmental filtering as the major determinant of assembly of tropical forest tree communities in the Western Ghats biodiversity hotspot in India. <i>Forest Ecosystems</i> , 2018, 5, .	1.3	12
739	Rainforest trees respond to drought by modifying their hydraulic architecture. <i>Ecology and Evolution</i> , 2018, 8, 12479-12491.	0.8	34
740	Effects of biotic interactions on tropical tree performance depend on abiotic conditions. <i>Ecology</i> , 2018, 99, 2740-2750.	1.5	10
741	Northern forest tree populations are physiologically maladapted to drought. <i>Nature Communications</i> , 2018, 9, 5254.	5.8	78
742	Recovery of Functional Diversity Following Shifting Cultivation in Tropical Monsoon Forests. <i>Forests</i> , 2018, 9, 506.	0.9	6
743	Plant Functional Traits and Species Selection in Tropical Forest Restoration. <i>Tropical Conservation Science</i> , 2018, 11, 194008291878415.	0.6	13
744	Leaf Anatomy and Function. <i>Advances in Photosynthesis and Respiration</i> , 2018, , 97-139.	1.0	34
745	Biophysical dependences among functional wood traits. <i>Functional Ecology</i> , 2018, 32, 2652-2665.	1.7	11
746	Is xylem of angiosperm leaves less resistant to embolism than branches? Insights from microCT, hydraulics, and anatomy. <i>Journal of Experimental Botany</i> , 2018, 69, 5611-5623.	2.4	46
747	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.	1.4	28
748	A gap in the woods: Wood density knowledge as impediment to develop sustainable use in Atlantic Forest. <i>Forest Ecology and Management</i> , 2018, 424, 448-457.	1.4	18

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749	Lignin composition is related to xylem embolism resistance and leaf life span in trees in a tropical semiarid climate. <i>New Phytologist</i> , 2018, 219, 1252-1262.	3.5	35
750	Blue intensity from a tropical conifer's annual rings for climate reconstruction: An ecophysiological perspective. <i>Dendrochronologia</i> , 2018, 50, 10-22.	1.0	46
751	Xylem adjusts to maintain efficiency across a steep precipitation gradient in two coexisting generalist species. <i>Annals of Botany</i> , 2018, 122, 461-472.	1.4	18
752	Effects of early respacing on the density and microfibril angle of Sitka spruce wood. <i>Forestry</i> , 2018, 91, 307-319.	1.2	10
753	Coordinated plasticity maintains hydraulic safety in sunflower leaves. <i>Plant, Cell and Environment</i> , 2018, 41, 2567-2576.	2.8	66
754	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.	3.3	254
755	Geometry, Allometry and Biomechanics of Fern Leaf Petioles: Their Significance for the Evolution of Functional and Ecological Diversity Within the Pteridaceae. <i>Frontiers in Plant Science</i> , 2018, 9, 197.	1.7	18
756	Phloem Girdling of Norway Spruce Alters Quantity and Quality of Wood Formation in Roots Particularly Under Drought. <i>Frontiers in Plant Science</i> , 2018, 9, 392.	1.7	6
757	Evaluation of Morpho-Physiological Traits Adjustment of <i>Prosopis tamarugo</i> Under Long-Term Groundwater Depletion in the Hyper-Arid Atacama Desert. <i>Frontiers in Plant Science</i> , 2018, 9, 453.	1.7	6
758	Hydraulic anatomy affects genotypic variation in plant water use and shows differential organ specific plasticity to drought in <i>Sorghum bicolor</i> . <i>Environmental and Experimental Botany</i> , 2018, 156, 25-37.	2.0	17
759	Variation in traits related to water transport in <i>Nothofagus dombeyi</i> helps to explain its latitudinal distribution limit in the Chilean Andes. <i>Plant Ecology and Diversity</i> , 2018, 11, 307-317.	1.0	2
760	Water availability drives gradients of tree diversity, structure and functional traits in the Atlantic-Cerrado-Caatinga transition, Brazil. <i>Journal of Plant Ecology</i> , 2018, 11, 803-814.	1.2	41
761	Xylem anatomical adjustments prioritize hydraulic efficiency over safety as Norway spruce trees grow taller. <i>Tree Physiology</i> , 2018, 38, 1088-1097.	1.4	49
762	Functional xylem anatomy of aspen exhibits greater change due to insect defoliation than to drought. <i>Tree Physiology</i> , 2019, 39, 45-54.	1.4	14
763	The conifer-curve: fast prediction of hydraulic conductivity loss and vulnerability to cavitation. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	13
764	The changing world of drought resistance. A commentary on: "Embolism resistance in stems of herbaceous Brassicaceae and Asteraceae is linked to differences in woodiness and precipitation". <i>Annals of Botany</i> , 2019, 124, iv-v.	1.4	1
765	Coordination of leaf and stem traits in 25 species of Fagaceae from three biomes of East Asia. <i>Botany</i> , 2019, 97, 391-403.	0.5	9
766	The effect of environmental filtering on variation in functional diversity along a tropical elevational gradient. <i>Journal of Vegetation Science</i> , 2019, 30, 973-983.	1.1	34

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767	Tropical Tree Branch-Leaf Nutrient Scaling Relationships Vary With Sampling Location. <i>Frontiers in Plant Science</i> , 2019, 10, 877.	1.7	15
768	Land use legacies drive higher growth, lower wood density and enhanced climatic sensitivity in recently established forests. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107630.	1.9	29
769	A dynamic yet vulnerable pipeline: Integration and coordination of hydraulic traits across whole plants. <i>Plant, Cell and Environment</i> , 2019, 42, 2789-2807.	2.8	68
770	New insights into wood anatomy and function relationships: How Eucalyptus challenges what we already know. <i>Forest Ecology and Management</i> , 2019, 454, 117638.	1.4	20
771	Plant functional assembly is mediated by rainfall and soil conditions in a seasonally dry tropical forest. <i>Basic and Applied Ecology</i> , 2019, 40, 1-11.	1.2	36
772	Wood density, growth and mortality relationships of lianas on environmental gradients in fragmented forests of montane landscapes. <i>Journal of Vegetation Science</i> , 2019, 30, 1143-1152.	1.1	6
773	A heuristic classification of woody plants based on contrasting shade and drought strategies. <i>Tree Physiology</i> , 2019, 39, 767-781.	1.4	12
774	Increasing radial and latewood growth rates of <i>Larix cajanderi</i> Mayr. and <i>Pinus sylvestris</i> L. in the continuous permafrost zone in Central Yakutia (Russia). <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	17
775	White spruce wood quality for lumber products: priority traits and their enhancement through tree improvement. <i>Forestry</i> , 2019, , .	1.2	10
776	Genetic differentiation in functional traits among European sessile oak populations. <i>Tree Physiology</i> , 2019, 39, 1736-1749.	1.4	38
777	Ecophysiological Responses to Rainfall Variability in Grassland and Forests Along a Latitudinal Gradient in Italy. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	9
778	Embolism resistance in stems of herbaceous Brassicaceae and Asteraceae is linked to differences in woodiness and precipitation. <i>Annals of Botany</i> , 2019, 124, 1-14.	1.4	32
779	Wood Density Variations of Legume Trees in French Guiana along the Shade Tolerance Continuum: Heartwood Effects on Radial Patterns and Gradients. <i>Forests</i> , 2019, 10, 80.	0.9	24
780	Dry-forest tree species with large seeds and low stem specific density show greater survival under drought. <i>Journal of Tropical Ecology</i> , 2019, 35, 26-33.	0.5	6
781	Vulnerability to xylem embolism correlates to wood parenchyma fraction in angiosperms but not in gymnosperms. <i>Tree Physiology</i> , 2019, 39, 1675-1684.	1.4	38
782	Leaf economics and plant hydraulics drive leaf : wood area ratios. <i>New Phytologist</i> , 2019, 224, 1544-1556.	3.5	77
783	Fully exposed canopy tree and liana branches in a tropical forest differ in mechanical traits but are similar in hydraulic traits. <i>Tree Physiology</i> , 2019, 39, 1713-1724.	1.4	25
784	Stem and leaf traits as co-determinants of canopy water flux. <i>Plant Diversity</i> , 2019, 41, 258-265.	1.8	3

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785	Influence of timber grain distribution on orientation of saw cuts during application: Reference to heritage structures in Sri Lanka. <i>Case Studies in Construction Materials</i> , 2019, 11, e00237.	0.8	3
786	Variability in growth and biomass allocation and the phenotypic plasticity of seven <i>Prosopis pallida</i> populations in response to water availability. <i>Trees - Structure and Function</i> , 2019, 33, 1409-1422.	0.9	13
787	Effect of pruning, fertilization and pesticide injection on crown dieback in urban trees in Colombia: Analysis of factors involved. <i>Revista Facultad Nacional De Agronomia Medellin</i> , 2019, 72, 8883-8895.	0.2	3
788	Leaf water relations and structural traits of four temperate woody species occurring in serpentine and non-serpentine soil. <i>Ecological Research</i> , 2019, 34, 485-496.	0.7	8
789	Phylogeny Best Explains Latitudinal Patterns of Xylem Tissue Fractions for Woody Angiosperm Species Across China. <i>Frontiers in Plant Science</i> , 2019, 10, 556.	1.7	19
790	Water residence times in trees of a neotropical dry forest. <i>Trees - Structure and Function</i> , 2019, 33, 1225-1231.	0.9	2
793	Fire effects on tree physiology. <i>New Phytologist</i> , 2019, 223, 1728-1741.	3.5	94
794	Embolism recovery strategies and nocturnal water loss across species influenced by biogeographic origin. <i>Ecology and Evolution</i> , 2019, 9, 5348-5361.	0.8	25
795	Differences in morphological and physiological plasticity in two species of first-year conifer seedlings exposed to drought result in distinct survivorship patterns. <i>Tree Physiology</i> , 2019, 39, 1446-1460.	1.4	16
796	Canopy water status and photosynthesis of tropical trees are associated with trunk sapwood hydraulic properties. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 724-730.	2.8	8
797	Testing the divergent adaptation of two congeneric tree species on a rainfall gradient using eco-physio-morphological traits. <i>Biotropica</i> , 2019, 51, 364-377.	0.8	6
798	A systems biology view of wood formation in <i>Eucalyptus grandis</i> trees submitted to different potassium and water regimes. <i>New Phytologist</i> , 2019, 223, 766-782.	3.5	48
799	Precipitation has dominant influences on the variation of plant hydraulics of the native <i>Castanopsis fargesii</i> (Fagaceae) in subtropical China. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 83-91.	1.9	24
800	How does water flow from vessel to vessel? Further investigation of the tracheid bridge concept. <i>Tree Physiology</i> , 2019, 39, 1019-1031.	1.4	16
801	Coordination and trade-offs between leaf and stem hydraulic traits and stomatal regulation along a spectrum of isohydry to anisohydry. <i>Plant, Cell and Environment</i> , 2019, 42, 2245-2258.	2.8	41
802	Drought response strategies and hydraulic traits contribute to mechanistic understanding of plant dry-down to hydraulic failure. <i>Tree Physiology</i> , 2019, 39, 910-924.	1.4	96
803	Does fertilization explain the extraordinary hydraulic behaviour of apple trees?. <i>Journal of Experimental Botany</i> , 2019, 70, 1915-1925.	2.4	14
804	An ignored anatomical variable: pore shape shows a nonrandom variation pattern in xylem cross sections. <i>Nordic Journal of Botany</i> , 2019, 37, .	0.2	2

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806	Restoration of Threatened Species. , 2019, , 59-146.		0
807	Restoration of Threatened Species Habitat. , 2019, , 147-200.		0
808	Conservation-Oriented Restoration of Particular Systems. , 2019, , 269-305.		0
810	Fight or flight? Potential tradeoffs between drought defense and reproduction in conifers. <i>Tree Physiology</i> , 2019, 39, 1071-1085.	1.4	43
811	Similar hydraulic efficiency and safety across vesselless angiosperms and vessel-bearing species with scalariform perforation plates. <i>Journal of Experimental Botany</i> , 2019, 70, 3227-3240.	2.4	29
812	Design and improvement of a simple and easy-to-use gamma-ray densitometer for application in wood industry. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 138, 157-161.	2.5	6
813	Convergent xylem widening among organs across diverse woody seedlings. <i>New Phytologist</i> , 2019, 222, 1873-1882.	3.5	11
814	The Conceptâ€™s Major Principles. , 2019, , 13-58.		0
815	Conservation-Oriented Restoration Silvicultural Toolkit. , 2019, , 201-268.		0
817	On the hydraulic conductance of three woody Devonian plants. <i>IAWA Journal</i> , 2019, 40, 446-465.	2.7	7
818	Large volume vessels are vulnerable to water-stress-induced embolism in stems of poplar. <i>IAWA Journal</i> , 2019, 40, 4-S4.	2.7	49
819	Axial sampling height outperforms site as predictor of wood trait variation. <i>IAWA Journal</i> , 2019, 40, 191-S3.	2.7	16
820	Plant hydraulic architecture through time: lessons and questions on the evolution of vascular systems. <i>IAWA Journal</i> , 2019, 40, 387-420.	2.7	21
821	The Mechanism of Changes in Hydraulic Properties of <i>Populus euphratica</i> in Response to Drought Stress. <i>Forests</i> , 2019, 10, 904.	0.9	9
822	Functional organization of woody plant assemblages along precipitation and human disturbance gradients in a seasonally dry tropical forest. <i>Biotropica</i> , 2019, 51, 838-850.	0.8	17
824	Concluding Remarks and Prospects for the Proposed Strategy. , 2019, , 355-356.		0
825	Mitigating the risk of drought-induced stem cracks in conifers in a changing climate. <i>Scandinavian Journal of Forest Research</i> , 2019, 34, 667-672.	0.5	5
826	Hydrodynamic trait coordination and costâ€™benefit tradeâ€™offs throughout the isohydricâ€™anisohydric continuum in trees. <i>Ecohydrology</i> , 2019, 12, e2041.	1.1	17

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827	Similarities and differences in the balances between leaf, xylem and phloem structures in <i>Fraxinus ornus</i> along an environmental gradient. <i>Tree Physiology</i> , 2019, 39, 234-242.	1.4	19
828	Does acclimation in cavitation resistance due to mechanical perturbation support the pit area or conduit reinforcement hypotheses in <i>Phaseolus vulgaris</i> ?. <i>Physiologia Plantarum</i> , 2019, 167, 378-390.	2.6	4
829	Covariation between leaf hydraulics and biomechanics is driven by leaf density in Mediterranean shrubs. <i>Trees - Structure and Function</i> , 2019, 33, 507-519.	0.9	9
830	Predicting shifts in the functional composition of tropical forests under increased drought and $\text{CO}_2$ from trade-offs among plant hydraulic traits. <i>Ecology Letters</i> , 2019, 22, 67-77.	3.0	43
831	Plasticity of functional traits of tree of heaven is higher in exotic than in native habitats. <i>Trees - Structure and Function</i> , 2019, 33, 411-420.	0.9	9
832	The effects of intervessel pit characteristics on xylem hydraulic efficiency and photosynthesis in hemiepiphytic and non-hemiepiphytic <i>Ficus</i> species. <i>Physiologia Plantarum</i> , 2019, 167, 661-675.	2.6	8
833	Insights from <i>in vivo</i> micro-CT analysis: testing the hydraulic vulnerability segmentation in <i>Acer pseudoplatanus</i> and <i>Fagus sylvatica</i> seedlings. <i>New Phytologist</i> , 2019, 221, 1831-1842.	3.5	53
834	The potential of Mid-Infrared spectroscopy for prediction of wood density and vulnerability to embolism in woody angiosperms. <i>Tree Physiology</i> , 2019, 39, 503-510.	1.4	19
835	Couplings in cell differentiation kinetics mitigate air temperature influence on conifer wood anatomy. <i>Plant, Cell and Environment</i> , 2019, 42, 1222-1232.	2.8	80
836	Conifers but not angiosperms exhibit vulnerability segmentation between leaves and branches in a temperate forest. <i>Tree Physiology</i> , 2019, 39, 454-462.	1.4	16
837	An extensive suite of functional traits distinguishes Hawaiian wet and dry forests and enables prediction of species vital rates. <i>Functional Ecology</i> , 2019, 33, 712-734.	1.7	37
838	Homeostatic maintenance of nonstructural carbohydrates during the 2015-2016 El Niño drought across a tropical forest precipitation gradient. <i>Plant, Cell and Environment</i> , 2019, 42, 1705-1714.	2.8	29
839	Engineering Drought Resistance in Forest Trees. <i>Frontiers in Plant Science</i> , 2018, 9, 1875.	1.7	86
840	Ecological strategies of tree species in the laurel forest of Tenerife (Canary Islands): an insight into cloud forest natural dynamics using long-term monitoring data. <i>European Journal of Forest Research</i> , 2019, 138, 93-110.	1.1	5
841	Within-ring variability of wood structure and its relationship to drought sensitivity in Norway spruce trunks. <i>IAWA Journal</i> , 2019, 40, 288-310.	2.7	7
842	Metrics and proxies for stringency of regulation of plant water status (iso/anisohdry): a global data set reveals coordination and trade-offs among water transport traits. <i>Tree Physiology</i> , 2019, 39, 122-134.	1.4	93
843	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.	3.9	25
844	Extensive mismatches between species distributions and performance and their relationship to functional traits. <i>Ecology Letters</i> , 2020, 23, 33-44.	3.0	34

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845	Within-tree variability and sample storage effects of bordered pit membranes in xylem of <i>Acer pseudoplatanus</i> . <i>Trees - Structure and Function</i> , 2020, 34, 61-71.	0.9	31
846	Wood density in mangrove forests on the Brazilian Amazon coast. <i>Trees - Structure and Function</i> , 2020, 34, 51-60.	0.9	8
847	Effects of topography on tropical forest structure depend on climate context. <i>Journal of Ecology</i> , 2020, 108, 145-159.	1.9	62
848	The adjustment of <i>Prosopis tamarugo</i> hydraulic architecture traits has a homeostatic effect over its performance under descent of phreatic level in the Atacama Desert. <i>Trees - Structure and Function</i> , 2020, 34, 89-99.	0.9	6
849	Phenotypic plasticity and genetic adaptation of functional traits influences intra-specific variation in hydraulic efficiency and safety. <i>Tree Physiology</i> , 2020, 40, 215-229.	1.4	49
850	Lack of vulnerability segmentation among woody species in a diverse dry sclerophyll woodland community. <i>Functional Ecology</i> , 2020, 34, 777-787.	1.7	23
851	Xylem form and function under extreme nutrient limitation: an example from California's pygmy forest. <i>New Phytologist</i> , 2020, 226, 760-769.	3.5	9
852	A phenology-based approach to the analysis of conifers intra-annual xylem anatomy in water-limited environments. <i>Dendrochronologia</i> , 2020, 59, 125662.	1.0	19
853	Divergences in hydraulic conductance and anatomical traits of stems and leaves in three temperate tree species coping with drought, N addition and their interactions. <i>Tree Physiology</i> , 2020, 40, 230-244.	1.4	17
854	Physiological responses of germinant <i>Pinus palustris</i> and <i>P. taeda</i> seedlings to water stress and the significance of the grass-stage. <i>Forest Ecology and Management</i> , 2020, 458, 117647.	1.4	10
855	What causes the differences in cavitation resistance of two shrubs? Wood anatomical explanations and reliability testing of vulnerability curves. <i>Physiologia Plantarum</i> , 2020, 169, 156-168.	2.6	9
856	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.	4.2	25
857	Traits and trade-offs of wood anatomy between trunks and branches in tropical dry forest species. <i>Trees - Structure and Function</i> , 2020, 34, 497-505.	0.9	6
858	Wood allocation trade-offs between fiber wall, fiber lumen, and axial parenchyma drive drought resistance in neotropical trees. <i>Plant, Cell and Environment</i> , 2020, 43, 965-980.	2.8	56
859	The Possible Role of Non-Structural Carbohydrates in the Regulation of Tree Hydraulics. <i>International Journal of Molecular Sciences</i> , 2020, 21, 144.	1.8	76
860	Functional traits of leaves and photosynthetic stems of species from a sarcocaulous scrub in the southern Baja California Peninsula. <i>American Journal of Botany</i> , 2020, 107, 1410-1422.	0.8	13
861	Stomatal Sensitivity to Vapor Pressure Deficit and the Loss of Hydraulic Conductivity Are Coordinated in <i>Populus euphratica</i> , a Desert Phreatophyte Species. <i>Frontiers in Plant Science</i> , 2020, 11, 1248.	1.7	10
862	Abscisic Acid Mediates Drought and Salt Stress Responses in <i>Vitis vinifera</i> —A Review. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8648.	1.8	44



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863	Wood anatomy of <i>Ceiba speciosa</i> (A. St.-Hil.) Ravenna under urban pollution. <i>IAWA Journal</i> , 2020, 41, 30-47.	2.7	3
864	Changes in wood anatomical traits in Scots pine under different climate-change scenarios. <i>IAWA Journal</i> , 2020, 41, 202-218.	2.7	4
865	Contrasting responses of hydraulic traits between leaf and branch to 16-year nitrogen addition in a larch plantation. <i>Forest Ecology and Management</i> , 2020, 475, 118461.	1.4	11
866	Intraspecific Variation in Drought Response of Three Populations of <i>Cryptocarya alba</i> and <i>Persea lingue</i> , Two Native Species From Mediterranean Central Chile. <i>Frontiers in Plant Science</i> , 2020, 11, 1042.	1.7	5
867	Drought adaptation in populations of <i>Inga vera</i> subsp. <i>affinis</i> (DC.) T.D.Penn. that are exposed to extensive seasonal flooding. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2020, 271, 151678.	0.6	2
868	From Carlquist's ecological wood anatomy to Carlquist's Law: why comparative anatomy is crucial for functional xylem biology. <i>American Journal of Botany</i> , 2020, 107, 1328-1341.	0.8	25
869	CSR ecological strategies, functional traits and trade-offs of woody species in Amazon sandplain forest. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2020, 273, 151710.	0.6	9
870	Self-Densification of Highly Mesoporous Wood Structure into a Strong and Transparent Film. <i>Advanced Materials</i> , 2020, 32, e2003653.	11.1	99
871	Functional traits and ecosystem services in ecological restoration. <i>Restoration Ecology</i> , 2020, 28, 1372-1383.	1.4	94
872	Population Divergence along a Genetic Line of Least Resistance in the Tree Species <i>Eucalyptus globulus</i> . <i>Genes</i> , 2020, 11, 1095.	1.0	19
873	Disentangling the Effects of Genotype and Environment on Growth and Wood Features of <i>Balfourodendron riedelianum</i> Trees by Common Garden Experiments in Brazil. <i>Forests</i> , 2020, 11, 905.	0.9	3
874	Using Vegetation Guilds to Predict Bird Habitat Characteristics in Riparian Areas. <i>Wetlands</i> , 2020, 40, 1843-1862.	0.7	12
875	Application of resistance drilling to genetic studies of growth, wood basic density and bark thickness in <i>Eucalyptus globulus</i> . <i>Australian Forestry</i> , 2020, 83, 172-179.	0.3	15
876	Imperforate tracheary elements and vessels alleviate xylem tension under severe dehydration: insights from water release curves for excised twigs of three tree species. <i>American Journal of Botany</i> , 2020, 107, 1122-1135.	0.8	10
877	Topography and Traits Modulate Tree Performance and Drought Response in a Tropical Forest. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	17
878	The cambial response of Scots pine trees to girdling and water stress. <i>IAWA Journal</i> , 2020, 41, 159-185.	2.7	9
879	Links between climate, drought and minimum wood density in conifers. <i>IAWA Journal</i> , 2020, 41, 236-255.	2.7	9
880	Structural organization in palm stems of <i>Roystonea regia</i> and <i>Archontophoenix alexandrae</i> . <i>IAWA Journal</i> , 2020, 42, 64-80.	2.7	1

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881	How forest structure varies with elevation in old growth and secondary forest in Costa Rica. <i>Forest Ecology and Management</i> , 2020, 469, 118191.	1.4	26
882	How do social status and tree architecture influence radial growth, wood density and drought response in spontaneously established oak forests?. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	13
883	Long-Term Wood Micro-Density Variation in Alpine Forests at Central MÃ©xico and Their Spatial Links with Remotely Sensed Information. <i>Forests</i> , 2020, 11, 452.	0.9	8
884	Climatic factors controlling <i>Pinus sylvestris</i> radial growth along a transect of increasing continentality in southern Siberia. <i>Dendrochronologia</i> , 2020, 62, 125709.	1.0	22
885	Sap flow dynamics of xerophytic shrubs differ significantly among rainfall categories in the Loess Plateau of China. <i>Journal of Hydrology</i> , 2020, 585, 124815.	2.3	12
886	Leaf Traits of Drought Tolerance for 37 Shrub Species Originating from a Moisture Gradient. <i>Water (Switzerland)</i> , 2020, 12, 1626.	1.2	3
887	Climate warming differently affects <i>Larix decidua</i> ring formation at each end of a French Alps elevational gradient. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	16
888	Plant Functional Niches in Forests Across Four Climatic Zones: Exploring the Periodic Table of Niches Based on Plant Functional Traits. <i>Frontiers in Plant Science</i> , 2020, 11, 841.	1.7	9
889	Anatomical and physico-mechanical properties of <i>Acacia auriculiformis</i> wood in relation to age and soil in Benin, West Africa. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 745-756.	1.3	3
890	Functional Relationships of Wood Anatomical Traits in Norway Spruce. <i>Frontiers in Plant Science</i> , 2020, 11, 683.	1.7	26
891	Adaptive genetic variation to drought in a widely distributed conifer suggests a potential for increasing forest resilience in a drying climate. <i>New Phytologist</i> , 2020, 227, 427-439.	3.5	66
892	Xylem anatomy needs to change, so that conductivity can stay the same: xylem adjustments across elevation and latitude in <i>Nothofagus pumilio</i> . <i>Annals of Botany</i> , 2020, 125, 1101-1112.	1.4	21
893	Xylem vesselâ€œdiameterâ€œshootâ€œlength scaling: ecological significance of porosity types and other traits. <i>Ecological Monographs</i> , 2020, 90, e01410.	2.4	40
894	Functional Trait Variation Among and Within Species and Plant Functional Types in Mountainous Mediterranean Forests. <i>Frontiers in Plant Science</i> , 2020, 11, 212.	1.7	35
895	Could drought constrain woody encroachers in savannas?. <i>African Journal of Range and Forage Science</i> , 2020, 37, 19-29.	0.6	18
896	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.	2.4	23
897	How many trees and samples are adequate for estimating wood-specific gravity across different tropical forests?. <i>Trees - Structure and Function</i> , 2020, 34, 1383-1395.	0.9	2
898	Changes in hydraulic architecture across a water availability gradient for two contrasting commercial <i>Eucalyptus</i> clones. <i>Forest Ecology and Management</i> , 2020, 474, 118380.	1.4	11

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899	Functional anatomy and xylem cavitation resistance of three species of monocotyledons grown on flooded substrates. <i>Physiologia Plantarum</i> , 2020, 169, 571-585.	2.6	4
900	Long-term shifts in the functional composition and diversity of a tropical dry forest: a 30-yr study. <i>Ecological Monographs</i> , 2020, 90, e01408.	2.4	21
901	Assessment of resistance to xylem cavitation in cordilleran cypress using near-infrared spectroscopy. <i>Forest Ecology and Management</i> , 2020, 462, 117943.	1.4	3
902	Plant functional traits differ in adaptability and are predicted to be differentially affected by climate change. <i>Ecology and Evolution</i> , 2020, 10, 232-248.	0.8	71
903	Distinct xylem responses to acute vs prolonged drought in pine trees. <i>Tree Physiology</i> , 2020, 40, 605-620.	1.4	20
904	Climatic limits of temperate rainforest tree species are explained by xylem embolism resistance among angiosperms but not among conifers. <i>New Phytologist</i> , 2020, 226, 727-740.	3.5	29
905	Atmospheric and soil drought risks combined shape community assembly of trees in a tropical dry forest. <i>Journal of Ecology</i> , 2020, 108, 1347-1357.	1.9	19
906	The Role of Climate Niche, Geofloristic History, Habitat Preference, and Allometry on Wood Density within a California Plant Community. <i>Forests</i> , 2020, 11, 105.	0.9	7
907	Towards a new approach for dendroprovenancing pines in the Mediterranean Iberian Peninsula. <i>Dendrochronologia</i> , 2020, 60, 125688.	1.0	13
908	Two coastal Pacific evergreens, <i>Arbutus menziesii</i> , Pursh. and <i>Quercus agrifolia</i> , N�e show little water stress during California's exceptional drought. <i>PLoS ONE</i> , 2020, 15, e0230868.	1.1	6
909	Mean Annual Wood Density Variations of <i>Larix gmelinii</i> (Rupr.), <i>Quercus mongolica</i> Fisch. ex Ledeb., and <i>Pinus tabulaeformis</i> Carr. at Two Different Stem Heights. <i>Forests</i> , 2020, 11, 394.	0.9	2
910	Factors affecting survival of California juniper in its lower elevational range in the northwestern Sonoran Desert. <i>Plant Ecology</i> , 2020, 221, 501-514.	0.7	0
911	Identification of structural and chemical traits in <i>Juglans regia</i> associated with host plant preference of <i>Batocera horsfieldi</i> . <i>Agricultural and Forest Entomology</i> , 2020, 22, 193-202.	0.7	4
912	Root xylem in three woody angiosperm species is not more vulnerable to embolism than stem xylem. <i>Plant and Soil</i> , 2020, 450, 479-495.	1.8	26
913	Correlations between lignin content and structural robustness in plants revealed by X-ray ptychography. <i>Scientific Reports</i> , 2020, 10, 6023.	1.6	29
914	Tradeoff between storage capacity and embolism resistance in the xylem of temperate broadleaf tree species. <i>Tree Physiology</i> , 2020, 40, 1029-1042.	1.4	27
915	Do anatomical wood traits suggest adjustments in the hydraulic architecture of dominant species in Amazonian savannah?. <i>Plant Biosystems</i> , 2021, 155, 498-509.	0.8	2
916	Microanatomical traits track climate gradients for a dominant C4 grass species across the Great Plains, USA. <i>Annals of Botany</i> , 2021, 127, 451-459.	1.4	5

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917	Modern pollen rain predicts shifts in plant trait composition but not plant diversity along the Andesâ€™ Amazon elevational gradient. <i>Journal of Vegetation Science</i> , 2021, 32, e12925.	1.1	5
918	Responses of functional traits to seven-year nitrogen addition in two tree species: coordination of hydraulics, gas exchange and carbon reserves. <i>Tree Physiology</i> , 2021, 41, 190-205.	1.4	17
919	Wood density predicts mortality threshold for diverse trees. <i>New Phytologist</i> , 2021, 229, 3053-3057.	3.5	42
920	Adaptive trait syndromes along multiple economic spectra define cold and warm adapted ecotypes in a widely distributed foundation tree species. <i>Journal of Ecology</i> , 2021, 109, 1298-1318.	1.9	18
921	Topography strongly affects drought stress and xylem embolism resistance in woody plants from a karst forest in Southwest China. <i>Functional Ecology</i> , 2021, 35, 566-577.	1.7	21
922	Diverging functional strategies but high sensitivity to an extreme drought in tropical dry forests. <i>Ecology Letters</i> , 2021, 24, 451-463.	3.0	38
923	Drought severity, disturbance intensity and wood density of dominant and rare tree species in Brazilian seasonally dry semideciduous forests. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2021, 274, 151733.	0.6	3
924	Starch storage capacity of sapwood is related to dehydration avoidance during drought. <i>American Journal of Botany</i> , 2021, 108, 91-101.	0.8	15
925	An increase in xylem embolism resistance of grapevine leaves during the growing season is coordinated with stomatal regulation, turgor loss point and intervessel pit membranes. <i>New Phytologist</i> , 2021, 229, 1955-1969.	3.5	62
926	Hydraulic traits of Neotropical canopy liana and tree species across a broad range of wood density: implications for predicting drought mortality with models. <i>Tree Physiology</i> , 2021, 41, 24-34.	1.4	17
927	Shifts in fine root traits within and among species along a fine-scale hydrological gradient. <i>Annals of Botany</i> , 2021, 127, 473-481.	1.4	9
928	Modeling fire effects on plants: From organs to ecosystems. , 2021, , 383-421.		3
929	Vulnerability to xylem cavitation of <i>Hakea</i> species (Proteaceae) from a range of biomes and life histories predicted by climatic niche. <i>Annals of Botany</i> , 2021, 127, 909-918.	1.4	4
930	Effects of Fertilization on Wood Formation in Naturally Regenerated Juvenile Silver Birch in a Norway Spruce Stand in South Sweden. <i>Forests</i> , 2021, 12, 415.	0.9	5
932	Variation in Xylem Hydraulic Structure and Function of Two Mangrove Species across a Latitudinal Gradient in Eastern Australia. <i>Water (Switzerland)</i> , 2021, 13, 850.	1.2	7
933	Divergence of stem biomechanics and hydraulics between <i>Bauhinia</i> lianas and trees. <i>AoB PLANTS</i> , 2021, 13, plab016.	1.2	7
934	Landâ€™use legacies influence tree waterâ€™use efficiency and nitrogen availability in recently established European forests. <i>Functional Ecology</i> , 2021, 35, 1325-1340.	1.7	7
935	Hydraulic failure and tree size linked with canopy dieâ€™back in eucalypt forest during extreme drought. <i>New Phytologist</i> , 2021, 230, 1354-1365.	3.5	70

#	ARTICLE	IF	CITATIONS
936	Delayed effect of drought on xylem vulnerability to embolism in <i>Fagus sylvatica</i> . Canadian Journal of Forest Research, 2021, 51, 622-626.	0.8	7
937	Changes in rainfall patterns enhance the interrelationships between climate and wood traits of eucalyptus. Forest Ecology and Management, 2021, 485, 118959.	1.4	8
938	Wood Anatomical Traits Reveal Different Structure of Peat Bog and Lowland Populations of <i>Pinus sylvestris</i> L. in the Carpathian Region. Forests, 2021, 12, 494.	0.9	5
939	Climate-driven adaptive responses to drought of dominant tree species from Patagonia. New Forests, 2022, 53, 57-80.	0.7	4
940	Wood hydrosystem of three cultivars of <i>Vitis vinifera</i> L. is modified in response to contrasting soils. Plant and Soil, 2021, 463, 573-588.	1.8	3
941	Wood density variation in naturally regenerated stands of <i>Pinus ponderosa</i> in northern Arizona, USA. Canadian Journal of Forest Research, 2021, 51, 583-594.	0.8	3
943	Limited plasticity in embolism resistance in response to light in leaves and stems in species with considerable vulnerability segmentation. Physiologia Plantarum, 2021, 172, 2142-2152.	2.6	9
944	Allocation of Wood Density in European Oak ( <i>Quercus robur</i> L.) Trees Grown under a Canopy of Scots Pine. Forests, 2021, 12, 712.	0.9	6
945	Physiological and anatomical responses to drought stress differ between two larch species and their hybrid. Trees - Structure and Function, 2021, 35, 1467-1484.	0.9	13
946	Acoustic Vulnerability, Hydraulic Capacitance, and Xylem Anatomy Determine Drought Response of Small Grain Cereals. Frontiers in Plant Science, 2021, 12, 599824.	1.7	3
947	Early rooting and flooding tolerance in cuttings from a <i>Populus deltoides</i> full-sib family under greenhouse conditions. Canadian Journal of Forest Research, 2021, 51, 732-741.	0.8	0
948	Difference in hydraulic resistance between planted forest and naturally regenerated forest and its implications for ecosystem restoration in subtropical karst landscapes. Journal of Hydrology, 2021, 596, 126093.	2.3	10
949	Seasonal water availability drives trait variation in isolated Basin and Range <i>Pinus ponderosa</i> . Forest Ecology and Management, 2021, 488, 119022.	1.4	4
950	Living on the edge: A continental-scale assessment of forest vulnerability to drought. Global Change Biology, 2021, 27, 3620-3641.	4.2	50
951	Soil Moisture Levels Affect the Anatomy and Mechanical Properties of Basil Stems ( <i>Ocimum basilicum</i> )	1.6	4
952	Functional differentiation among 12 dipterocarp species under contrasting water availabilities in Northeast Thailand. Botany, 2021, 99, 321-335.	0.5	1
953	When Density Matters: The Spatial Balance between Early and Latewood. Forests, 2021, 12, 818.	0.9	6
954	Models to estimate the above and below ground carbon stocks from a subtropical scrub forest of Pakistan. Global Ecology and Conservation, 2021, 27, e01539.	1.0	8

#	ARTICLE	IF	CITATIONS
955	Xylem Parenchyma's Role and Relevance in Wood Functioning in Trees. <i>Plants</i> , 2021, 10, 1247.	1.6	31
957	Chilling rather than photoperiod controls budburst for gymnosperm species in subtropical China. <i>Journal of Plant Ecology</i> , 2022, 15, 100-110.	1.2	6
958	Tree hazards compounded by successive climate extremes after masting in a small endemic tree, <i>Distylium lepidotum</i> , on subtropical islands in Japan. <i>Global Change Biology</i> , 2021, 27, 5094-5108.	4.2	9
959	Parenchyma underlies the interspecific variation of xylem hydraulics and carbon storage across 15 woody species on a subtropical island in Japan. <i>Tree Physiology</i> , 2022, 42, 337-350.	1.4	12
960	Behavior of wood basic density according to environmental variables. <i>Journal of Forestry Research</i> , 0, , 1.	1.7	2
961	Bidirectional drought-related canopy dynamics across pantropical forests: a satellite-based statistical analysis. <i>Remote Sensing in Ecology and Conservation</i> , 2022, 8, 72-91.	2.2	6
962	Hydraulic-stomatal coordination in tree seedlings: tight correlation across environments and ontogeny in <i>Acer pseudoplatanus</i> . <i>New Phytologist</i> , 2021, 232, 1297-1310.	3.5	5
963	Climate and species stress resistance modulate the higher survival of large seedlings in forest restorations worldwide. <i>Ecological Applications</i> , 2021, 31, e02394.	1.8	32
964	Coordination of plant hydraulic and photosynthetic traits: confronting optimality theory with field measurements. <i>New Phytologist</i> , 2021, 232, 1286-1296.	3.5	26
965	Xylem biomechanics, water storage, and density within roots and shoots of an angiosperm tree species. <i>Journal of Experimental Botany</i> , 2021, 72, 7984-7997.	2.4	8
966	Living on the edge: Legacy of water availability on <i>Tetraclinis articulata</i> secondary growth under semiarid conditions in Morocco. <i>Dendrochronologia</i> , 2021, 68, 125853.	1.0	5
967	Trade-offs among transport, support, and storage in xylem from shrubs in a semiarid chaparral environment tested with structural equation modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	23
968	Divergent stem hydraulic strategies of <i>Caragana korshinskii</i> resprouts following a disturbance. <i>Tree Physiology</i> , 2022, 42, 325-336.	1.4	3
969	Ready for Screening: Fast Assessable Hydraulic and Anatomical Proxies for Vulnerability to Cavitation of Young Conifer Sapwood. <i>Forests</i> , 2021, 12, 1104.	0.9	4
970	Plant functional types broadly describe water use strategies in the Caatinga, a seasonally dry tropical forest in northeast Brazil. <i>Ecology and Evolution</i> , 2021, 11, 11808-11825.	0.8	12
971	Leaf habits and their relationship with leaf and wood traits in tropical dry forests. <i>Trees - Structure and Function</i> , 2022, 36, 7-24.	0.9	7
972	The Role of Recent (1985-2014) Patterns of Land Abandonment and Environmental Factors in the Establishment and Growth of Secondary Forests in the Iberian Peninsula. <i>Land</i> , 2021, 10, 817.	1.2	4
973	From cells to stems: the effects of primary vascular construction on drought-induced embolism in fern rhizomes. <i>New Phytologist</i> , 2021, 232, 2238-2253.	3.5	7

#	ARTICLE	IF	CITATIONS
974	Differences in Branch Hydraulic Architecture Related to the Aridity of Growing Sites and Seed Sources of Coastal Douglas-fir Saplings. <i>Tree Physiology</i> , 2021, , .	1.4	2
975	Local hydrological gradients structure high intraspecific variability in plant hydraulic traits in two dominant central Amazonian tree species. <i>Journal of Experimental Botany</i> , 2022, 73, 939-952.	2.4	15
976	Phenology of high- and low-density wood deciduous species responds differently to water supply in tropical semiarid regions. <i>Journal of Arid Environments</i> , 2021, 193, 104594.	1.2	13
977	Wood quality trait associations with climate: Room for improvement in two northern commercial tree species?. <i>Forest Ecology and Management</i> , 2021, 497, 119492.	1.4	7
978	Disentangling the role of sex dimorphism and forest structure as drivers of growth and wood density in expanding <i>Juniperus thurifera</i> L. woodlands. <i>Annals of Forest Science</i> , 2021, 78, 1.	0.8	5
979	Warming menaces high-altitude Himalayan birch forests: Evidence from cambial phenology and wood anatomy. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108577.	1.9	6
980	Functional traits as indicators of ecological strategies of savanna woody species under contrasting substrate conditions. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2021, 284, 151925.	0.6	5
981	Modelling the long-term dynamics of tropical forests: From leaf traits to whole-tree growth patterns. <i>Ecological Modelling</i> , 2021, 460, 109735.	1.2	4
982	Tree-ring density and carbon isotope composition are early-warning signals of drought-induced mortality in the drought tolerant Canary Island pine. <i>Agricultural and Forest Meteorology</i> , 2021, 310, 108634.	1.9	19
983	Contrasting life-history traits of black spruce and jack pine influence their physiological response to drought and growth recovery in northeastern boreal Canada. <i>Science of the Total Environment</i> , 2021, 794, 148514.	3.9	11
984	Evaluation of family seed sources and clones of <i>Casuarina junghuhniana</i> and <i>C. cunninghamiana</i> , for growth and wood traits at two contrasting sites in southern India. <i>Forest Ecology and Management</i> , 2021, 501, 119669.	1.4	2
985	Tree ring anatomy indices of <i>Pinus tabuliformis</i> revealed the shifted dominant climate factor influencing potential hydraulic function in western Qinling Mountains. <i>Dendrochronologia</i> , 2021, 70, 125881.	1.0	6
986	From tree to architecture: how functional morphology of arborescence connects plant biology, evolution and physics. <i>Palaeobiodiversity and Palaeoenvironments</i> , 2021, 101, 267-284.	0.6	2
987	Effects of Salt Stress on Photosynthesis and Water in Plants. <i>Botanical Research</i> , 2021, 10, 231-238.	0.0	0
988	Pull, Push and Evaporate: The Role of Surfaces in Plant Water Transport. , 2009, , 141-159.		3
989	<i>Populus</i> Responses to Abiotic Stress. , 2010, , 225-246.		17
990	Hydraulics of Vascular Water Transport. <i>Signaling and Communication in Plants</i> , 2011, , 303-327.	0.5	37
991	Above Ground Processes: Anticipating Climate Change Influences. <i>Ecological Studies</i> , 2010, , 31-64.	0.4	5

#	ARTICLE	IF	CITATIONS
992	Ecophysiology of Secondary Succession in Tropical Moist Forest: Scaling from Individual Traits to Whole-Plant Performance. <i>Tree Physiology</i> , 2011, , 429-454.	0.9	3
993	Functional traits indicate faster resource acquisition for alien herbs than native shrubs in an urban Mediterranean shrubland. <i>Biological Invasions</i> , 2020, 22, 2699-2712.	1.2	9
994	Hydraulic Properties of the Xylem in Plants of Different Photosynthetic Pathways. , 2005, , 517-533.		4
995	Physiological and anatomical changes in tomato roots in response to low water stress. <i>Scientia Horticulturae</i> , 2020, 265, 109208.	1.7	26
997	Water transport in plants obeys Murray's law. , 0, .		1
998	Life histories, ecological tolerance limits, and the evolution of geographic range size in <i>Eucalyptus</i> (Myrtaceae). <i>Australian Journal of Botany</i> , 2005, 53, 501.	0.3	8
999	Intervessel pit membrane thickness best explains variation in embolism resistance amongst stems of <i>Arabidopsis thaliana</i> accessions. <i>Annals of Botany</i> , 2021, 128, 171-182.	1.4	23
1000	OUP accepted manuscript. , 2019, 7, coz012.		10
1001	Interclonal variation, coordination, and trade-offs between hydraulic conductance and gas exchange in <i>Pinus radiata</i> : consequences on plant growth and wood density. <i>Journal of Experimental Botany</i> , 2021, 72, 2419-2433.	2.4	3
1003	A phylogenetic and functional perspective on the origin and evolutionary shifts of growth ring anatomical markers in seed plants. <i>Biological Reviews</i> , 2021, 96, 842-876.	4.7	9
1004	Role of tree size in moist tropical forest carbon cycling and water deficit responses. <i>New Phytologist</i> , 2018, 219, 947-958.	3.5	73
1005	Prediction of hydraulic conductivity loss from relative water loss: new insights into water storage of tree stems and branches. <i>Physiologia Plantarum</i> , 2019, 165, 843-854.	2.6	41
1006	Geological Substrates Shape Tree Species and Trait Distributions in African Moist Forests. <i>PLoS ONE</i> , 2012, 7, e42381.	1.1	75
1007	A Microfluidic Pump/Valve Inspired by Xylem Embolism and Transpiration in Plants. <i>PLoS ONE</i> , 2012, 7, e50320.	1.1	35
1008	Functional Traits and Water Transport Strategies in Lowland Tropical Rainforest Trees. <i>PLoS ONE</i> , 2015, 10, e0130799.	1.1	34
1009	Functional Resilience against Climate-Driven Extinctions – Comparing the Functional Diversity of European and North American Tree Floras. <i>PLoS ONE</i> , 2016, 11, e0148607.	1.1	19
1010	Demography of Symbiotic Nitrogen-Fixing Trees Explains Their Rarity and Successional Decline in Temperate Forests in the United States. <i>PLoS ONE</i> , 2016, 11, e0164522.	1.1	14
1011	The water relations and xylem attributes of albino redwood shoots ( <i>Sequoia sempervirens</i> (D. Don.) Tj ETQq1 1 0.784314 rgBT /Over	1.1	8



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1012	Variation in tracheid cross-sectional dimensions and wood viscoelasticity extent and control methods. <i>Dissertationes Forestales</i> , 2010, 2010, .	0.1	1
1013	A physical analysis of sap flow dynamics in trees. <i>Dissertationes Forestales</i> , 2005, 2005, .	0.1	4
1014	The effects of thinning and fertilisation on wood and tracheid properties of Norway spruce ( <i>Picea</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	9
1015	Agrupaci3n funcional de especies vegetales para la restauraci3n ecol3gica de ecosistemas de monta±a, BogotA, Colombia. <i>Colombia Forestal</i> , 2018, 21, 5.	0.5	6
1017	EFFECT OF PROVENANCE AND CLIMATE ON XYLEM ANATOMY OF HALOXYLON AMMODENDRON (C. A. MEY) BUNGE IN THE GURBANTUNGGUT DESERT, CHINA. <i>Applied Ecology and Environmental Research</i> , 2017, 15, 1309-1321.	0.2	2
1018	Effects of elevated CO<inf>2</inf> concentration on root and needle anatomy and physiological functions in <i>Pinus koraiensis</i> seedlings. <i>Chinese Journal of Plant Ecology</i> , 2016, 40, 60-68.	0.3	1
1019	Optimal stomatal behavior theory for simulating stomatal conductance. <i>Chinese Journal of Plant Ecology</i> , 2016, 40, 631-642.	0.3	5
1020	Dynamics of cavitation in a Douglas-fir tree-ring: transition-wood, the lord of the ring?. <i>The Journal of Plant Hydraulics</i> , 0, 1, e005.	1.0	30
1021	Fine-scale mapping of sapwood anatomical properties reveals plasticity in hydraulics during water deficit. <i>The Journal of Plant Hydraulics</i> , 0, 2, e003.	1.0	5
1022	Understanding the genetic bases of adaptation to soil water deficit in trees through the examination of water use efficiency and cavitation resistance: maritime pine as a case study. <i>The Journal of Plant Hydraulics</i> , 0, 3, e008.	1.0	17
1023	AnatomAa, Añdices fAasicos e hidrAulicos de la madera de <i>Gliricidia sepium</i> (Jacq.) Steud.. <i>Madera Bosques</i> , 2009, 15, 71-91.	0.1	3
1024	Environmental Drivers of Water Use for Caatinga Woody Plant Species: Combining Remote Sensing Phenology and Sap Flow Measurements. <i>Remote Sensing</i> , 2021, 13, 75.	1.8	17
1025	Response of anatomy and hydraulic characteristics of xylem stem of &lt;l&gt;Populus euphratica&lt;/l&gt; Oliv. to drought stress. <i>Chinese Journal of Eco-Agriculture</i> , 2012, 20, 1059-1065.	0.1	5
1026	Tree growth, wood and bark water content of 28 Amazonian tree species in response to variations in rainfall and wood density. <i>IForest</i> , 2016, 9, 445-451.	0.5	20
1027	Phenotypic variation of basic wood density in <i>Pinus ponderosa</i> plus trees. <i>Bosque</i> , 2011, 32, 221-226.	0.1	5
1028	Variability in Wood Density and Wood Fibre Characterization of Woody Species and Their Possible Utility in Northeastern Mexico. <i>American Journal of Plant Sciences</i> , 2016, 07, 1139-1150.	0.3	6
1029	Wood Density of Ten Native Trees and Shrubs and Its Possible Relation with a Few Wood Chemical Compositions. <i>American Journal of Plant Sciences</i> , 2016, 07, 1192-1197.	0.3	7
1033	The Functional Ecology and Diversity of Tropical Tree Assemblages through Space and Time: From Local to Regional and from Traits to Transcriptomes. <i>ISRN Forestry</i> , 2012, 2012, 1-16.	1.0	19

#	ARTICLE	IF	CITATIONS
1034	Wood density and anatomy of three Eucalyptus species: implications for hydraulic conductivity. Forest Systems, 2017, 26, e010.	0.1	13
1035	Use of physiological traits in tree breeding for improved yield in drought-prone environments. The case of Eucalyptus globulus. Investigacion Agraria Sistemas Y Recursos Forestales, 2005, 14, 383.	0.4	33
1036	The role of wood anatomical traits in the coexistence of oak species along an environmental gradient. AoB PLANTS, 2021, 13, plab066.	1.2	9
1037	Direct and Indirect Effects of Environmental Limitations on White Spruce Xylem Anatomy at Treeline. Frontiers in Plant Science, 2021, 12, 748055.	1.7	0
1038	Plant Trait Assembly in Species-Rich Forests at Varying Elevations in the Northwest Andes of Colombia. Land, 2021, 10, 1057.	1.2	3
1039	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. New Phytologist, 2021, 232, 973-1122.	3.5	216
1040	Functional Traits of Terrestrial Plants in the Intertidal: A Review on Mangrove Trees. Biological Bulletin, 2021, 241, 123-139.	0.7	12
1042	Pit and tracheid anatomy explain hydraulic safety but not hydraulic efficiency of 28 conifer species. Journal of Experimental Botany, 2022, 73, 1033-1048.	2.4	22
1043	Changes in wood anatomy linked to canopy height in a Hawaiian wet montane forest along a substrate age gradient. Tropics, 2005, 14, 173-178.	0.2	0
1044	The soil-plant-atmosphere continuous as an integrating model of forest ecophysiology. Investigacion Agraria Sistemas Y Recursos Forestales, 2005, 14, 358.	0.4	3
1047	Morphological and anatomical response of Acacia ehrenbergiana Hayne and Acacia tortilis (Forssk) Haynes subspp. raddiana seedlings to induced water stress. African Journal of Biotechnology, 2012, 11, .	0.3	4
1048	Multiyear impacts of partial throughfall exclusion on Buxus sempervirens in a Mediterranean forest. Forest Systems, 2013, 22, 202.	0.1	2
1049	Scope and Extent of Wood Biology. , 2014, , 1-19.		0
1050	In vitro Culture: A Tool for Phytoremediation Purposes. , 2014, , 46-65.		0
1051	Scope and Extent of Wood Biology. , 2016, , 519-541.		0
1052	Functional Traits and Plasticity of Plants. Books in Soils, Plants, and the Environment, 2016, , 487-505.	0.1	0
1053	Shrinkage and Static Bending Properties of Juniperus scopulorum from the Rocky Mountains. Forest Products Journal, 2017, 67, 39-43.	0.2	0
1055	Fonctionnement Hydrique du Baobab (Adansonia digitata L.) en Moyenne et Haute Casamance (SÃ©nÃ©gal). European Scientific Journal, 2019, 15, .	0.0	1

#	ARTICLE	IF	CITATIONS
1056	La arquitectura hidráulica de las plantas vasculares terrestres, una revisión. Madera Bosques, 2019, 25, .	0.1	1
1061	Aproximación al uso de rasgos funcionales y gradientes ambientales para seis especies del arbolado urbano de Bogotá. Revista Facultad De Ciencias Básicas, 2020, 15, 17-33.	0.2	0
1062	Reproductive water supply is prioritized during drought in tomato. Plant, Cell and Environment, 2022, 45, 69-79.	2.8	22
1063	Anatomical and blue intensity methods to determine wood density converge in contributing to explain different distributions of three palaeotropical pine species. IAWA Journal, 2021, -1, 1-16.	0.5	0
1065	Tarıf ve tanımlama de Doğu ve Plantasyon Mevcutlarında Yeni Bir Tür (Fraxinus angustifolia Vahl.) Türlerinin Bazı Odun Özellikleri. Düzce Üniversitesi Bilim Ve Teknoloji Dergisi, 0, , 1236-1249.	0.2	0
1066	A whole-plant economics spectrum including bark functional traits for 59 subtropical woody plant species. Journal of Ecology, 2022, 110, 248-261.	1.9	27
1069	Global analysis of trait-trait relationships within and between species. New Phytologist, 2022, 233, 1643-1656.	3.5	24
1070	Root traits reveal safety and efficiency differences in grasses and shrubs exposed to different fire regimes. Functional Ecology, 2022, 36, 368-379.	1.7	5
1072	Do six-year-old Eucalyptus clones maintain uniformity in growth and wood quality in different soils?. Plant and Soil, 2022, 471, 261-272.	1.8	3
1073	Selecting tree species with high transpiration and drought avoidance to optimise runoff reduction in passive irrigation systems. Science of the Total Environment, 2022, 812, 151466.	3.9	6
1074	Wood density relates negatively to maximum plant height across major angiosperm and gymnosperm orders. American Journal of Botany, 2022, 109, 250-258.	0.8	9
1075	Verification of our empirical understanding of the physiology and ecology of two contrasting plantation species using a trait database. PLoS ONE, 2021, 16, e0254599.	1.1	5
1076	Growth differential related to wood structure and function of Eucalyptus spp. clones adapted to seasonal drought stress. Forest Systems, 2021, 30, e014-e014.	0.1	1
1078	Differences of the stem vascular system across populations of two tropical species under contrasting water conditions. IAWA Journal, 2021, -1, 1-18.	0.5	1
1079	Xylem embolism spread is largely prevented by interconduit pit membranes until the majority of conduits are gas-filled. Plant, Cell and Environment, 2022, 45, 1204-1215.	2.8	18
1080	Long-Term Wood Micro-Density Variation in Alpine Forests at Central Mexico and Their Spatial Links with Remotely Sensed Information. , 0, , .		1
1081	Differentiation in seed mass and seedling biomass allocation in Prosopis laevigata throughout its distribution range in Mexico is associated to water availability. Botanical Sciences, 2022, 100, 274-290.	0.3	1
1083	A Comparative Analysis of the Hydraulic Strategies of Non-Native and Native Perennial Forbs in Arid and Semiarid Areas of China. Forests, 2022, 13, 193.	0.9	0

#	ARTICLE	IF	CITATIONS
1084	The wood anatomy of Sapindales: diversity and evolution of wood characters. <i>Revista Brasileira De Botanica</i> , 2022, 45, 283-340.	0.5	6
1085	Strong Environmental Filtering Based on Hydraulic Traits Occurring in the Lower Water Availability of Temperate Forest Communities. <i>Frontiers in Plant Science</i> , 2021, 12, 698878.	1.7	2
1086	Hydraulic tradeoffs underlie local variation in tropical forest functional diversity and sensitivity to drought. <i>New Phytologist</i> , 2022, 234, 50-63.	3.5	10
1087	Does maximization of net carbon profit enable the prediction of vegetation behaviour in savanna sites along a precipitation gradient?. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 525-550.	1.9	3
1088	A test of the fast-slow plant economy hypothesis in a subtropical rain forest. <i>Plant Ecology and Diversity</i> , 2021, 14, 267-277.	1.0	0
1089	Wood density and hydraulic traits influence species' growth response to drought across biomes. <i>Global Change Biology</i> , 2022, 28, 3871-3882.	4.2	34
1090	Non-periodic grassland restoration management can promote native woody shrub encroachment. <i>Restoration Ecology</i> , 0, , .	1.4	1
1091	Variations in leaf and stem traits across two elevations in subtropical forests. <i>Functional Plant Biology</i> , 2022, 49, 319-332.	1.1	2
1092	Differences in wood anatomy and chemistry of an <i>E. urophylla</i> clone explained by site climate conditions. <i>Canadian Journal of Forest Research</i> , 0, , .	0.8	0
1093	Competition for water and species coexistence in phenologically structured annual plant communities. <i>Ecology Letters</i> , 2022, 25, 1110-1125.	3.0	7
1094	Short-Term Effects of Droughts and Cold Winters on the Growth of Scots Pine at Coastal Sand Dunes around the South Baltic Sea. <i>Forests</i> , 2022, 13, 477.	0.9	1
1095	Integrating genomic information and productivity and climate-adaptability traits into a regional white spruce breeding program. <i>PLoS ONE</i> , 2022, 17, e0264549.	1.1	7
1096	Ignoring variation in wood density drives substantial bias in biomass estimates across spatial scales. <i>Environmental Research Letters</i> , 2022, 17, 054002.	2.2	2
1097	Annual Carbon Sequestration Patterns in Trees: A Case Study from Scots Pine Monospecific Stands and Mixed Stands with Sessile Oak in Central Poland. <i>Forests</i> , 2022, 13, 582.	0.9	3
1098	The application of dendrometers to alpine dwarf shrubs - a case study to investigate stem growth responses to environmental conditions. <i>Biogeosciences</i> , 2022, 19, 1933-1958.	1.3	4
1099	Expanding the wood anatomy economics spectrum: the correlates of vessel element lengths and pit apertures sizes in tropical forest trees. <i>Plant Ecology and Diversity</i> , 2021, 14, 279-291.	1.0	2
1100	Wood Nutrient-Water-Density Linkages Are Influenced by Both Species and Environment. <i>Frontiers in Plant Science</i> , 2022, 13, 778403.	1.7	4
1101	Tropical Plant Species Living Under P Limitation Show Signs of Greater Resistance to Drought. <i>Geophysical Research Letters</i> , 2022, 49, , .	1.5	2

#	ARTICLE	IF	CITATIONS
1102	Tracheid and Pit Dimensions Hardly Vary in the Xylem of <i>Pinus sylvestris</i> Under Contrasting Growing Conditions. <i>Frontiers in Plant Science</i> , 2021, 12, 786593.	1.7	4
1103	High variation in hydraulic efficiency but not xylem safety between roots and branches in four temperate broadleaved tree species. <i>Functional Ecology</i> , 2022, 36, 699-712.	1.7	17
1104	Spatio-temporal regulation of lignification. <i>Advances in Botanical Research</i> , 2022, , 271-316.	0.5	6
1105	The vessel wall thickness–vessel diameter relationship across woody angiosperms. <i>American Journal of Botany</i> , 2022, 109, 856-873.	0.8	8
1106	Lianas and Trees From a Seasonally Dry and a Wet Tropical Forest Did Not Differ in Embolism Resistance but Did Differ in Xylem Anatomical Traits in the Dry Forest. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	1.0	5
1122	Hydraulic safety predicts long-term growth of economical timber tree species planted in a degraded tropical karst area. <i>Trees - Structure and Function</i> , 0, , .	0.9	0
1123	Contrasting responses in growth, photosynthesis and hydraulics of two subtropical tree species to cadmium contamination as affected by elevated CO <sub>2</sub> and nitrogen addition. <i>Science of the Total Environment</i> , 2022, 837, 155858.	3.9	1
1124	No xylem phenotypic plasticity in mature <i>Picea abies</i> and <i>Fagus sylvatica</i> trees after 5 years of throughfall precipitation exclusion. <i>Global Change Biology</i> , 2022, 28, 4668-4683.	4.2	6
1125	The Variation of Functional Traits in Leaves and Current-Year Twigs of <i>Quercus aquifolioides</i> Along an Altitudinal Gradient in Southeastern Tibet. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	1.1	2
1126	Drought resilience of conifer species is driven by leaf lifespan but not by hydraulic traits. <i>New Phytologist</i> , 2022, 235, 978-992.	3.5	17
1127	The intraspecific relationship between wood density, vessel diameter and other traits across environmental gradients. <i>Functional Ecology</i> , 2022, 36, 1585-1598.	1.7	9
1128	Tropical wet and dry forest tree species exhibit contrasting hydraulic architecture. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2022, 291, 152072.	0.6	3
1129	Chasing genetic correlation breakers to stimulate population resilience to climate change. <i>Scientific Reports</i> , 2022, 12, 8238.	1.6	1
1130	Recovery after long-term summer drought: Hydraulic measurements reveal legacy effects in trunks of <i>Picea abies</i> but not in <i>Fagus sylvatica</i> . <i>Plant Biology</i> , 2022, 24, 1240-1253.	1.8	5
1132	A More Drought Resistant Stem Xylem of Southern Highbush Than Rabbiteye Blueberry Is Linked to Its Anatomy. <i>Agronomy</i> , 2022, 12, 1244.	1.3	4
1133	The roles of functional traits in canopy maintenance along a savanna/seasonally dry tropical forest gradient in northeastern Brazil. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2022, 292, 152090.	0.6	2
1134	Coordination of hydraulic thresholds across roots, stems, and leaves of two co-occurring mangrove species. <i>Plant Physiology</i> , 2022, 189, 2159-2174.	2.3	10
1135	Physiological trait networks enhance understanding of crop growth and water use in contrasting environments. <i>Plant, Cell and Environment</i> , 2022, 45, 2554-2572.	2.8	5

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1136	Human impacts as the main driver of tropical forest carbon. <i>Science Advances</i> , 2022, 8, .	4.7	18
1137	Whole-Plant Water Use and Hydraulics of <i>Populus euphratica</i> and <i>Tamarix ramosissima</i> Seedlings in Adaption to Groundwater Variation. <i>Water (Switzerland)</i> , 2022, 14, 1869.	1.2	0
1138	Linking xylem structure and function: the comparative method in from the cold. <i>New Phytologist</i> , 2022, 235, 815-820.	3.5	2
1139	Contrasting Climate Sensitivity of <i>Pinus cembra</i> Tree-Ring Traits in the Carpathians. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5
1140	Functional trade-offs in volume allocation to xylem cell types in 75 species from the Brazilian savanna Cerrado. <i>Annals of Botany</i> , 2022, 130, 445-456.	1.4	7
1141	Theoretical considerations regarding the functional anatomical traits of primary and secondary xylem in dragon tree trunk using the example of <i>Dracaena draco</i> . <i>Planta</i> , 2022, 256, .	1.6	3
1142	Stem Hydraulic Traits are Decoupled from Leaf Ecophysiological Traits in Mangroves in Southern Philippines. <i>Journal of Plant Biology</i> , 2022, 65, 389-401.	0.9	4
1144	Functional traits determine the vegetative phenology of woody species in riparian forest in semi-arid Brazil. <i>Plant Ecology</i> , 0, , .	0.7	1
1145	Wood Quality and Pulping Process Efficiency of Elite <i>Eucalyptus</i> spp. Clones Field-Grown under Seasonal Drought Stress. , 0, , .		0
1146	Crown dieback and mortality of urban trees linked to heatwaves during extreme drought. <i>Science of the Total Environment</i> , 2022, 850, 157915.	3.9	22
1147	The relative area of vessels in xylem correlates with stem embolism resistance within and between genera. <i>Tree Physiology</i> , 2023, 43, 75-87.	1.4	6
1148	Relationships between Xylem Transport, Anatomical, and Mechanical Traits at Organ Level of Two Cupressaceae Species. <i>Forests</i> , 2022, 13, 1564.	0.9	0
1149	Practical guidelines for quantitative wood anatomy on <i>Ginkgo biloba</i> L.. <i>IAWA Journal</i> , 2022, 44, 190-209.	0.5	1
1150	At least it is a dry cold: the global distribution of freeze-thaw and drought stress and the traits that may impart poly-tolerance in conifers. <i>Tree Physiology</i> , 2023, 43, 1-15.	1.4	9
1151	Hydraulic constraints determine the distribution of heteromorphic leaves along plant vertical height. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	2
1152	Functional traits and its variation linked to species' degree of isohydry in subtropical regions with high heterogeneity. <i>Plant and Soil</i> , 2023, 482, 277-296.	1.8	1
1153	Local hydrological conditions influence tree diversity and composition across the Amazon basin. <i>Ecography</i> , 2022, 2022, .	2.1	11
1154	Freeze dehydration vs. supercooling of mesophyll cells: Impact of cell wall, cellular and tissue traits on the extent of water displacement. <i>Physiologia Plantarum</i> , 2022, 174, .	2.6	9

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1155	A safe breeding ground: genetically improved maritime pine for growth and stem form has more efficient but not more vulnerable xylem. <i>Tree Physiology</i> , 2023, 43, 366-378.	1.4	3
1156	An Integrated Similarity Analysis of Anatomical and Physical Wood Properties of Tropical Species from India, Mozambique, and East Timor. <i>Forests</i> , 2022, 13, 1675.	0.9	3
1157	Xylem conduit deformation across vascular plants: an evolutionary spandrel or protective valve?. <i>New Phytologist</i> , 2023, 237, 1242-1255.	3.5	8
1158	Functional traits of riparian trees in the lower Fitzroy River, Western Australia. <i>Ecohydrology</i> , 2023, 16, .	1.1	1
1159	Xylem hydraulics strongly influence the niche differentiation of tree species along the slope of a river valley in a water-limited area. <i>Plant, Cell and Environment</i> , 2023, 46, 106-118.	2.8	1
1160	Moisture availability influences the formation and characteristics of earlywood of <i>Pinus tabuliformis</i> more than latewood in northern China. <i>Agricultural and Forest Meteorology</i> , 2022, 327, 109219.	1.9	6
1162	Wood density as a proxy of drought-induced forest dieback in silver fir. <i>Dendrochronologia</i> , 2022, 76, 126027.	1.0	2
1163	Deep Learning-Based Classification of Plant Xylem Tissue from Light Micrographs. <i>Lecture Notes in Computer Science</i> , 2022, , 237-248.	1.0	0
1164	The anatomical structure of woody plants in arid habitats is closely related to nonstructural carbohydrates storage. <i>Forest Ecosystems</i> , 2022, 9, 100073.	1.3	0
1165	Xylem anatomical traits determine the variation in wood density and water storage of plants in tropical semiarid climate. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2023, 298, 152185.	0.6	2
1166	Mismatch between species distribution and climatic niche optima in relation to functional traits. <i>Forest Ecosystems</i> , 2022, 9, 100077.	1.3	0
1167	Regional, Site, and Tree Variations of Wood Density and Growth in <i>Thuja occidentalis</i> L. in the Quebec Forest. <i>Forests</i> , 2022, 13, 1984.	0.9	1
1168	Developing a Roadmap to Define a Potential Ideotype for Drought Tolerance in <i>Eucalyptus</i> . <i>Forest Science</i> , 2023, 69, 101-114.	0.5	3
1169	Sapwood density underlies xylem hydraulics and stored carbohydrates across 13 deciduous tree species in a seasonally dry tropical forest in Thailand. <i>Trees - Structure and Function</i> , 2023, 37, 485-495.	0.9	1
1170	Vessel diameter and vulnerability to drought-induced embolism: within-tissue and across-species patterns and the issue of survivorship bias. <i>IAWA Journal</i> , 2022, 44, 304-319.	0.5	7
1171	Phenotypic plasticity enables considerable acclimation to heat and drought in a cold-adapted boreal forest tree species. <i>Frontiers in Forests and Global Change</i> , 0, 5, .	1.0	2
1173	Seasonal temperature and precipitation regimes drive variation in the wood of oak species ( <i>Quercus</i> ) along a climatic gradient in western Mexico. <i>IAWA Journal</i> , 2023, 44, 140-155.	0.5	1
1174	Soil fertility and drought interact to determine large variations in wood production for a hyperdominant Amazonian tree species. <i>Frontiers in Forests and Global Change</i> , 0, 5, .	1.0	2

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1175	Xylem anatomical and hydraulic traits vary within crown but not respond to water and nitrogen addition in <i>Populus tomentosa</i> . <i>Agricultural Water Management</i> , 2023, 278, 108169.	2.4	3
1176	Quantifying terminal white bands in <i>Salix</i> from the Yenisei river, Siberia and their relationship to late-season flooding. <i>Trees - Structure and Function</i> , 2023, 37, 821-836.	0.9	2
1177	Physiological selectivity and plant-environment feedbacks during Middle and Late Pennsylvanian plant community transitions. <i>Geological Society Special Publication</i> , 2023, 535, 361-382.	0.8	3
1178	Ageing-induced shrinkage of intervessel pit membranes in xylem of <i>Clematis vitalba</i> modifies its mechanical properties as revealed by atomic force microscopy. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	4
1179	Aridity-dependent sequence of water potentials for stomatal closure and hydraulic dysfunctions in woody plants. <i>Global Change Biology</i> , 2023, 29, 2030-2040.	4.2	4
1180	Combined tree-ring width and wood anatomy chronologies provide insights into the radial growth and hydraulic strategies in response to an extreme drought in plantation-grown Mongolian pine trees. <i>Environmental and Experimental Botany</i> , 2023, 208, 105259.	2.0	1
1181	Hydraulic role in differential stomatal behaviors at two contrasting elevations in three dominant tree species of a mixed coniferous and broad-leaved forest in low subtropical China. <i>Forest Ecosystems</i> , 2023, 10, 100095.	1.3	0
1183	Adaptations to the stressful combination of serpentine soils and Mediterranean climate drive plant functional groups and trait richness. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	1
1184	Spatial facilitation and competition regulate tree species assembly in a tropical dry forest. <i>Frontiers in Forests and Global Change</i> , 0, 6, .	1.0	0
1185	Wood trait trade-offs in desert plants: A triangular model to understand intra- and interspecific variations along an aridity gradient. <i>Austral Ecology</i> , 2024, 49, .	0.7	1
1186	Improving crop nutrition, soil carbon storage and soil physical fertility using ramial wood chips. <i>Environmental Technology and Innovation</i> , 2023, 31, 103143.	3.0	3
1187	Spatial patterns and climatic factors influence the branch xylem anatomical traits of <i>Reaumuria soongarica</i> in the desert region of northwestern China. <i>Environmental and Experimental Botany</i> , 2023, 210, 105338.	2.0	0
1188	Contributions of phenotypic integration, plasticity and genetic adaptation to adaptive capacity relating to drought in <i>Banksia marginata</i> (Proteaceae). <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	0