

The limits to tree height

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Citation Report

#	ARTICLE	IF	CITATIONS
1	FRACTAL GEOMETRY IS HERITABLE IN TREES. Evolution; International Journal of Organic Evolution, 2004, 58, 2100.	1.1	12
2	From The Cover: Growth and hydraulic (not mechanical) constraints govern the scaling of tree height and mass. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15661-15663.	3.3	211
3	Functional Design Space of Single-veined Leaves: Role of Tissue Hydraulic Properties in Constraining Leaf Size and Shape. Annals of Botany, 2004, 94, 507-513.	1.4	50
4	How dangerous is the use of fungal biocontrol agents to nontarget organisms?. New Phytologist, 2004, 163, 453-455.	3.5	12
5	Tansley reviews. New Phytologist, 2004, 163, 453-453.	3.5	15
6	The Cohesion-Tension Theory. New Phytologist, 2004, 163, 451-452.	3.5	68
7	Phenotypic plasticity - contrasting species-specific traits induced by identical environmental constraints. New Phytologist, 2004, 163, 449-451.	3.5	30
8	Nontarget effects of biological control agents. New Phytologist, 2004, 163, 455-457.	3.5	6
9	FRACTAL GEOMETRY IS HERITABLE IN TREES. Evolution; International Journal of Organic Evolution, 2004, 58, 2100-2102.	1.1	27
10	Tall storeys. Nature, 2004, 428, 807-808.	13.7	19
11	Speed limit ahead. Nature, 2004, 428, 808-809.	13.7	17
12	A long drink of water: how xylem changes with depth. New Phytologist, 2004, 163, 447-449.	3.5	14
13	Land Surface Model Development for the GISS GCM: Effects of Improved Canopy Physiology on Simulated Climate. Journal of Climate, 2005, 18, 2883-2902.	1.2	124
14	The control of stomata by water balance. New Phytologist, 2005, 168, 275-292.	3.5	558
15	Size-mediated ageing reduces vigour in trees. Ecology Letters, 2005, 8, 1183-1190.	3.0	312
16	Climatic and ecological determinants of leaf lifespan in polar forests of the high CO2 Cretaceous 'greenhouse' world. Global Change Biology, 2005, 11, 2177-2195.	4.2	30
17	Tradeoffs between height growth rate, stem persistence and maximum height among plant species in a post-fire succession. Oikos, 2005, 111, 57-66.	1.2	77
18	Effect Of Height On Tree Hydraulic Conductance Incompletely Compensated By Xylem Tapering. Functional Ecology, 2005, 19, 359-364.	1.7	35

#	ARTICLE	IF	CITATIONS
19	Shade avoidance and Zahavi's handicap principle in dense plant populations. <i>Biological Journal of the Linnean Society</i> , 2005, 84, 313-319.	0.7	5
20	Linking tree form, allocation and growth with an allometrically explicit model. <i>Ecological Modelling</i> , 2005, 185, 77-91.	1.2	43
21	Biomechanics of cellular solids. <i>Journal of Biomechanics</i> , 2005, 38, 377-399.	0.9	780
22	Environmental sensitivity of gas exchange in different-sized trees. <i>Oecologia</i> , 2005, 145, 9-20.	0.9	66
23	Transport Challenges in Tall Trees. , 2005, , 437-456.		11
24	The Role of Potassium in Long Distance Transport in Plants. , 2005, , 221-240.		19
25	Long-term trends in cellulose $\delta^{13}C$ and water-use efficiency of tropical <i>Cedrela</i> and <i>Swietenia</i> from Brazil. <i>Tree Physiology</i> , 2005, 25, 745-752.	1.4	98
26	Modeling the dynamics of pressure propagation and diameter variation in tree sapwood. <i>Tree Physiology</i> , 2005, 25, 1091-1099.	1.4	41
27	Patterns in hydraulic architecture and their implications for transport efficiency. <i>Tree Physiology</i> , 2005, 25, 257-267.	1.4	151
28	Growth of advance regeneration of Norway spruce after clear-cutting. <i>Tree Physiology</i> , 2005, 25, 793-801.	1.4	17
29	Hydraulic architecture correlates with bud organogenesis and primary shoot growth in beech (<i>Fagus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	55
30	A modeling analysis of the interaction between forest age and forest responsiveness to increasing CO2 concentration. <i>Tree Physiology</i> , 2005, 25, 953-963.	1.4	14
31	A unified nomenclature for quantification and description of water conducting properties of sapwood xylem based on Darcy's law. <i>Tree Physiology</i> , 2005, 25, 993-1000.	1.4	29
32	Sapwood area \hat{A} – leaf area relationships for coast redwood. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1250-1255.	0.8	23
33	Restoring tropical biodiversity: Leaf traits predict growth and survival of late-successional trees in early-successional environments. <i>Forest Ecology and Management</i> , 2005, 217, 365-379.	1.4	60
34	Developmental Strategy or Immediate Responses in Leaf Traits of Tropical Tree Species?. <i>International Journal of Plant Sciences</i> , 2005, 166, 41-48.	0.6	25
35	Stay wet or else: three ways in which plants can adjust hydraulically to their environment. <i>Journal of Experimental Botany</i> , 2006, 57, 3963-3977.	2.4	188
36	Holocene precipitation in the coastal temperate rainforest complex of southern British Columbia, Canada. <i>Quaternary Science Reviews</i> , 2006, 25, 2762-2779.	1.4	29

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39	Ecosystem allometry: the scaling of nutrient stocks and primary productivity across plant communities. <i>Ecology Letters</i> , 2006, 9, 419-427.	3.0	90
40	Convergent tapering of xylem conduits in different woody species. <i>New Phytologist</i> , 2006, 169, 279-290.	3.5	252
41	Scaling the paths of resistance. <i>New Phytologist</i> , 2006, 169, 219-222.	3.5	13
42	Wood density and vessel traits as distinct correlates of ecological strategy in 51 California coast range angiosperms. <i>New Phytologist</i> , 2006, 170, 807-818.	3.5	374
43	The relationship between tree size and epiphyte species richness: testing four different hypotheses. <i>Journal of Biogeography</i> , 2006, 33, 323-330.	1.4	138
44	Hydraulic efficiency and safety of branch xylem increases with height in <i>Sequoia sempervirens</i> (D.) Tj ETQq1 1 0.784314 rgBT/Overlook	2.8	95
45	Spatial and temporal scaling of intercellular CO ₂ concentration in a temperate rain forest dominated by <i>Dacrydium cupressinum</i> in New Zealand. <i>Plant, Cell and Environment</i> , 2006, 29, 497-510.	2.8	11
46	The hydraulic limitation hypothesis revisited. <i>Plant, Cell and Environment</i> , 2006, 29, 367-381.	2.8	543
47	Changes in leaf morphology and anatomy with tree age and height in the broadleaved evergreen species, <i>Eucalyptus regnans</i> F. Muell. <i>Trees - Structure and Function</i> , 2006, 20, 79-90.	0.9	115
48	Spatial variation in sapwood area to leaf area ratio and specific leaf area within a crown of silver birch. <i>Trees - Structure and Function</i> , 2006, 20, 311-319.	0.9	32
49	Vertical canopy gradients in $\delta^{13}C$ correspond with leaf nitrogen content in a mixed-species conifer forest. <i>Trees - Structure and Function</i> , 2006, 20, 496-506.	0.9	81
50	Hydraulic compensation in northern Rocky Mountain conifers: does successional position and life history matter?. <i>Oecologia</i> , 2006, 149, 1-11.	0.9	13
51	Tree height and age-related decline in growth in Scots pine (<i>Pinus sylvestris</i> L.). <i>Oecologia</i> , 2006, 150, 529-544.	0.9	114
52	Scaling effects of wet adhesion in biological attachment systems. <i>Acta Biomaterialia</i> , 2006, 2, 51-58.	4.1	103
53	Living in a physical world VII. Gravity and life on the ground. <i>Journal of Biosciences</i> , 2006, 31, 201-214.	0.5	13
54	Reducing stem bending increases the height growth of tall pines. <i>Journal of Experimental Botany</i> , 2006, 57, 3175-3182.	2.4	62
55	Impact of eastern dwarf mistletoe (<i>Arceuthobium pusillum</i>) infection on the needles of red spruce (<i>Picea rubens</i>) and white spruce (<i>Picea glauca</i>): oxygen exchange, morphology and composition. <i>Tree Physiology</i> , 2006, 26, 1325-1332.	1.4	26
56	Plant biomechanics: an overview and prospectus. <i>American Journal of Botany</i> , 2006, 93, 1369-1378.	0.8	52

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57	Intact plant MRI for the study of cell water relations, membrane permeability, cell-to-cell and long distance water transport. <i>Journal of Experimental Botany</i> , 2006, 58, 743-756.	2.4	167
58	Hydraulic conductance characteristics of peach (<i>Prunus persica</i>) trees on different rootstocks are related to biomass production and distribution. <i>Tree Physiology</i> , 2006, 26, 1343-1350.	1.4	70
59	How strong is intracanalopy leaf plasticity in temperate deciduous trees?. <i>American Journal of Botany</i> , 2006, 93, 829-839.	0.8	171
60	Changes in photosynthesis and leaf characteristics with tree height in five dipterocarp species in a tropical rain forest. <i>Tree Physiology</i> , 2006, 26, 865-873.	1.4	131
61	Bordered pit structure and function determine spatial patterns of air-seeding thresholds in xylem of Douglas-fir (<i>Pseudotsuga menziesii</i> ; Pinaceae) trees. <i>American Journal of Botany</i> , 2006, 93, 1588-1600.	0.8	133
62	Intact Plant Magnetic Resonance Imaging to Study Dynamics in Long-Distance Sap Flow and Flow-Conducting Surface Area. <i>Plant Physiology</i> , 2007, 144, 1157-1165.	2.3	96
63	Plasticity of shoot and needle morphology and photosynthesis of two <i>Picea</i> species with different site preferences in northern Japan. <i>Tree Physiology</i> , 2007, 27, 1595-1605.	1.4	25
64	Maximum plant height and the biophysical factors that limit it. <i>Tree Physiology</i> , 2007, 27, 433-440.	1.4	96
65	Plant size, not age, regulates growth and gas exchange in grafted Scots pine trees. <i>Tree Physiology</i> , 2007, 27, 71-79.	1.4	57
66	3D GROWTH PATTERNS OF TREES: EFFECTS OF CARBON ECONOMY, MERISTEM ACTIVITY, AND SELECTION. <i>Ecological Monographs</i> , 2007, 77, 405-420.	2.4	55
67	Metabolic Scaling and the Evolutionary Dynamics of Plant Size, Form, and Diversity: Toward a Synthesis of Ecology, Evolution, and Paleontology. <i>International Journal of Plant Sciences</i> , 2007, 168, 729-749.	0.6	39
68	Epiphyte communities on redwood (<i>Sequoia sempervirens</i>) in northwestern California. <i>Bryologist</i> , 2007, 110, 420-452.	0.1	45
69	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
70	Tree water storage and its diurnal dynamics related to sap flow and changes in stem volume in old-growth Douglas-fir trees. <i>Tree Physiology</i> , 2007, 27, 181-198.	1.4	250
71	A link between hurricane-induced tree sprouting, high stem density and short canopy in tropical dry forest. <i>Tree Physiology</i> , 2007, 27, 475-480.	1.4	44
72	Aging in Perennials. <i>Critical Reviews in Plant Sciences</i> , 2007, 26, 123-138.	2.7	86
73	Physiological and ecological implications of adaptive reiteration as a mechanism for crown maintenance and longevity. <i>Tree Physiology</i> , 2007, 27, 455-462.	1.4	45
74	Hunters, fishers and scavengers. <i>Before Farming</i> , 2007, 2007, 1-16.	0.2	11

#	ARTICLE	IF	CITATIONS
75	Retrieving seasonal variation in chlorophyll content of overstory and understory sugar maple leaves from leaf-level hyperspectral data. <i>Canadian Journal of Remote Sensing</i> , 2007, 33, 406-415.	1.1	75
76	Exploring University Students' Competencies in Modelling. , 2007, , 120-129.		14
77	Perpetuating old ponderosa pine. <i>Forest Ecology and Management</i> , 2007, 249, 141-157.	1.4	131
78	Light-dependent leaf trait variation in 43 tropical dry forest tree species. <i>American Journal of Botany</i> , 2007, 94, 515-525.	0.8	128
79	Evidence for age- and size-mediated controls of tree growth from grafting studies. <i>Tree Physiology</i> , 2007, 27, 463-473.	1.4	70
80	Developmental decline in height growth in Douglas-fir. <i>Tree Physiology</i> , 2007, 27, 441-453.	1.4	85
81	The scaling of leaf area and mass: the cost of light interception increases with leaf size. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2109-2115.	1.2	183
83	Are Species Adapted to Their Regeneration Niche, Adult Niche, or Both?. <i>American Naturalist</i> , 2007, 169, 433-442.	1.0	193
85	Silica breaks through in plants. <i>Nature Nanotechnology</i> , 2007, 2, 272-273.	15.6	95
86	Magic nanoclusters of gold. <i>Nature Nanotechnology</i> , 2007, 2, 273-274.	15.6	76
87	Expression of PIP1 and PIP2 aquaporins is enhanced in olive dwarf genotypes and is related to root and leaf hydraulic conductance. <i>Physiologia Plantarum</i> , 2007, 130, 543-551.	2.6	43
88	Winter at the alpine timberline causes complex within-tree patterns of water potential and embolism in <i>Picea abies</i> . <i>Physiologia Plantarum</i> , 2007, 131, 131-139.	2.6	39
89	Sanio's laws revisited. Size-dependent changes in the xylem architecture of trees. <i>Ecology Letters</i> , 2007, 10, 1084-1093.	3.0	92
90	Impacts of tree height on leaf hydraulic architecture and stomatal control in Douglas-fir. <i>Plant, Cell and Environment</i> , 2007, 30, 559-569.	2.8	102
91	Parenchyma cell respiration and survival in secondary xylem: does metabolic activity decline with cell age?. <i>Plant, Cell and Environment</i> , 2007, 30, 934-943.	2.8	77
92	Predicting the limits to tree height using statistical regressions of leaf traits. <i>New Phytologist</i> , 2007, 174, 626-636.	3.5	42
93	Tree growth, mortality, and above-ground biomass accumulation in a holm oak forest under a five-year experimental field drought. <i>Plant Ecology</i> , 2007, 189, 291-299.	0.7	147
94	Effects of enhanced hydraulic supply for foliage on stomatal responses in little-leaf linden (<i>Tilia</i>)	1.1	23

#	ARTICLE	IF	CITATIONS
95	Foliar water supply of tall trees: evidence for mucilage-facilitated moisture uptake from the atmosphere and the impact on pressure bomb measurements. <i>Protoplasma</i> , 2007, 232, 11-34.	1.0	51
96	0.7 and 3 T MRI and Sap Flow in Intact Trees: Xylem and Phloem in Action. <i>Applied Magnetic Resonance</i> , 2007, 32, 157-170.	0.6	36
97	Size-dependency in hydraulic and photosynthetic properties of three <i>Acer</i> species having different maximum sizes. <i>Ecological Research</i> , 2008, 23, 281-288.	0.7	33
98	A new approach for the limit to tree height using a liquid nanolayer model. <i>Continuum Mechanics and Thermodynamics</i> , 2008, 20, 317-329.	1.4	5
99	Recovery of Aboveground Plant Biomass and Productivity After Fire in Mesic and Dry Black Spruce Forests of Interior Alaska. <i>Ecosystems</i> , 2008, 11, 209-225.	1.6	120
100	Hydrostatic constraints on morphological exploitation of light in tall <i>Sequoia sempervirens</i> trees. <i>Oecologia</i> , 2008, 156, 751-763.	0.9	94
101	Modelling polymer interactions of the "molecular Velcro" type in wood under mechanical stress. <i>Journal of Theoretical Biology</i> , 2008, 253, 434-445.	0.8	83
102	A hydraulic "photosynthetic model based on extended HLH and its application to Coast redwood (<i>Sequoia sempervirens</i>). <i>Journal of Theoretical Biology</i> , 2008, 253, 393-400.	0.8	16
103	Nanoscale water capillary bridges under deeply negative pressure. <i>Chemical Physics Letters</i> , 2008, 451, 88-92.	1.2	75
104	Ultrasonic acoustic emissions in drought-stressed trees " more than signals from cavitation?. <i>New Phytologist</i> , 2008, 179, 1070-1079.	3.5	50
105	Changes of Leaf Morphological, Anatomical Structure and Carbon Isotope Ratio with the Height of the Wangtian Tree (<i>Parashorea chinensis</i>) in Xishuangbanna, China. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 168-173.	4.1	22
106	Capacity of Old Trees to Respond to Environmental Change. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 1355-1364.	4.1	42
107	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
108	Apple shoot architecture: evidence for strong variability of bud size and composition and hydraulics within a branching zone. <i>New Phytologist</i> , 2008, 178, 798-807.	3.5	27
109	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
110	Intraspecific changes in forest canopy allometries during self-thinning. <i>Functional Ecology</i> , 2008, 22, 460-469.	1.7	24
111	Maximum size distributions in tropical forest communities: relationships with rainfall and disturbance. <i>Journal of Ecology</i> , 2008, 96, 495-504.	1.9	29
112	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

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113	Foliar and ecosystem respiration in an old-growth tropical rain forest. <i>Plant, Cell and Environment</i> , 2008, 31, 473-483.	2.8	91
114	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
115	Changes in leaf photosynthetic characteristics and water use efficiency along with tree height of 4 tree species. <i>Acta Ecologica Sinica</i> , 2008, 28, 3008-3016.	0.9	8
117	Boreal Forest and Climate Change. , 2008, , .		36
118	Why are evergreen leaves so contrary about shade?. <i>Trends in Ecology and Evolution</i> , 2008, 23, 299-303.	4.2	193
119	Hot, dry, wet, cold or toxic? Revisiting the ecological significance of leaf and cuticular micromorphology. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 262, 79-90.	1.0	124
120	Photosynthetic response to green crown pruning in young plantation-grown <i>Eucalyptus pilularis</i> and <i>E. cloeziana</i> . <i>Forest Ecology and Management</i> , 2008, 255, 3827-3838.	1.4	25
121	Relationships between radial growth rates and lifespan within North American tree species. <i>Ecoscience</i> , 2008, 15, 349-357.	0.6	79
122	Biophysical constraints on leaf expansion in a tall conifer. <i>Tree Physiology</i> , 2008, 28, 197-206.	1.4	51
123	Coordination of leaf structure and gas exchange along a height gradient in a tall conifer. <i>Tree Physiology</i> , 2008, 29, 261-272.	1.4	73
124	Altitudinal differences in the leaf fitness of juvenile and mature alpine spruce trees (<i>Picea</i>). <i>Tree Physiology</i> , 2008, 28, 107-114.	1.4	44
125	Maximum height in a conifer is associated with conflicting requirements for xylem design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12069-12074.	3.3	204
126	Variations in relative stomatal and biochemical limitations to photosynthesis in a young blackbutt (<i>Eucalyptus pilularis</i>) plantation subjected to different weed control regimes. <i>Tree Physiology</i> , 2008, 28, 997-1005.	1.4	26
127	Xylem tension affects growth-induced water potential and daily elongation of maize leaves. <i>Journal of Experimental Botany</i> , 2008, 59, 753-764.	2.4	26
128	Sustained diurnal photosynthetic depression in uppermost-canopy leaves of four dipterocarp species in the rainy and dry seasons: does photorespiration play a role in photoprotection?. <i>Tree Physiology</i> , 2008, 29, 217-228.	1.4	36
129	Variability in radial sap flux density patterns and sapwood area among seven co-occurring temperate broad-leaved tree species. <i>Tree Physiology</i> , 2008, 28, 1821-1830.	1.4	159
130	MRI of Water Transport in the Soil-Plant-Atmosphere Continuum. , 0, , 315-330.		2
132	LARGE ONTOGENETIC DECLINES IN INTRA-CROWN LEAF AREA INDEX IN TWO TEMPERATE DECIDUOUS TREE SPECIES. <i>Ecology</i> , 2008, 89, 744-753.	1.5	49

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133	CROWN DEVELOPMENT OF COASTAL <i>PSEUDOTSUGA MENZIESII</i> , INCLUDING A CONCEPTUAL MODEL FOR TALL CONIFERS. <i>Ecological Monographs</i> , 2008, 78, 283-311.	2.4	67
134	Características morfológicas da epiderme foliar de plantas variantes e clones somaclonais de bananeiras (<i>Musa sp.</i> Colla cv. Prata-anã) cultivadas in vitro. <i>Acta Botanica Brasílica</i> , 2008, 22, 85-90.	0.8	2
135	Practical Extension of a Lake States Tree Height Model. <i>Northern Journal of Applied Forestry</i> , 2008, 25, 186-194.	0.5	3
137	References and Index of Citations. , 2009, , 263-288.		0
138	Overcoming data sparseness and parametric constraints in modeling of tree mortality: a new nonparametric Bayesian model. <i>Canadian Journal of Forest Research</i> , 2009, 39, 1677-1687.	0.8	25
140	Limitations within "The Limits to Tree Height". <i>American Journal of Botany</i> , 2009, 96, 542-544.	0.8	11
141	Predicting the allometry of leaf surface area and dry mass. <i>American Journal of Botany</i> , 2009, 96, 531-536.	0.8	41
142	Axial and Radial Variations in Xylem Anatomy of Angiosperm and Conifer Trees in Yunnan, China. <i>IAWA Journal</i> , 2009, 30, 1-13.	2.7	36
143	Costs of height gain in rainforest saplings: main-stem scaling, functional traits and strategy variation across 75 species. <i>Annals of Botany</i> , 2009, 104, 987-993.	1.4	24
144	A response to: Limitations within "The Limits to Tree Height". <i>American Journal of Botany</i> , 2009, 96, 545-547.	0.8	8
145	Water-use responses of "living fossil" conifers to CO2 enrichment in a simulated Cretaceous polar environment. <i>Annals of Botany</i> , 2009, 104, 179-188.	1.4	19
146	Are savannas patch-dynamic systems? A landscape model. <i>Ecological Modelling</i> , 2009, 220, 3576-3588.	1.2	25
147	Within-crown structural variability of dwarfed mature <i>Abies mariesii</i> in snowy subalpine parkland in central Japan. <i>Journal of Forest Research</i> , 2009, 14, 155-166.	0.7	6
148	Morphogenetic trends in the morphological, optical and biochemical features of phyllodes in <i>Acacia mangium</i> Willd (Mimosaceae). <i>Trees - Structure and Function</i> , 2009, 23, 37-49.	0.9	9
149	Comparative hydraulic and anatomic properties in palm trees (<i>Washingtonia robusta</i>) of varying heights: implications for hydraulic limitation to increased height growth. <i>Trees - Structure and Function</i> , 2009, 23, 911-921.	0.9	25
150	Changes in needle nitrogen partitioning and photosynthesis during 80 years of tree ontogeny in <i>Picea abies</i> . <i>Trees - Structure and Function</i> , 2009, 23, 951-958.	0.9	19
151	The importance of host tree age, size and growth rate as determinants of epiphytic lichen diversity in boreal spruce forests. <i>Biodiversity and Conservation</i> , 2009, 18, 3579-3596.	1.2	91
152	Height-related growth declines in ponderosa pine are not due to carbon limitation. <i>Plant, Cell and Environment</i> , 2009, 32, 22-30.	2.8	155

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153	Effects of tree height on branch hydraulics, leaf structure and gas exchange in California redwoods. <i>Plant, Cell and Environment</i> , 2009, 32, 743-757.	2.8	113
154	Fog interception by <i>Sequoia sempervirens</i> (D. Don) crowns decouples physiology from soil water deficit. <i>Plant, Cell and Environment</i> , 2009, 32, 882-892.	2.8	160
155	Size-dependent mortality in a Neotropical savanna tree: the role of height-related adjustments in hydraulic architecture and carbon allocation. <i>Plant, Cell and Environment</i> , 2009, 32, 1456-1466.	2.8	96
156	Trees approach gravitational limits to height in tall lowland forests of Malaysia. <i>Functional Ecology</i> , 2009, 23, 284-291.	1.7	65
157	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
158	A non-invasive probe for online-monitoring of turgor pressure changes under field conditions. <i>Plant Biology</i> , 2009, 11, 701-712.	1.8	49
159	Causes and consequences of variation in leaf mass per area (LMA): a meta-analysis. <i>New Phytologist</i> , 2009, 182, 565-588.	3.5	2,056
160	Plant physiology in theory and practice: An analysis of the WBE model for vascular plants. <i>Journal of Theoretical Biology</i> , 2009, 259, 1-4.	0.8	85
161	The relationship between reference canopy conductance and simplified hydraulic architecture. <i>Advances in Water Resources</i> , 2009, 32, 809-819.	1.7	70
162	Degree of tapering of xylem conduits in stems and roots of small <i>Pinus cembra</i> and <i>Larix decidua</i> trees. <i>Botany</i> , 2009, 87, 501-508.	0.5	34
163	Models for predicting above-ground biomass of <i>Betula pubescens</i> spp. <i>czerepani</i> in mountain areas of southern Norway. <i>Scandinavian Journal of Forest Research</i> , 2009, 24, 318-332.	0.5	10
164	Resource-use-related traits correlate with population turnover rates, but not stem diameter growth rates, in 29 subtropical montane tree species. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2009, 11, 203-218.	1.1	19
165	Plant height-crown radius and canopy coverage-density relationships determine above-ground biomass-density relationship in stressful environments. <i>Biology Letters</i> , 2009, 5, 571-573.	1.0	41
166	Old-Growth Forests. <i>Ecological Studies</i> , 2009, , .	0.4	59
167	The intertwined population biology of two Amazonian myrmecophytes and their symbiotic ants. <i>Ecology</i> , 2009, 90, 1595-1607.	1.5	48
168	Towards a physical description of habitat: quantifying environmental adversity (abiotic stress) in temperate forest and woodland ecosystems. <i>Journal of Ecology</i> , 2009, 97, 964-971.	1.9	17
169	Genomics, Domestication, and Evolution of Forest Trees. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2009, 74, 303-317.	2.0	13
170	Physiological consequences of height-related morphological variation in <i>Sequoia sempervirens</i> foliage. <i>Tree Physiology</i> , 2009, 29, 999-1010.	1.4	56

#	ARTICLE	IF	CITATIONS
171	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
172	Stomata dimorphism in dicotyledonous plants of temperate climate. <i>Feddes Repertorium</i> , 2010, 121, 167-183.	0.2	8
173	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
174	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
175	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
176	The evolution of water transport in plants: an integrated approach. <i>Geobiology</i> , 2010, 8, 112-139.	1.1	124
177	Variation in ecophysiological properties among conifers at an ecotonal boundary: comparison of establishing seedlings and established adults at timberline. <i>Journal of Vegetation Science</i> , 2010, 21, 133-142.	1.1	23
178	Hydraulic limitation not declining nitrogen availability causes the age-related photosynthetic decline in loblolly pine (<i>Pinus taeda</i> L.). <i>Plant, Cell and Environment</i> , 2010, 33, 1756-1766.	2.8	67
179	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
180	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
181	Loss of flower bud vigour in the Mediterranean shrub, <i>Cistus albidus</i> L. at advanced developmental stages. <i>Plant Biology</i> , 2010, 12, 475-483.	1.8	11
182	Height is more important than light in determining leaf morphology in a tropical forest. <i>Ecology</i> , 2010, 91, 1730-1739.	1.5	113
183	The hydrostatic gradient, not light availability, drives height-related variation in <i>Sequoia sempervirens</i> (Cupressaceae) leaf anatomy. <i>American Journal of Botany</i> , 2010, 97, 1087-1097.	0.8	63
184	Intrinsic and extrinsic hydraulic factors in varying sizes of two Amazonian palm species (<i>Iriartea</i>). <i>Journal of Botany</i> , 2010, 97, 1926-1936.	0.8	14
185	Photosynthetic capacity peaks at intermediate size in temperate deciduous trees. <i>Tree Physiology</i> , 2010, 30, 555-573.	1.4	90
186	Estimates and relationships between aboveground and belowground resource exchange surface areas in a Sitka spruce managed forest. <i>Tree Physiology</i> , 2010, 30, 705-714.	1.4	16
187	Pore space analysis of beech wood: The vessel network. <i>Holzforschung</i> , 2010, 64, .	0.9	36
188	Ontogenetic changes in the numbers of short- vs. long-shoots account for decreasing specific leaf area in <i>Acer rubrum</i> (Aceraceae) as trees increase in size. <i>American Journal of Botany</i> , 2010, 97, 27-37.	0.8	17

#	ARTICLE	IF	CITATIONS
189	Accumulation of xylem transported protein at pit membranes and associated reductions in hydraulic conductance. <i>Journal of Experimental Botany</i> , 2010, 61, 1711-1717.	2.4	27
190	Effects of height on treetop transpiration and stomatal conductance in coast redwood (<i>Sequoia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 11	1.4	66
191	Plant Cell Growth in Tissue Â. <i>Plant Physiology</i> , 2010, 154, 1244-1253.	2.3	43
192	C and N stable isotope signatures reveal constraints to nutritional modes in orchids from the Mediterranean and Macaronesia. <i>American Journal of Botany</i> , 2010, 97, 903-912.	0.8	75
193	Herbivory patterns in mature sugar maple: variation with vertical canopy strata and tree ontogeny. <i>Ecological Entomology</i> , 2010, 35, 1-8.	1.1	27
194	Importance of structure and its measurement in quantifying function of forest ecosystems. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	142
195	Lignin and Biomass: A Negative Correlation for Wood Formation and Lignin Content in Trees. <i>Plant Physiology</i> , 2010, 154, 555-561.	2.3	322
196	Mucilage and polysaccharides in the halophyte plant species <i>Kosteletzkya virginica</i> : Localization and composition in relation to salt stress. <i>Journal of Plant Physiology</i> , 2010, 167, 382-392.	1.6	105
197	Within-stand and seasonal variations of specific leaf area in a clonal <i>Eucalyptus</i> plantation in the Republic of Congo. <i>Forest Ecology and Management</i> , 2010, 259, 1796-1807.	1.4	74
198	Ontogenetic changes in water-use efficiency ($\delta^{13}C$) and leaf traits differ among tree species growing in a semiarid region of the Loess Plateau, China. <i>Forest Ecology and Management</i> , 2010, 259, 953-957.	1.4	34
199	Increasing wood production through old age in tall trees. <i>Forest Ecology and Management</i> , 2010, 259, 976-994.	1.4	157
200	Resin pocket occurrence in Norway spruce depending on tree and climate variables. <i>Forest Ecology and Management</i> , 2010, 260, 302-312.	1.4	14
201	Responses of forest trees to single and multiple environmental stresses from seedlings to mature plants: Past stress history, stress interactions, tolerance and acclimation. <i>Forest Ecology and Management</i> , 2010, 260, 1623-1639.	1.4	557
202	Vessel diameter and xylem hydraulic conductivity increase with tree height in tropical rainforest trees in Sulawesi, Indonesia. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2010, 205, 506-512.	0.6	67
203	Comparative monitoring of temporal and spatial changes in tree water status using the non-invasive leaf patch clamp pressure probe and the pressure bomb. <i>Agricultural Water Management</i> , 2010, 98, 283-290.	2.4	25
204	Tropical Rainforests and Agroforests under Global Change. <i>Environmental Science and Engineering</i> , 2010, , .	0.1	14
205	Mechanics of Molecular Bond Clusters between Elastic Media: Stochastic-Elastic Coupling in Cell-Matrix Adhesion. <i>Biophysical Journal</i> , 2010, 98, 728a.	0.2	0
206	Effects of leaf age and tree size on stomatal and mesophyll limitations to photosynthesis in mountain beech (<i>Nothofagus solandrii</i> var. <i>cliffortioides</i>). <i>Tree Physiology</i> , 2011, 31, 985-996.	1.4	37

#	ARTICLE	IF	CITATIONS
207	Hydraulic Capacitance: Biophysics and Functional Significance of Internal Water Sources in Relation to Tree Size. <i>Tree Physiology</i> , 2011, , 341-361.	0.9	113
208	Carbon Storage in Trees: Does Relative Carbon Supply Decrease with Tree Size?. <i>Tree Physiology</i> , 2011, , 287-306.	0.9	22
209	Online-monitoring of tree water stress in a hedgerow olive orchard using the leaf patch clamp pressure probe. <i>Agricultural Water Management</i> , 2011, 100, 25-35.	2.4	64
210	Crown fragmentation assessment in tropical trees: Method, insights and perspectives. <i>Forest Ecology and Management</i> , 2011, 261, 400-407.	1.4	28
211	Comparative Structure and Organization of Canopy Bird Assemblages in Honduras and Brazil. <i>Condor</i> , 2011, 113, 7-23.	0.7	5
212	How Do Changes in Leaf/Shoot Morphology and Crown Architecture Affect Growth and Physiological Function of Tall Trees?. <i>Tree Physiology</i> , 2011, , 215-232.	0.9	12
213	Analysis of factors governing water flow traits in fruiting plants twigs. <i>Scientia Horticulturae</i> , 2011, 130, 175-180.	1.7	0
214	A Lifespan Perspective on Integrating Structure and Function in Trees. <i>Tree Physiology</i> , 2011, , 3-30.	0.9	7
215	Regulation of Ontogeny in Temperate Conifers. <i>Tree Physiology</i> , 2011, , 91-119.	0.9	20
216	Size-Related Changes in Tree Proportions and Their Potential Influence on the Course of Height Growth. <i>Tree Physiology</i> , 2011, , 165-191.	0.9	30
217	Change in hydraulic properties and leaf traits in a tall rainforest tree species subjected to long-term throughfall exclusion in the perhumid tropics. <i>Biogeosciences</i> , 2011, 8, 2179-2194.	1.3	38
218	Height-diameter allometry of tropical forest trees. <i>Biogeosciences</i> , 2011, 8, 1081-1106.	1.3	396
219	Predicting Maximum Tree Heights and Other Traits from Allometric Scaling and Resource Limitations. <i>PLoS ONE</i> , 2011, 6, e20551.	1.1	76
220	The impact of long-term water stress on relative growth rate and morphology of needles and shoots of <i>Metasequoia glyptostroboides</i> seedlings: research toward identifying mechanistic models. <i>Physiologia Plantarum</i> , 2011, 143, 10-20.	2.6	11
221	Factors controlling plasticity of leaf morphology in <i>Robinia pseudoacacia</i> : III. biophysical constraints on leaf expansion under long-term water stress. <i>Physiologia Plantarum</i> , 2011, 143, 367-374.	2.6	19
222	Variation in above-ground forest biomass across broad climatic gradients. <i>Global Ecology and Biogeography</i> , 2011, 20, 744-754.	2.7	195
223	What is the proximate cause for size-dependent ecophysiological differences in vascular epiphytes?. <i>Plant Biology</i> , 2011, 13, 902-908.	1.8	7
224	Water relations of coast redwood planted in the semi-arid climate of southern California. <i>Plant, Cell and Environment</i> , 2011, 34, 1384-1400.	2.8	26

#	ARTICLE	IF	CITATIONS
225	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
226	Will a 385 million year-struggle for light become a struggle for water and for carbon? - How trees may cope with more frequent climate change-type drought events. <i>Global Change Biology</i> , 2011, 17, 642-655.	4.2	161
227	Tree mortality in the eastern and central United States: patterns and drivers. <i>Global Change Biology</i> , 2011, 17, 3312-3326.	4.2	151
228	Functional traits shape ontogenetic growth trajectories of rain forest tree species. <i>Journal of Ecology</i> , 2011, 99, 1431-1440.	1.9	180
229	Hydraulic constraints limit height growth in trees at high altitude. <i>New Phytologist</i> , 2011, 189, 241-252.	3.5	89
230	Plant Stems: Functional Design and Mechanics. <i>Annual Review of Materials Research</i> , 2011, 41, 169-193.	4.3	162
231	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
232	The impact of climate change on California timberlands. <i>Climatic Change</i> , 2011, 109, 429-443.	1.7	11
233	The stomatal CO ₂ proxy does not saturate at high atmospheric CO ₂ concentrations: evidence from stomatal index responses of Araucariaceae conifers. <i>Oecologia</i> , 2011, 167, 11-19.	0.9	32
234	Within- and among-species variation in specific leaf area drive community assembly in a tropical cloud forest. <i>Oecologia</i> , 2011, 167, 1103-1113.	0.9	65
235	A micropump based on water potential difference in plants. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 717-724.	1.0	20
236	The growth of giant pumpkins: How extreme weight influences shape. <i>International Journal of Non-Linear Mechanics</i> , 2011, 46, 637-647.	1.4	15
237	Linking hydraulic conductivity and photosynthesis to water-source partitioning in trees versus seedlings. <i>Tree Physiology</i> , 2011, 31, 763-773.	1.4	30
238	Generalizing plant-water relations to landscapes. <i>Journal of Plant Ecology</i> , 2011, 4, 101-113.	1.2	33
239	The Circadian Clock Modulates Water Dynamics and Aquaporin Expression in Arabidopsis Roots. <i>Plant and Cell Physiology</i> , 2011, 52, 373-383.	1.5	70
240	Vertical and seasonal variation in the $\delta^{13}C$ of leaf-respired CO ₂ in a mixed conifer forest. <i>Tree Physiology</i> , 2011, 31, 414-427.	1.4	9
241	Imbibition in mesoporous silica: rheological concepts and experiments on water and a liquid crystal. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 184109.	0.7	42
243	Sensitivity of ring growth and carbon allocation to climatic variation vary within ponderosa pine trees. <i>Tree Physiology</i> , 2012, 32, 14-23.	1.4	36

#	ARTICLE	IF	CITATIONS
244	Comparative structure and biomechanics of plant primary and secondary cell walls. <i>Frontiers in Plant Science</i> , 2012, 3, 204.	1.7	317
245	Co-optimal distribution of leaf nitrogen and hydraulic conductance in plant canopies. <i>Tree Physiology</i> , 2012, 32, 510-519.	1.4	101
246	A non-asymptotic sigmoid growth curve for top height growth in forest stands. <i>Forestry</i> , 2012, 85, 353-368.	1.2	16
247	Simulation of morphogenetical gradients using a minimal functional-structural plant model (FSPM). , 2012, , .		1
248	Introduction to Phytoremediation of Contaminated Groundwater. , 2012, , .		15
249	Testing the equi-resistance principle of the xylem transport system in a small ash tree: empirical support from anatomical analyses. <i>Tree Physiology</i> , 2012, 32, 171-177.	1.4	36
250	Applying the dual-isotope conceptual model to interpret physiological trends under uncontrolled conditions. <i>Tree Physiology</i> , 2012, 32, 1183-1198.	1.4	61
252	Hydraulic determinism as a constraint on the evolution of organisms and ecosystems. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 547-557.	0.7	6
253	Salinity constrains size inequality and allometry in two contrasting mangrove habitats in the Gulf of Mexico. <i>Journal of Tropical Ecology</i> , 2012, 28, 171-179.	0.5	15
254	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
255	The vertical leaf distribution of <i>Ulmus laevis</i> Pall.. <i>Trees - Structure and Function</i> , 2012, 26, 1781-1792.	0.9	14
256	Height-related changes in stomatal conductance, chlorophyll Content index and diameter of rubber tree (<i>Hevea brasiliensis</i>) saplings. , 2012, , .		2
257	Energetics and forces of the <i>Dionaea muscipula</i> trap closing. <i>Journal of Plant Physiology</i> , 2012, 169, 55-64.	1.6	20
258	Differences in water use between mature and post-fire regrowth stands of subalpine <i>Eucalyptus delegatensis</i> R. Baker. <i>Forest Ecology and Management</i> , 2012, 270, 1-10.	1.4	39
259	Deriving individual tree competition indices from airborne laser scanning. <i>Forest Ecology and Management</i> , 2012, 280, 150-165.	1.4	25
260	Xylem Cavitation and Embolism in Plants Living in Water-Limited Ecosystems. , 2012, , 63-109.		37
261	Giant eucalypts – globally unique fire-adapted rain-forest trees?. <i>New Phytologist</i> , 2012, 196, 1001-1014.	3.5	95
262	Fundamentals of Plant Anatomy and Physiology Related to Water Use. , 2012, , 43-93.		1

#	ARTICLE	IF	CITATIONS
263	Elegance versus Speed: Examining the Competition between Conifer and Angiosperm Trees. <i>International Journal of Plant Sciences</i> , 2012, 173, 673-694.	0.6	133
264	Comprehensive Quantification of Monolignol-Pathway Enzymes in <i>Populus trichocarpa</i> by Protein Cleavage Isotope Dilution Mass Spectrometry. <i>Journal of Proteome Research</i> , 2012, 11, 3390-3404.	1.8	42
265	Variation of Maximum Tree Height and Annual Shoot Growth of Smith Fir at Various Elevations in the Sygera Mountains, Southeastern Tibetan Plateau. <i>PLoS ONE</i> , 2012, 7, e31725.	1.1	23
267	Variations in Leaf Photosynthetic and Morphological Traits with Tree Height in Various Tree Species in a Cambodian Tropical Dry Evergreen Forest. <i>Japan Agricultural Research Quarterly</i> , 2012, 46, 167-180.	0.1	32
268	Evapotranspiration and land cover transitions: long-term watershed response in recovering forested ecosystems. <i>Ecohydrology</i> , 2012, 5, 721-732.	1.1	12
269	Plant Selection, Installation, and Management to Affect Groundwater. , 2012, , 155-188.		0
270	Unravelling the limits to tree height: a major role for water and nutrient trade-offs. <i>Oecologia</i> , 2012, 169, 61-72.	0.9	26
271	Morphological and phenological shoot plasticity in a Mediterranean evergreen oak facing long-term increased drought. <i>Oecologia</i> , 2012, 169, 565-577.	0.9	79
272	Effects of different light conditions on the xylem structure of Norway spruce needles. <i>Trees - Structure and Function</i> , 2012, 26, 1079-1089.	0.9	16
273	Interspecific variation in leaf water use associated with drought tolerance in four emergent dipterocarp species of a tropical rain forest in Borneo. <i>Journal of Forest Research</i> , 2012, 17, 369-377.	0.7	26
274	Plant science in forest canopies – the first 30 years of advances and challenges (1980–2010). <i>New Phytologist</i> , 2012, 194, 12-27.	3.5	52
275	A general integrative framework for modelling woody biomass production and carbon sequestration rates in forests. <i>Journal of Ecology</i> , 2012, 100, 42-64.	1.9	92
276	Enhancing gap model accuracy by modeling dynamic height growth and dynamic maximum tree height. <i>Ecological Modelling</i> , 2012, 232, 133-143.	1.2	41
277	Stem xylem conductivity is key to plant water balance across Australian angiosperm species. <i>Functional Ecology</i> , 2012, 26, 343-352.	1.7	98
278	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
279	Why does needle photosynthesis decline with tree height in Norway spruce?. <i>Plant Biology</i> , 2012, 14, 306-314.	1.8	21
280	The maximum height of grasses is determined by roots. <i>Ecology Letters</i> , 2012, 15, 666-672.	3.0	66
281	What controls tropical forest architecture? Testing environmental, structural and floristic drivers. <i>Global Ecology and Biogeography</i> , 2012, 21, 1179-1190.	2.7	187

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282	Factors controlling plasticity of leaf morphology in <i>Robinia pseudoacacia</i> L. I: height-associated variation in leaf structure. <i>Annals of Forest Science</i> , 2012, 69, 29-37.	0.8	22
283	Factors controlling plasticity of leaf morphology in <i>Robinia pseudoacacia</i> L. II: the impact of water stress on leaf morphology of seedlings grown in a controlled environment chamber. <i>Annals of Forest Science</i> , 2012, 69, 39-47.	0.8	23
284	Soil properties affect pinyon pine " juniper response to drought. <i>Ecohydrology</i> , 2013, 6, 455-463.	1.1	46
286	Tree rings reveal extent of exposure to ionizing radiation in Scots pine <i>Pinus sylvestris</i> . <i>Trees - Structure and Function</i> , 2013, 27, 1443-1453.	0.9	31
287	Impact of eastern dwarf mistletoe (<i>Arceuthobium pusillum</i>) on host white spruce (<i>Picea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2013, 147, 502-513.	2.6	19
288	Ageing of trees: Application of general ageing theories. <i>Ageing Research Reviews</i> , 2013, 12, 855-866.	5.0	35
289	Crown structure and vertical foliage distribution in 4-year-old plantation-grown <i>Eucalyptus pilularis</i> and <i>Eucalyptus cloeziana</i> . <i>Trees - Structure and Function</i> , 2013, 27, 555-566.	0.9	15
290	Ontogenetic variations in leaf morphology of the tropical rain forest species <i>Dipterocarpus alatus</i> Roxb. ex G. Don. <i>Trees - Structure and Function</i> , 2013, 27, 773-786.	0.9	18
291	Carbon Storage in Terrestrial Ecosystems. , 2013, , 93-108.		2
292	Specific leaf area: a predictive model using dried samples. <i>Australian Journal of Botany</i> , 2013, 61, 350.	0.3	10
293	Environmental and physiological determinants of carbon isotope discrimination in terrestrial plants. <i>New Phytologist</i> , 2013, 200, 950-965.	3.5	475
294	Woody species diversity and forest structure from lowland to montane forest in Hyrcanian forest ecoregion. <i>Journal of Mountain Science</i> , 2013, 10, 609-620.	0.8	18
295	The Structure, Distribution, and Biomass of the World's Forests. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2013, 44, 593-622.	3.8	616
296	Managing climate change adaptation in forests: a case study from the U.S. Southwest. <i>Journal of Applied Ecology</i> , 2013, 50, 1311-1320.	1.9	42
297	Short-term dynamic shifts in woody plants in a montane mixed evergreen and deciduous broadleaved forest in central China. <i>Forest Ecology and Management</i> , 2013, 310, 740-746.	1.4	14
298	The effects of stand structure on specific needle area in closed-canopy Chinese pine plantations. <i>Journal of Forest Research</i> , 2013, 18, 445-453.	0.7	4
299	Physical Limits to Leaf Size in Tall Trees. <i>Physical Review Letters</i> , 2013, 110, 018104.	2.9	52
300	Seasonal and inter-annual variations in net ecosystem exchange of two old-growth forests in southern China. <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 257-265.	1.9	46

#	ARTICLE	IF	CITATIONS
301	What does optimization theory actually predict about crown profiles of photosynthetic capacity when models incorporate greater realism?. <i>Plant, Cell and Environment</i> , 2013, 36, 1547-1563.	2.8	89
302	Giant trees from the Middle Pleistocene of Northern Thailand. <i>Quaternary Science Reviews</i> , 2013, 65, 1-4.	1.4	5
303	Fluxes of Carbon, Water and Nutrients. , 2013, , 225-328.		0
304	Low mortality in tall tropical trees. <i>Ecology</i> , 2013, 94, 920-929.	1.5	34
305	The need for a canopy perspective to understand the importance of phenotypic plasticity for promoting species coexistence and light use complementarity in forest ecosystems. <i>Ecological Research</i> , 2013, 28, 191-198.	0.7	36
307	Mineral nutrition and elevated [CO ₂] interact to modify $\delta^{13}C$, an index of gas exchange, in Norway spruce. <i>Tree Physiology</i> , 2013, 33, 1132-1144.	1.4	21
308	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
309	Variation in leaf and twig CO ₂ flux as a function of plant size: a comparison of seedlings, saplings and trees. <i>Tree Physiology</i> , 2013, 33, 713-729.	1.4	36
310	Maintenance of xylem Network Transport Capacity: A Review of Embolism Repair in Vascular Plants. <i>Frontiers in Plant Science</i> , 2013, 4, 108.	1.7	248
311	Limits to the height growth of <i>Caragana korshinskii</i> resprouts. <i>Tree Physiology</i> , 2013, 33, 275-284.	1.4	17
312	The heterologous expression in <i>Arabidopsis thaliana</i> of sorghum transcription factor SbbHLH1 downregulates lignin synthesis. <i>Journal of Experimental Botany</i> , 2013, 64, 3021-3032.	2.4	44
313	Increased susceptibility to drought-induced mortality in <i>Sequoia sempervirens</i> (Cupressaceae) trees under Cenozoic atmospheric carbon dioxide starvation. <i>American Journal of Botany</i> , 2013, 100, 582-591.	0.8	51
314	Species-Specific and Ontogeny-Related Stem Allometry of European Forest Trees: Evidence from Extensive Stem Analyses. <i>Forest Science</i> , 2013, 59, 290-302.	0.5	18
315	The Heterogeneity and Spatial Patterning of Structure and Physiology across the Leaf Surface in Giant Leaves of <i>Alocasia macrorrhiza</i> . <i>PLoS ONE</i> , 2013, 8, e66016.	1.1	25
316	Functional Characterization of the Poplar R2R3-MYB Transcription Factor PtoMYB216 Involved in the Regulation of Lignin Biosynthesis during Wood Formation. <i>PLoS ONE</i> , 2013, 8, e76369.	1.1	99
317	Using Multispectral Spaceborne Imagery to Assess Mean Tree Height in a Dryland Plantation. <i>ISRN Forestry</i> , 2013, 2013, 1-8.	1.0	1
318	A System to Integrate Multiscaled Data Sources for Improving Terrestrial Carbon Balance Estimates. , 0, , 259-286.		1
319	Integrating Stand and Soil Properties to Understand Foliar Nutrient Dynamics during Forest Succession Following Slash-and-Burn Agriculture in the Bolivian Amazon. <i>PLoS ONE</i> , 2014, 9, e86042.	1.1	10

#	ARTICLE	IF	CITATIONS
320	Allometric Scaling and Resource Limitations Model of Tree Heights: Part 3. Model Optimization and Testing over Continental China. <i>Remote Sensing</i> , 2014, 6, 3533-3553.	1.8	17
321	The trunk and branches: more than a connecting drainpipe. , 0, , 51-101.		0
322	Comparing integrated stable isotope and eddy covariance estimates of water-use efficiency on a Mediterranean successional sequence. <i>Oecologia</i> , 2014, 176, 581-594.	0.9	20
323	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
324	Light drives vertical gradients of leaf morphology in a sugar maple (<i>Acer saccharum</i>) forest. <i>Tree Physiology</i> , 2014, 34, 146-158.	1.4	52
325	Spatial variability and temporal trends in water-use efficiency of European forests. <i>Global Change Biology</i> , 2014, 20, 3700-3712.	4.2	175
326	Elevational patterns of <i>Polylepis</i> tree height (Rosaceae) in the high Andes of Peru: role of human impact and climatic conditions. <i>Frontiers in Plant Science</i> , 2014, 5, 194.	1.7	30
327	Structural adjustments in resprouting trees drive differences in post-fire transpiration. <i>Tree Physiology</i> , 2014, 34, 123-136.	1.4	33
328	The world's tallest trees grow in thermally similar climates. <i>New Phytologist</i> , 2014, 202, 344-349.	3.5	47
329	Investigating water transport through the xylem network in vascular plants. <i>Journal of Experimental Botany</i> , 2014, 65, 1895-1904.	2.4	77
330	Carbon isotopic signatures of soil organic matter correlate with leaf area index across woody biomes. <i>Journal of Ecology</i> , 2014, 102, 1606-1611.	1.9	21
331	$\delta^{13}C$ enrichment at treeline: help or hindrance for trees on the edge?. <i>Plant, Cell and Environment</i> , 2014, 37, 312-314.	2.8	3
332	How to tell a shrub from a tree: A life-history perspective from a South African savanna. <i>Austral Ecology</i> , 2014, 39, 767-778.	0.7	36
333	Perennially young: seed production and quality in controlled and natural populations of <i>Cistus albidus</i> reveal compensatory mechanisms that prevent senescence in terms of seed yield and viability. <i>Journal of Experimental Botany</i> , 2014, 65, 287-297.	2.4	26
334	Predicting tree heights for biomass estimates in tropical forests – a test from French Guiana. <i>Biogeosciences</i> , 2014, 11, 3121-3130.	1.3	41
335	Application of Metabolic Scaling Theory to reduce error in local maxima tree segmentation from aerial LiDAR. <i>Forest Ecology and Management</i> , 2014, 323, 158-167.	1.4	38
336	3-PG simulations of young ponderosa pine plantations under varied management intensity: Why do they grow so differently?. <i>Forest Ecology and Management</i> , 2014, 313, 69-82.	1.4	21
337	Understorey dynamics after disturbance accelerate succession from spruce to beech-dominated forest – the Siggaboda case study. <i>Annals of Forest Science</i> , 2014, 71, 139-147.	0.8	25

#	ARTICLE	IF	CITATIONS
338	Effects of shoot position on shoot and leaf morphology of <i>Avicennia marina</i> in the hyperarid Red Sea coastal region of Egypt. <i>Landscape and Ecological Engineering</i> , 2014, 10, 285-293.	0.7	4
339	Converging patterns of vertical variability in leaf morphology and nitrogen across seven <i>Eucalyptus</i> plantations in Brazil and Hawaii, USA. <i>Trees - Structure and Function</i> , 2014, 28, 1-15.	0.9	32
340	Temperate forest development during secondary succession: effects of soil, dominant species and management. <i>European Journal of Forest Research</i> , 2014, 133, 511-523.	1.1	18
341	Differences between height- and light-dependent changes in shoot traits in five deciduous tree species. <i>Oecologia</i> , 2014, 174, 1-12.	0.9	18
342	Wood production response to climate change will depend critically on forest composition and structure. <i>Global Change Biology</i> , 2014, 20, 3632-3645.	4.2	87
343	Pushing the limits to tree height: could foliar water storage compensate for hydraulic constraints in <i>Quercus sempervirens</i> ? <i>Functional Ecology</i> , 2014, 28, 1087-1093.	1.7	56
344	Dynamics of leaf gas exchange, xylem and phloem transport, water potential and carbohydrate concentration in a realistic 3-D model tree crown. <i>Annals of Botany</i> , 2014, 114, 653-666.	1.4	49
345	Hydraulic limitation on maximum height of <i>Pinus strobus</i> trees in northern Minnesota, USA. <i>Trees - Structure and Function</i> , 2014, 28, 841-848.	0.9	5
346	Leaf functional traits vary with the adult height of plant species in forest communities. <i>Journal of Plant Ecology</i> , 2014, 7, 68-76.	1.2	13
347	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
348	Predicting species' range limits from functional traits for the tree flora of North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13739-13744.	3.3	90
349	A novel technique to model water uptake by plants in geotechnical centrifuge. <i>Geotechnique Letters</i> , 2014, 4, 244-249.	0.6	4
350	Why trees and shrubs but rarely trubs?. <i>Trends in Ecology and Evolution</i> , 2014, 29, 433-434.	4.2	46
351	Geographical variation in age-height relationships for dominant trees in Japanese cedar (<i>Cryptomeria japonica</i> D. Don) forests in Japan. <i>Journal of Forest Research</i> , 2014, 19, 305-316.	0.7	23
352	Biological soil crusts (biocrusts) as a model system in community, landscape and ecosystem ecology. <i>Biodiversity and Conservation</i> , 2014, 23, 1619-1637.	1.2	98
353	Steeper declines in forest photosynthesis than respiration explain age-driven decreases in forest growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8856-8860.	3.3	114
354	Longitudinal Variation of Ring Width, Wood Density and Basal Area Increment in 26-Year-Old Loblolly Pine (<i>Pinus taeda</i>) Trees. <i>Tree-Ring Research</i> , 2014, 70, 137-144.	0.4	7
355	Predicting the Formation of a New Upper Canopy Strata after Colonization of Native Shrublands by Pines. <i>Forest Science</i> , 2014, 60, 841-850.	0.5	5

#	ARTICLE	IF	CITATIONS
356	Hydrologic-response simulations for the North Fork of Caspar Creek: second-growth, clear-cut, new-growth, and cumulative watershed effect scenarios. <i>Hydrological Processes</i> , 2014, 28, 1476-1494.	1.1	16
357	Tree damage and microclimate of forest canopies along a hurricane-impact gradient in Cusuco National Park, Honduras. <i>Journal of Tropical Ecology</i> , 2014, 30, 457-467.	0.5	9
358	Newton and the ascent of water in plants. <i>Nature Plants</i> , 2015, 1, 15005.	4.7	6
359	Size-related scaling of tree form and function in a mixed-age forest. <i>Functional Ecology</i> , 2015, 29, 1587-1602.	1.7	39
360	Assessing the general patterns of forest structure: quantifying tree and forest allometric scaling relationships in the United States. <i>Global Ecology and Biogeography</i> , 2015, 24, 1465-1475.	2.7	69
361	Pit membrane structure is highly variable and accounts for a major resistance to water flow through tracheid pits in stems and roots of two boreal conifer species. <i>New Phytologist</i> , 2015, 208, 102-113.	3.5	45
362	Water availability predicts forest canopy height at the global scale. <i>Ecology Letters</i> , 2015, 18, 1311-1320.	3.0	87
364	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
365	Structural, physiognomic and above-ground biomass variation in savanna forest transition zones on three continents – how different are co-occurring savanna and forest formations?. <i>Biogeosciences</i> , 2015, 12, 2927-2951.	1.3	63
366	Variation of Oriental Oak (<i>Quercus variabilis</i>) Leaf $\delta^{13}C$ across Temperate and Subtropical China: Spatial Patterns and Sensitivity to Precipitation. <i>Forests</i> , 2015, 6, 2296-2306.	0.9	12
367	Characterizing Tropical Tree Species Growth Strategies: Learning from Inter-Individual Variability and Scale Invariance. <i>PLoS ONE</i> , 2015, 10, e0117028.	1.1	13
369	Plant hydraulic conductance adapts to shoot number but limits shoot vigour in grapevines. <i>Functional Plant Biology</i> , 2015, 42, 366.	1.1	24
370	Physiological and biochemical responses and microscopic structure changes of <i>Populus tomentosa</i> Carr seedlings to 4-BDE exposure. <i>Environmental Science and Pollution Research</i> , 2015, 22, 14258-14268.	2.7	5
371	The Hydraulic Architecture of Conifers. , 2015, , 39-75.		29
372	Effects of prolonged drought on the anatomy of sun and shade needles in young Norway spruce trees. <i>Ecology and Evolution</i> , 2015, 5, 4989-4998.	0.8	18
373	Constraint around Quarter-Power Allometric Scaling in Wild Tomatoes (<i>Solanum</i> sect.) <i>Tj ETQq1 1 0.784314 rrgBT /Overlock 10 T</i>	1.6	16
374	Height-related changes in leaf photosynthetic traits in diverse Bornean tropical rain forest trees. <i>Oecologia</i> , 2015, 177, 191-202.	0.9	85
375	The watering of tall trees – Embolization and recovery. <i>Journal of Theoretical Biology</i> , 2015, 369, 42-50.	0.8	15

#	ARTICLE	IF	CITATIONS
376	Growth maximization trumps maintenance of leaf conductance in the tallest angiosperm. <i>Oecologia</i> , 2015, 177, 321-331.	0.9	18
377	Light acclimation optimizes leaf functional traits despite height-related constraints in a canopy shading experiment. <i>Oecologia</i> , 2015, 177, 1131-1143.	0.9	46
378	Occurrence of stomatal patchiness and its spatial scale in leaves from various sizes of trees distributed in a South-east Asian tropical rainforest in Peninsular Malaysia. <i>Tree Physiology</i> , 2015, 35, 61-70.	1.4	10
379	Tree architecture varies with forest succession in evergreen broad-leaved forests in Eastern China. <i>Trees - Structure and Function</i> , 2015, 29, 43-57.	0.9	22
380	Strong phylogenetic signals and phylogenetic niche conservatism in ecophysiological traits across divergent lineages of Magnoliaceae. <i>Scientific Reports</i> , 2015, 5, 12246.	1.6	60
381	Wood Anatomy and Plant Hydraulics in a Changing Climate. , 2015, , 235-253.		36
382	Tree-Level Patterns of Lodgepole Pine Growth and Leaf Area in Yellowstone National Park: Explaining Anomalous Patterns of Growth Dominance Within Stands. <i>Ecosystems</i> , 2015, 18, 251-259.	1.6	20
383	A synthetic leaf: the biomimetic potential of graphene oxide. <i>Proceedings of SPIE</i> , 2015, , .	0.8	5
384	The influence of tree architecture, forest remnants, and dispersal syndrome on roadside epiphyte diversity in a highly urbanized tropical environment. <i>Biodiversity and Conservation</i> , 2015, 24, 2063-2077.	1.2	18
386	Functional and Ecological Xylem Anatomy. , 2015, , .		35
387	Facilitation promotes changes in leaf economics traits of a perennial forb. <i>Oecologia</i> , 2015, 179, 103-116.	0.9	26
388	How does biomass distribution change with size and differ among species? An analysis for 1200 plant species from five continents. <i>New Phytologist</i> , 2015, 208, 736-749.	3.5	239
389	Comparison of phloem and xylem hydraulic architecture in <i>Picea abies</i> stems. <i>New Phytologist</i> , 2015, 205, 102-115.	3.5	79
390	A review of selected pumping systems in nature and engineeringâ€™ potential biomimetic concepts for improving displacement pumps and pulsation damping. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 051001.	1.5	31
391	Leaf area allometrics and morphometrics in baldcypress. <i>Canadian Journal of Forest Research</i> , 2015, 45, 963-969.	0.8	8
392	A comparison of hydraulic architecture in three similarly sized woody species differing in their maximum potential height. <i>Tree Physiology</i> , 2015, 35, 723-731.	1.4	20
393	Separating effects of crown structure and competition for light on trunk growth of <i>Sequoia sempervirens</i> . <i>Forest Ecology and Management</i> , 2015, 358, 26-40.	1.4	12
394	Theoretical Analysis of Capillary Rise in Porous Media. <i>Transport in Porous Media</i> , 2015, 110, 141-155.	1.2	29

#	ARTICLE	IF	CITATIONS
395	Shifts in trait means and variances in North American tree assemblages: species richness patterns are loosely related to the functional space. <i>Ecography</i> , 2015, 38, 649-658.	2.1	89
396	<i>Progress in Botany. Progress in Botany Fortschritte Der Botanik</i> , 2015, , .	0.1	7
398	<i>Plant Strategies.</i> , 0, , 291-314.		0
399	Effect of the Gall Wasp <i>Leptocybe invasa</i> on Hydraulic Architecture in <i>Eucalyptus camaldulensis</i> Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 130.	1.7	11
401	Climate determines vascular traits in the ecologically diverse genus <i>Eucalyptus</i> . <i>Ecology Letters</i> , 2016, 19, 240-248.	3.0	137
402	Heavy and frequent thinning promotes drought adaptation in <i>Pinus sylvestris</i> forests. <i>Ecological Applications</i> , 2016, 26, 2190-2205.	1.8	95
403	Functional leaf traits of vascular epiphytes: vertical trends within the forest, intra- and interspecific trait variability, and taxonomic signals. <i>Functional Ecology</i> , 2016, 30, 188-198.	1.7	76
404	How are leaf mechanical properties and water-use traits coordinated by vein traits? A case study in <i>Agave</i> . <i>Functional Ecology</i> , 2016, 30, 527-536.	1.7	33
405	Pastoral and woodcutting activities drive <i>Cedrus atlantica</i> Mediterranean forest structure in the Moroccan Middle Atlas. <i>Ecological Applications</i> , 2016, 26, 574-586.	1.8	6
406	Trait coordination, mechanical behaviour and growth form plasticity of <i>Amborella trichopoda</i> under variation in canopy openness. <i>AoB PLANTS</i> , 2016, 8, .	1.2	17
407	Trees maintain a similar conductance per leaf area through integrated responses in growth, allocation, architecture and anatomy. <i>Tree Physiology</i> , 2016, 36, 1307-1309.	1.4	12
408	<i>Water Relations, Hydraulic Architecture and Transpiration by Plants.</i> , 0, , 110-152.		0
409	Water relations in tree physiology: where to from here?. <i>Tree Physiology</i> , 2017, 37, 18-32.	1.4	34
410	Vertical stratification of the foliar fungal community in the world's tallest trees. <i>American Journal of Botany</i> , 2016, 103, 2087-2095.	0.8	32
411	Seasonal and height-related changes in leaf morphological and photosynthetic traits of two dipterocarp species in a dry deciduous forest in Cambodia. <i>Plant Ecology and Diversity</i> , 2016, 9, 505-520.	1.0	9
412	Branch age and light conditions determine leaf-area-specific conductivity in current shoots of Scots pine. <i>Tree Physiology</i> , 2016, 36, 994-1006.	1.4	6
413	Phenotypic plasticity of leaves enhances water-stress tolerance and promotes hydraulic conductivity in a tall conifer. <i>American Journal of Botany</i> , 2016, 103, 796-807.	0.8	27
414	<i>Nonlinear and Multiplayer Evolutionary Games.</i> , 2016, , 95-115.		4

#	ARTICLE	IF	CITATIONS
416	A cell wall-bound anionic peroxidase, PtrPO21, is involved in lignin polymerization in <i>Populus trichocarpa</i> . <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	0.6	24
417	Turgidity-dependent petiole flexibility enables efficient water use by a tree subjected to water stress. <i>Journal of Theoretical Biology</i> , 2016, 398, 20-31.	0.8	9
418	Interplay of growth rate and xylem plasticity for optimal coordination of carbon and hydraulic economies in <i>Fraxinus ornus</i> trees. <i>Tree Physiology</i> , 2016, 36, 1310-1319.	1.4	33
419	Development of Height-Volume Relationships in Second Growth <i>Abies grandis</i> for Use with Aerial LiDAR. <i>Canadian Journal of Remote Sensing</i> , 2016, 42, 400-410.	1.1	17
420	Functional traits shape size-dependent growth and mortality rates of dry forest tree species. <i>Journal of Plant Ecology</i> , 0, , rtw103.	1.2	9
421	Impact of Haiyan on Philippine mangroves: Implications to the fate of the widespread monospecific <i>Rhizophora</i> plantations against strong typhoons. <i>Ocean and Coastal Management</i> , 2016, 132, 1-14.	2.0	52
422	Importance of tree height and social position for drought-related stress on tree growth and mortality. <i>Trees - Structure and Function</i> , 2016, 30, 1467-1482.	0.9	73
423	Tamm Review: Insights gained from light use and leaf growth efficiency indices. <i>Forest Ecology and Management</i> , 2016, 379, 232-242.	1.4	37
424	Hydraulic constraints modify optimal photosynthetic profiles in giant sequoia trees. <i>Oecologia</i> , 2016, 182, 713-730.	0.9	27
425	In vivodynamic analysis of water refilling in embolized xylem vessels of intact <i>Zea mays</i> leaves. <i>Annals of Botany</i> , 2016, 118, 1033-1042.	1.4	12
426	Global patterns and determinants of forest canopy height. <i>Ecology</i> , 2016, 97, 3265-3270.	1.5	81
427	Re-evaluation of individual diameter : height allometric models to improve biomass estimation of tropical trees. <i>Ecological Applications</i> , 2016, 26, 2376-2382.	1.8	25
428	Specific leaf area of European Larch (<i>Larix decidua</i> Mill.). <i>Trees - Structure and Function</i> , 2016, 30, 1237-1244.	0.9	25
429	How vertical patterns in leaf traits shift seasonally and the implications for modeling canopy photosynthesis in a temperate deciduous forest. <i>Tree Physiology</i> , 2016, 36, 1077-1091.	1.4	36
430	The relationship between trunk- and twigwood density shifts with tree size and species stature. <i>Forest Ecology and Management</i> , 2016, 372, 137-142.	1.4	19
431	Recent reduction in the frequency of frost accounts for most of the increased growth of a high elevation spruce forest in northwestern China. <i>Trees - Structure and Function</i> , 2016, 30, 1225-1236.	0.9	14
432	Function and structure of leaves contributing to increasing water storage with height in the tallest <i>Cryptomeria japonica</i> trees of Japan. <i>Trees - Structure and Function</i> , 2016, 30, 141-152.	0.9	31
433	Regional and historical factors supplement current climate in shaping global forest canopy height. <i>Journal of Ecology</i> , 2016, 104, 469-478.	1.9	55

#	ARTICLE	IF	CITATIONS
434	Forest Canopy Hydraulics. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 187-217.	1.0	7
435	Allometric exponents as a tool to study the influence of climate on the trade-off between primary and secondary growth in major north-eastern American tree species. <i>Annals of Botany</i> , 2016, 117, 551-563.	1.4	14
436	Inferring Bounded Evolution in Phenotypic Characters from Phylogenetic Comparative Data. <i>Systematic Biology</i> , 2016, 65, 651-661.	2.7	30
437	Ecological distribution of leaf stomata and trichomes among tree species in a Malaysian lowland tropical rain forest. <i>Journal of Plant Research</i> , 2016, 129, 625-635.	1.2	34
438	Pipe-model ratio distributions and branch foliage biomass: differences between two sympatric spruce species. <i>Scandinavian Journal of Forest Research</i> , 2016, 31, 8-18.	0.5	0
439	Time lags between crown and basal sap flows in tropical lianas and co-occurring trees. <i>Tree Physiology</i> , 2016, 36, 736-747.	1.4	20
440	Testing the environmental filtering concept in global drylands. <i>Journal of Ecology</i> , 2017, 105, 1058-1069.	1.9	156
441	Exploring the symbiont diversity of ancient western redcedars: arbuscular mycorrhizal fungi of long-lived hosts. <i>Molecular Ecology</i> , 2017, 26, 1586-1597.	2.0	4
442	Leaf trait plasticity in six forest tree species of central Amazonia. <i>Photosynthetica</i> , 2017, 55, 679-688.	0.9	19
443	The thermodynamics of protein aggregation reactions may underpin the enhanced metabolic efficiency associated with heterosis, some balancing selection, and the evolution of ploidy levels. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 126, 1-21.	1.4	8
444	Reproductive costs in <i>Acer saccharum</i> : exploring size-dependent relations between seed production and branch extension. <i>Trees - Structure and Function</i> , 2017, 31, 1179-1188.	0.9	8
445	Africa's highest mountain harbours Africa's tallest trees. <i>Biodiversity and Conservation</i> , 2017, 26, 103-113.	1.2	19
446	Unlimited niche packing in a Lotka-Volterra competition game. <i>Theoretical Population Biology</i> , 2017, 116, 1-17.	0.5	14
447	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
448	Plasticity in gas exchange physiology of mature Scots pine and European larch drive short- and long-term adjustments to changes in water availability. <i>Plant, Cell and Environment</i> , 2017, 40, 1972-1983.	2.8	12
449	Kinematic amplification strategies in plants and engineering. <i>Smart Materials and Structures</i> , 2017, 26, 063002.	1.8	21
450	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
451	Xylem Surfactants Introduce a New Element to the Cohesion-Tension Theory. <i>Plant Physiology</i> , 2017, 173, 1177-1196.	2.3	110

#	ARTICLE	IF	CITATIONS
452	Intraspecific trait variation can weaken interspecific trait correlations when assessing the whole-plant economic spectrum. <i>Ecology and Evolution</i> , 2017, 7, 8936-8949.	0.8	44
453	Experimental investigation of biomimetic self-pumping and self-adaptive transpiration cooling. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 056002.	1.5	24
454	Tree height strongly affects estimates of water-use efficiency responses to climate and CO ₂ using isotopes. <i>Nature Communications</i> , 2017, 8, 288.	5.8	97
455	Sugar export limits size of conifer needles. <i>Physical Review E</i> , 2017, 95, 042402.	0.8	16
456	Short-term selective thinning effects on hydraulic functionality of a temperate pine forest in eastern Canada. <i>Ecohydrology</i> , 2017, 10, e1780.	1.1	10
457	Water retained in tall <i>Cryptomeria japonica</i> leaves as studied by infrared micro-spectroscopy. <i>Tree Physiology</i> , 2017, 37, 1367-1378.	1.4	8
458	Maintenance of carbohydrate transport in tall trees. <i>Nature Plants</i> , 2017, 3, 965-972.	4.7	59
459	Biodiversity and climate determine the functioning of Neotropical forests. <i>Global Ecology and Biogeography</i> , 2017, 26, 1423-1434.	2.7	193
460	A Statistical Description of Plant Shoot Architecture. <i>Current Biology</i> , 2017, 27, 2078-2088.e3.	1.8	27
461	Coping with gravity: the foliar water relations of giant sequoia. <i>Tree Physiology</i> , 2017, 37, 1312-1326.	1.4	16
462	The wood from the trees: The use of timber in construction. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 333-359.	8.2	721
463	Water ascent in trees and lianas: the cohesion-tension theory revisited in the wake of Otto Renner. <i>Protoplasma</i> , 2017, 254, 627-633.	1.0	18
464	Evaluating the use of amber in palaeoatmospheric reconstructions: The carbon-isotope variability of modern and Cretaceous conifer resins. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 351-369.	1.6	34
465	Optimal plant water economy. <i>Plant, Cell and Environment</i> , 2017, 40, 881-896.	2.8	93
466	Effects of rainfall exclusion on leaf gas exchange traits and osmotic adjustment in mature canopy trees of <i>Dryobalanops aromatica</i> (Dipterocarpaceae) in a Malaysian tropical rain forest. <i>Tree Physiology</i> , 2017, 37, 1301-1311.	1.4	25
467	Canopy ecophysiology: exploring the terrestrial ecosystem frontier. <i>Tree Physiology</i> , 2017, 37, 1263-1268.	1.4	2
469	Leaf acclimation to light availability supports rapid growth in tall <i>Picea sitchensis</i> trees. <i>Tree Physiology</i> , 2017, 37, 1352-1366.	1.4	17
470	Canopy gradients in leaf functional traits for species that differ in growth strategies and shade tolerance. <i>Tree Physiology</i> , 2017, 37, 1415-1425.	1.4	30

#	ARTICLE	IF	CITATIONS
471	Effect of Leaf Water Potential on Internal Humidity and CO ₂ Dissolution: Reverse Transpiration and Improved Water Use Efficiency under Negative Pressure. <i>Frontiers in Plant Science</i> , 2017, 8, 54.	1.7	57
472	Modeling Tree Growth Taking into Account Carbon Source and Sink Limitations. <i>Frontiers in Plant Science</i> , 2017, 8, 182.	1.7	32
473	Growth and Its Relationship to Individual Genetic Diversity of Mountain Hemlock (<i>Tsuga mertensiana</i>) at Alpine Treeline in Alaska: Combining Dendrochronology and Genomics. <i>Forests</i> , 2017, 8, 418.	0.9	10
474	Palynology and the Ecology of the New Zealand Conifers. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	15
475	Vertical leaf mass per area gradient of mature sugar maple reflects both height-driven increases in vascular tissue and light-driven increases in palisade layer thickness. <i>Tree Physiology</i> , 2017, 37, 1337-1351.	1.4	27
476	Continuum mechanics at nanoscale: A tool to study trees' watering and recovery. <i>Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni</i> , 2017, 28, 415-449.	0.3	3
477	Hydraulic Architecture and Function of Tall Trees. <i>Journal of the Japanese Forest Society</i> , 2017, 99, 74-83.	0.1	3
478	Detecting the fingerprint of drought across Europe's forests: do carbon isotope ratios and stem growth rates tell similar stories?. <i>Forest Ecosystems</i> , 2017, 4, .	1.3	19
479	A Percolation-Based Approach to Scaling Infiltration and Evapotranspiration. <i>Water (Switzerland)</i> , 2017, 9, 104.	1.2	10
480	Regeneration Dynamics of Coast Redwood, a Sprouting Conifer Species: A Review with Implications for Management and Restoration. <i>Forests</i> , 2017, 8, 144.	0.9	24
481	A major trade-off between structural and photosynthetic investments operative across plant and needle ages in three Mediterranean pines. <i>Tree Physiology</i> , 2018, 38, 543-557.	1.4	38
482	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
483	Hydraulics play an important role in causing low growth rate and dieback of aging <i>Pinus sylvestris</i> var. <i>mongolica</i> trees in plantations of <i>Pinus koraiensis</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 1500-1511.	2.8	62
484	A global climate niche for giant trees. <i>Global Change Biology</i> , 2018, 24, 2875-2883.	4.2	15
485	The tree height-related spatial variances of tree sap flux density and its scale up to stand transpiration in a subtropical evergreen broadleaf forest. <i>Ecohydrology</i> , 2018, 11, e1979.	1.1	11
486	Drought sensitivity and stem growth variation of nine alien and native tree species on a productive forest site in Germany. <i>Agricultural and Forest Meteorology</i> , 2018, 256-257, 431-444.	1.9	37
487	New perspectives on the ecology of tree structure and tree communities through terrestrial laser scanning. <i>Interface Focus</i> , 2018, 8, 20170052.	1.5	76
488	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

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489	Increasing stomatal conductance in response to rising atmospheric CO ₂ . <i>Annals of Botany</i> , 2018, 121, 1137-1149.	1.4	52
490	Climate and fragmentation affect forest structure at the southern border of Amazonia. <i>Plant Ecology and Diversity</i> , 2018, 11, 13-25.	1.0	12
491	Identifying differences in carbohydrate dynamics of seedlings and mature trees to improve carbon allocation in models for trees and forests. <i>Environmental and Experimental Botany</i> , 2018, 152, 7-18.	2.0	115
492	Experimental investigation of self-pumping internal transpiration cooling. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 514-522.	2.5	24
493	Axial xylem architecture of <i>Larix decidua</i> exposed to CO ₂ enrichment and soil warming at the tree line. <i>Functional Ecology</i> , 2018, 32, 273-287.	1.7	27
494	Being John Harper: Using evolutionary ideas to improve understanding of global patterns in plant traits. <i>Journal of Ecology</i> , 2018, 106, 1-18.	1.9	122
495	Shoot growth of woody trees and shrubs is predicted by maximum plant height and associated traits. <i>Functional Ecology</i> , 2018, 32, 247-259.	1.7	29
496	Tree Growth Modelling Constrained by Growth Equations. <i>Computer Graphics Forum</i> , 2018, 37, 239-253.	1.8	12
497	Analysis of forest structural complexity using airborne LiDAR data and aerial photography in a mixed conifer-broadleaf forest in northern Japan. <i>Journal of Forestry Research</i> , 2018, 29, 479-493.	1.7	16
498	Modeling net CO ₂ assimilation (<i>A_N</i>) within the crown of young planted <i>Larix olgensis</i> trees. <i>Canadian Journal of Forest Research</i> , 2018, 48, 1085-1098.	0.8	7
501	Dendrochronological analysis of <i>Sequoia sempervirens</i> in an interior old-growth forest. <i>Dendrochronologia</i> , 2018, 52, 29-39.	1.0	5
502	Spatial and Seasonal Variations of Standardized Photosynthetic Parameters under Different Environmental Conditions for Young Planted <i>Larix olgensis</i> Henry Trees. <i>Forests</i> , 2018, 9, 522.	0.9	6
503	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
504	How functional traits influence plant growth and shade tolerance across the life cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6789-E6798.	3.3	90
505	The value of wet leaves. <i>New Phytologist</i> , 2018, 219, 1156-1169.	3.5	162
506	Whole-genome re-sequencing reveals molecular mechanisms of biomass changes in 11-year-old Bt transgenic poplar. <i>Trees - Structure and Function</i> , 2018, 32, 1609-1620.	0.9	2
507	Stock Volume Dependency of Forest Drought Responses in Yunnan, China. <i>Forests</i> , 2018, 9, 209.	0.9	9
508	Visualizing Individual Tree Differences in Tree-Ring Studies. <i>Forests</i> , 2018, 9, 216.	0.9	15

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509	Age-Effect on Intra-Annual $\delta^{13}\text{C}$ -Variability within Scots Pine Tree-Rings from Central Siberia. <i>Forests</i> , 2018, 9, 364.	0.9	14
510	Static site indices from different national forest inventories: harmonization and prediction from site conditions. <i>Annals of Forest Science</i> , 2018, 75, 1.	0.8	29
511	Global importance of large-diameter trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 849-864.	2.7	330
512	Buckling and Wrinkling: Valuable Topics in Mechanics Class. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2018, 144, .	0.9	3
513	Water transport through tall trees: A vertically explicit, analytical model of xylem hydraulic conductance in stems. <i>Plant, Cell and Environment</i> , 2018, 41, 1821-1839.	2.8	36
514	Transport efficiency and cavitation resistance in developing shoots: a risk worth taking. <i>Tree Physiology</i> , 2018, 38, 1085-1087.	1.4	5
515	Limits to Tree Growth and Longevity. <i>Trends in Plant Science</i> , 2018, 23, 985-993.	4.3	47
516	Carbon exchange in an Amazon forest: from hours to years. <i>Biogeosciences</i> , 2018, 15, 4833-4848.	1.3	20
517	Quantifying aboveground components of <i>Picea sitchensis</i> for allometric comparisons among tall conifers in North American rainforests. <i>Forest Ecology and Management</i> , 2018, 430, 59-77.	1.4	25
518	Monitoring individual tree-based change with airborne lidar. <i>Ecology and Evolution</i> , 2018, 8, 5079-5089.	0.8	46
519	Hydraulic limitations in dominant trees as a contributing mechanism to the age-related growth decline of boreal forest stands. <i>Forest Ecology and Management</i> , 2018, 427, 135-142.	1.4	17
520	The beginning of herding and animal management: the early development of caprine herding on the Konya plain, central Anatolia. <i>Anatolian Studies</i> , 2018, 68, 1-31.	0.6	13
521	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
522	Coexistence and the niche in a nurse-cactus interaction: Is cyclic dynamics justified?. <i>Journal of Ecology</i> , 2019, 107, 407-417.	1.9	7
523	Crown damage and the mortality of tropical trees. <i>New Phytologist</i> , 2019, 221, 169-179.	3.5	30
524	<i>Plant Ecology</i> , 2019, , 528-548.		7
525	Constant theoretical conductance via changes in vessel diameter and number with height growth in <i>Moringa oleifera</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 5765-5772.	2.4	15
526	Deepening Rooting Depths Improve Plant Water and Carbon Status of a Xeric Tree during Summer Drought. <i>Forests</i> , 2019, 10, 592.	0.9	6

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527	Carbonâ€“water flux coupling under progressive drought. <i>Biogeosciences</i> , 2019, 16, 2557-2572.	1.3	24
528	When and why do trees begin to decrease their resource allocation to apical growth? The importance of the reproductive onset. <i>Oecologia</i> , 2019, 191, 39-49.	0.9	2
529	Strong Wet and Dry Adhesion by Cupped Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26483-26490.	4.0	58
530	Drought Enhances the Role of Competition in Mediating the Relationship between Tree Growth and Climate in Semi-Arid Areas of Northwest China. <i>Forests</i> , 2019, 10, 804.	0.9	11
531	Modelling the Effect of Microsite Influences on the Growth and Survival of Juvenile <i>Eucalyptus globoidea</i> (Blakely) and <i>Eucalyptus bosistoana</i> (F. Muell) in New Zealand. <i>Forests</i> , 2019, 10, 857.	0.9	5
532	Environmental factors and wood qualities of African blackwood, <i>Dalbergia melanoxylon</i> , in Tanzanian Miombo natural forest. <i>Journal of Wood Science</i> , 2019, 65, .	0.9	7
533	Tree height explains mortality risk during an intense drought. <i>Nature Communications</i> , 2019, 10, 4385.	5.8	191
534	Evaluating the Effect of Imidacloprid Administered in Artificial Diet on Feeding Behavior of <i>Diaphorina citri</i> (Hemiptera: Liviidae) Using Electropenetrography. <i>Journal of Economic Entomology</i> , 2019, 112, 644-652.	0.8	4
535	Distinguishing the signatures of local environmental filtering and regional trait range limits in the study of traitâ€“environment relationships. <i>Oikos</i> , 2019, 128, 960-971.	1.2	19
536	Leaf economics and plant hydraulics drive leaf : wood area ratios. <i>New Phytologist</i> , 2019, 224, 1544-1556.	3.5	77
537	Sugar maple (<i>Acer saccharum</i> Marsh.) shoot architecture reveals coordinated ontogenetic changes between shoot specialization and branching pattern. <i>Trees - Structure and Function</i> , 2019, 33, 1615-1625.	0.9	5
538	The World's Tallest Tropical Tree in Three Dimensions. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	38
539	An expanded allometric model for crowns of four co-existing desert shrubs. <i>Trees - Structure and Function</i> , 2019, 33, 1423-1433.	0.9	2
540	Convergence in Maximum Stomatal Conductance of C3 Woody Angiosperms in Natural Ecosystems Across Bioclimatic Zones. <i>Frontiers in Plant Science</i> , 2019, 10, 558.	1.7	22
541	Soil moisture regime and palm height influence embolism resistance in oil palm. <i>Tree Physiology</i> , 2019, 39, 1696-1712.	1.4	8
542	Patterns and ecological determinants of woody plant height in eastern Eurasia and its relation to primary productivity. <i>Journal of Plant Ecology</i> , 2019, 12, 791-803.	1.2	15
543	Limited capacity of tree growth to mitigate the global greenhouse effect under predicted warming. <i>Nature Communications</i> , 2019, 10, 2171.	5.8	92
544	Dynamic Simulation of the Crown Net Photosynthetic Rate for Young <i>Larix olgensis</i> Henry Trees. <i>Forests</i> , 2019, 10, 321.	0.9	6

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545	Axial variation of xylem conduits in the Earth's tallest trees. <i>Trees - Structure and Function</i> , 2019, 33, 1299-1311.	0.9	23
546	NO LARGE BIAS WITHIN SPECIES BETWEEN THE RECONSTRUCTED AREAS OF COMPLETE AND FRAGMENTED FOSSIL LEAVES. <i>Palaios</i> , 2019, 34, 43-48.	0.6	4
547	Influence of dry season on <i>Quercus suber</i> L. leaf traits in the Iberian Peninsula. <i>American Journal of Botany</i> , 2019, 106, 656-666.	0.8	5
548	Flourishing Smart Flexible Membranes Beyond Paper. <i>Analytical Chemistry</i> , 2019, 91, 4224-4234.	3.2	13
549	Modification of a photosynthetic light-response (PLR) model for modeling the vertical gradient in the response of crown PLR curves. <i>Canadian Journal of Forest Research</i> , 2019, 49, 949-959.	0.8	5
550	Island woodiness underpins accelerated disparification in plant radiations. <i>New Phytologist</i> , 2019, 224, 518-531.	3.5	56
551	Self-Stabilizing Transpiration in Synthetic Leaves. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13768-13776.	4.0	14
552	Tropical tree height and crown allometries for the Barro Colorado Nature Monument, Panama: a comparison of alternative hierarchical models incorporating interspecific variation in relation to life history traits. <i>Biogeosciences</i> , 2019, 16, 847-862.	1.3	34
553	An assessment of height-diameter growth variation in an unmanaged <i>Fagus orientalis</i> -dominated forest. <i>European Journal of Forest Research</i> , 2019, 138, 607-621.	1.1	23
554	Variation in leaf morphological, stomatal, and anatomical traits and their relationships in temperate and subtropical forests. <i>Scientific Reports</i> , 2019, 9, 5803.	1.6	61
555	Climate Change Impacts on <i>Pinus pinea</i> L. Silvicultural System for Cone Production and Ways to Contour Those Impacts: A Review Complemented with Data from Permanent Plots. <i>Forests</i> , 2019, 10, 169.	0.9	22
556	Prediction of groundwater depth in an arid region based on maximum tree height. <i>Journal of Hydrology</i> , 2019, 574, 46-52.	2.3	17
557	Variation in tree growth sensitivity to moisture across a water-limited forest landscape. <i>Dendrochronologia</i> , 2019, 54, 87-96.	1.0	8
558	The Smaller the Leaf Is, the Faster the Leaf Water Loses in a Temperate Forest. <i>Frontiers in Plant Science</i> , 2019, 10, 58.	1.7	37
559	Scaling of phloem hydraulic resistance in stems and leaves of the understory angiosperm shrub <i>Illicium parviflorum</i> . <i>American Journal of Botany</i> , 2019, 106, 244-259.	0.8	8
560	A meta-analysis shows that seaweeds surpass plants, setting life-on-Earth's limit for biomass packing. <i>BMC Ecology</i> , 2019, 19, 6.	3.0	15
561	Within-crown plasticity in leaf traits among the tallest conifers. <i>American Journal of Botany</i> , 2019, 106, 174-186.	0.8	14
562	The degree of fine-tuning in our universe "and others. <i>Physics Reports</i> , 2019, 807, 1-111.	10.3	27

#	ARTICLE	IF	CITATIONS
563	Hydraulic traits are coordinated with maximum plant height at the global scale. <i>Science Advances</i> , 2019, 5, eaav1332.	4.7	113
564	Is tree age or tree size reducing height increment in <i>Abies alba</i> Mill. at its southernmost distribution limit?. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	22
565	Inbreeding depression and differential maladaptation shape the fitness trajectory of two co-occurring <i>Eucalyptus</i> species. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	32
566	Characterizing wood density–climate relationships along the stem in black spruce (<i>Picea mariana</i>) Tj ETQq1 1 0.784314 rgBT /Over bo 2019, 92, 357-374.	1.2	5
567	Axial sampling height outperforms site as predictor of wood trait variation. <i>IAWA Journal</i> , 2019, 40, 191-S3.	2.7	16
568	Rising CO ₂ drives divergence in water use efficiency of evergreen and deciduous plants. <i>Science Advances</i> , 2019, 5, eaax7906.	4.7	56
569	Vitality loss of European beech (<i>Fagus sylvatica</i> L.) and infestation by the European beech splendour beetle (<i>Agrilus viridis</i> L., Buprestidae, Coleoptera). <i>Forest Ecology and Management</i> , 2019, 432, 150-156.	1.4	14
570	Height-related variations of leaf traits reflect strategies for maintaining photosynthetic and hydraulic homeostasis in mature and old <i>Pinus densiflora</i> trees. <i>Oecologia</i> , 2019, 189, 317-328.	0.9	15
571	More than climate? Predictors of tree canopy height vary with scale in complex terrain, Sierra Nevada, CA (USA). <i>Forest Ecology and Management</i> , 2019, 434, 142-153.	1.4	32
572	When Short Stature Is an Asset in Trees. <i>Trends in Ecology and Evolution</i> , 2019, 34, 193-199.	4.2	53
573	Planetary mass, vegetation height and climate. <i>International Journal of Astrobiology</i> , 2019, 18, 477-482.	0.9	1
574	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
575	Factors influencing the accuracy of ground-based tree-height measurements for major European tree species. <i>Journal of Environmental Management</i> , 2019, 231, 1284-1292.	3.8	31
576	Size matters—a comparison of three methods to assess age- and size-dependent climate sensitivity of trees. <i>Trees - Structure and Function</i> , 2019, 33, 183-192.	0.9	54
577	Environmental landscape determinants of maximum forest canopy height of boreal forests. <i>Journal of Plant Ecology</i> , 2019, 12, 96-102.	1.2	7
578	Do increasing respiratory costs explain the decline with age of forest growth rate?. <i>Journal of Forestry Research</i> , 2020, 31, 693-712.	1.7	28
579	Extensive mismatches between species distributions and performance and their relationship to functional traits. <i>Ecology Letters</i> , 2020, 23, 33-44.	3.0	34
580	The geographic and climatic distribution of plant height diversity for 19,000 angiosperms in China. <i>Biodiversity and Conservation</i> , 2020, 29, 487-502.	1.2	10

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581	Evaluating Stasis in <i>Metasequoia</i> (Cupressaceae): Testing the Relationship between Leaf Traits and Climate. <i>International Journal of Plant Sciences</i> , 2020, 181, 157-174.	0.6	5
582	Water potential control of turgor-driven tracheid enlargement in Scots pine at its xeric distribution edge. <i>New Phytologist</i> , 2020, 225, 209-221.	3.5	73
583	Power-law estimation of branch growth. <i>Ecological Modelling</i> , 2020, 416, 108900.	1.2	13
584	Morphological, structural and physiological differences in heteromorphic leaves of <i>Euphrates</i> poplar during development stages and at crown scales. <i>Plant Biology</i> , 2020, 22, 366-375.	1.8	22
585	Variations in leaf economics spectrum traits for an evergreen coniferous species: Tree size dominates over environment factors. <i>Functional Ecology</i> , 2020, 34, 458-467.	1.7	27
586	Mapping three-dimensional variation in leaf mass per area with imaging spectroscopy and lidar in a temperate broadleaf forest. <i>Remote Sensing of Environment</i> , 2020, 250, 112043.	4.6	16
587	Landscape scale variation in the hydrologic niche of California coast redwood. <i>Ecography</i> , 2020, 43, 1305-1315.	2.1	5
588	New 3D measurements of large redwood trees for biomass and structure. <i>Scientific Reports</i> , 2020, 10, 16721.	1.6	22
589	Biomimetic Antigravity Water Transport and Remote Harvesting Powered by Sunlight. <i>Global Challenges</i> , 2020, 4, 2000043.	1.8	9
590	The course of tree growth. Theory and reality. <i>Forest Ecology and Management</i> , 2020, 478, 118508.	1.4	38
591	Inter-annual growth response of three Miombo tree species to climatic effects. <i>Southern Forests</i> , 2020, 82, 135-147.	0.2	3
592	Weaker Light Response, Lower Stomatal Conductance and Structural Changes in Old Boreal Conifers Implied by a Bayesian Hierarchical Model. <i>Frontiers in Plant Science</i> , 2020, 11, 579319.	1.7	2
593	Drought-modulated allometric patterns of trees in semi-arid forests. <i>Communications Biology</i> , 2020, 3, 405.	2.0	19
594	Functional traits: Adaption of ferns in forest. <i>Journal of Systematics and Evolution</i> , 2021, 59, 1040-1050.	1.6	8
595	Topographic Factors and Tree Heights of Aged <i>Cryptomeria japonica</i> Plantations in the Boso Peninsula, Japan. <i>Forests</i> , 2020, 11, 771.	0.9	4
596	A new phenomenological model to describe root-soil interactions based on percolation theory. <i>Ecological Modelling</i> , 2020, 433, 109205.	1.2	9
597	Age Dynamics of Wind Risk and Tree Sway Characteristics in a Softwood Plantation. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	7
598	The case for a Casimir cosmology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190229.	1.6	15

#	ARTICLE	IF	CITATIONS
599	Even when the seasons change our allometry stays the same. A Commentary on: “Corner’s rules pass the test of time: little effect of phenology on leaf-shoot and other scaling relationships”. <i>Annals of Botany</i> , 2020, 126, iii-iv.	1.4	1
600	Water Adsorption to Leaves of Tall <i>Cryptomeria japonica</i> Tree Analyzed by Infrared Spectroscopy under Relative Humidity Control. <i>Plants</i> , 2020, 9, 1107.	1.6	3
601	Computational fluid dynamics model and flow resistance characteristics of <i>Jatropha curcas</i> L xylem vessel. <i>Scientific Reports</i> , 2020, 10, 14728.	1.6	8
602	Forest carbon sink neutralized by pervasive growth-lifespan trade-offs. <i>Nature Communications</i> , 2020, 11, 4241.	5.8	122
603	Mechanism and Compatibility of Pretreated Lignocellulosic Biomass and Polymeric Mixed Matrix Membranes: A Review. <i>Membranes</i> , 2020, 10, 370.	1.4	16
604	Detecting Growth Phase Shifts Based on Leaf Trait Variation of a Canopy Dipterocarp Tree Species (<i>Parashorea chinensis</i>). <i>Forests</i> , 2020, 11, 1145.	0.9	6
605	Adaptation to drought is coupled with slow growth, but independent from phenology in marginal silver fir (<i>Abies alba</i> Mill.) populations. <i>Evolutionary Applications</i> , 2020, 13, 2357-2376.	1.5	26
606	Leafing intensity decreases with increasing water table depth and plant height in <i>Populus euphratica</i> , a desert riparian species. <i>Acta Oecologica</i> , 2020, 109, 103672.	0.5	4
607	Strong overestimation of water-use efficiency responses to rising CO ₂ in tree-ring studies. <i>Global Change Biology</i> , 2020, 26, 4538-4558.	4.2	36
608	Active ion transport as the basis for water movement in plants. <i>Journal of Theoretical Biology</i> , 2020, 500, 110332.	0.8	2
609	Sampling trees to develop allometric biomass models: How does tree selection affect model prediction accuracy and precision?. <i>Ecological Indicators</i> , 2020, 117, 106553.	2.6	11
610	Topography consistently drives intra- and inter-specific leaf trait variation within tree species complexes in a Neotropical forest. <i>Oikos</i> , 2020, 129, 1521-1530.	1.2	28
611	On the sunny side of the crown “ quantification of intra-canopy SLA variation among 179 taxa. <i>Forest Ecology and Management</i> , 2020, 472, 118254.	1.4	10
612	Coping with branch excision when measuring leaf net photosynthetic rates in a lowland tropical forest. <i>Biotropica</i> , 2020, 52, 608-615.	0.8	17
613	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material [†] . <i>Chinese Journal of Chemistry</i> , 2020, 38, 823-829.	2.6	21
614	Forest responses to simulated elevated CO ₂ under alternate hypotheses of size- and age-dependent mortality. <i>Global Change Biology</i> , 2020, 26, 5734-5753.	4.2	18
615	Circumferential and Longitudinal δ ¹³ C Variability in a <i>Larix decidua</i> Trunk from the Swiss Alps. <i>Forests</i> , 2020, 11, 117.	0.9	7
616	Optimization of leaf morphology in relation to leaf water status: A theory. <i>Ecology and Evolution</i> , 2020, 10, 1510-1525.	0.8	13

#	ARTICLE	IF	CITATIONS
617	Analogous losses of large animals and trees, socio-ecological consequences, and an integrative framework for rewilding-based megabiota restoration. <i>People and Nature</i> , 2020, 2, 29-41.	1.7	19
618	Water relations and nutrient uptake. , 2020, , 105-127.		2
619	Partitioning of assimilates. , 2020, , 149-198.		0
620	Passive water ascent in a tall, scalable synthetic tree. <i>Scientific Reports</i> , 2020, 10, 230.	1.6	13
621	Testing Finch's hypothesis: The role of organismal modularity on the escape from actuarial senescence. <i>Functional Ecology</i> , 2020, 34, 88-106.	1.7	19
622	If Jeanne Calment Were 122, That Is All the More Reason for Biosampling. <i>Rejuvenation Research</i> , 2020, 23, 48-64.	0.9	0
623	Morphological and physiological responses of the potato stem transport tissues to dehydration stress. <i>Planta</i> , 2020, 251, 45.	1.6	19
624	Plant responses to decadal scale increments in atmospheric CO ₂ concentration: comparing two stomatal conductance sampling methods. <i>Planta</i> , 2020, 251, 52.	1.6	4
625	Freeze-thaw events delay spring budburst and leaf expansion while longer photoperiods have opposite effect under different [CO ₂] in white birch: Advance it under elevated but delay it under ambient [CO ₂]. <i>Environmental and Experimental Botany</i> , 2020, 173, 103982.	2.0	10
626	Correcting tree-ring $\delta^{13}C$ time series for tree-size effects in eight temperate tree species. <i>Tree Physiology</i> , 2020, 40, 333-349.	1.4	17
628	Transpiration Mechanism in Confined Nanopores. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3637-3641.	2.1	11
629	Wettability of Wood Surface Layer Examined From Chemical Change Perspective. <i>Coatings</i> , 2020, 10, 257.	1.2	8
630	Shifts in taxonomic and functional composition of trees along rainfall and phosphorus gradients in central Panama. <i>Journal of Ecology</i> , 2021, 109, 51-61.	1.9	21
631	Does individual-tree biomass growth increase continuously with tree size?. <i>Forest Ecology and Management</i> , 2021, 481, 118717.	1.4	23
632	Comparative development of the four tallest conifer species. <i>Forest Ecology and Management</i> , 2021, 480, 118688.	1.4	13
633	Effects of plant morphology on root-soil hydraulic interactions of <i>Schefflera heptaphylla</i> . <i>Canadian Geotechnical Journal</i> , 2021, 58, 666-681.	1.4	10
634	Tip-to-base xylem conduit widening as an adaptation: causes, consequences, and empirical priorities. <i>New Phytologist</i> , 2021, 229, 1877-1893.	3.5	72
635	The mechanical stability of the world's tallest broadleaf trees. <i>Biotropica</i> , 2021, 53, 110-120.	0.8	20

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636	Quantifying regional trends in large live tree and snag availability in support of forest management. <i>Forest Ecology and Management</i> , 2021, 479, 118554.	1.4	22
637	Regional coordination between riparian dependence and atmospheric demand in willows (<i>Salix</i>) Tj ETQq1 1 0.784314 ggBT /Over	1.9	1
638	Resource availability and disturbance shape maximum tree height across the Amazon. <i>Global Change Biology</i> , 2021, 27, 177-189.	4.2	26
639	Size dependent associations between tree diameter growth rates and functional traits in an Asian tropical seasonal rainforest. <i>Functional Plant Biology</i> , 2021, 48, 231.	1.1	6
640	The influence of scion donor tree age on the growth and morphogenesis of Siberian stone pine grafts. <i>New Forests</i> , 2021, 52, 473-491.	0.7	4
641	Intraspecific trait variation in plants: a renewed focus on its role in ecological processes. <i>Annals of Botany</i> , 2021, 127, 397-410.	1.4	143
642	Fate of forest tree biotechnology facing climate change. <i>Silvae Genetica</i> , 2021, 70, 117-136.	0.4	1
643	Estimating Net Primary Productivity (NPP) and Debris-Fall in Forests Using Lidar Time Series. <i>Remote Sensing</i> , 2021, 13, 891.	1.8	2
644	Maximum height of mountain forests abruptly decreases above an elevation breakpoint. <i>GIScience and Remote Sensing</i> , 2021, 58, 442-454.	2.4	7
645	Performing gas-exchange measurements on excised branches - evaluation and recommendations. <i>Photosynthetica</i> , 2021, 59, 61-73.	0.9	4
646	Effects of ontogenetic stage and leaf age on leaf functional traits and the relationships between traits in <i>Pinus koraiensis</i> . <i>Journal of Forestry Research</i> , 2021, 32, 2459-2471.	1.7	11
647	Spontaneous Imbibition Dynamics of Liquids in Partially-Wet Nanoporous Media: Experiment and Theory. <i>Transport in Porous Media</i> , 2021, 137, 555-574.	1.2	18
648	Evolutionary relationships between drought-related traits and climate shape large hydraulic safety margins in western North American oaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	41
649	Artificial shade shelters mitigate harsh microclimate conditions and enhance growth in tropical tree seedlings planted in degraded land. <i>Tropics</i> , 2021, 29, 121-132.	0.2	2
650	Optimal carbon partitioning helps reconcile the apparent divergence between optimal and observed canopy profiles of photosynthetic capacity. <i>New Phytologist</i> , 2021, 230, 2246-2260.	3.5	11
651	Growth Relationships in Silver Fir Stands at Their Lower-Altitude Limit in Romania. <i>Forests</i> , 2021, 12, 439.	0.9	3
652	Evaluating Long-Term Seedling Growth Across Densities Using Nelder Plots and the Forest Vegetation Simulator (FVS) in the Black Hills, South Dakota, USA. <i>Forest Science</i> , 2021, 67, 380-388.	0.5	1
653	Effects of clear-cutting, meteorological, and physiological factors on evapotranspiration in the Kamabuchi experimental watershed in northern Japan. <i>Hydrological Processes</i> , 2021, 35, e14111.	1.1	6

#	ARTICLE	IF	CITATIONS
654	Effects of biotic and abiotic factors on forest biomass fractions. National Science Review, 2021, 8, nwab025.	4.6	28
655	Nano-confinement effects on liquid pressure. Physics of Fluids, 2021, 33, .	1.6	9
656	Effects of environmental factors on plant functional traits across different plant life forms in a temperate forest ecosystem. New Forests, 2022, 53, 125-142.	0.7	19
657	Site-level soil moisture controls water-use efficiency improvement and climate response in sugar maple: a dual dendroisotopic study. Canadian Journal of Forest Research, 2021, 51, 692-703.	0.8	1
658	Half-leaf width symmetric distribution reveals buffering strategy of <i>Cunninghamia lanceolata</i> . BMC Plant Biology, 2021, 21, 222.	1.6	2
659	Wind and gravity in shaping <i>Picea</i> trunks. Trees - Structure and Function, 2021, 35, 1587-1599.	0.9	2
660	The dynamics of stem water storage in the tops of Earth's largest trees" <i>Sequoiadendron giganteum</i> . Tree Physiology, 2021, 41, 2262-2278.	1.4	8
661	Synthetic trees for enhanced solar evaporation and water harvesting. Applied Physics Letters, 2021, 118, .	1.5	9
662	Increased hydraulic constraints in <i>Eucalyptus</i> plantations fertilized with potassium. Plant, Cell and Environment, 2021, 44, 2938-2950.	2.8	4
663	Effects of Throughfall Exclusion on Photosynthetic Traits in Mature Japanese Cedar (<i>Cryptomeria</i>) Tj ETQq1 1 0.784314 rgBT /Overloc	0.9	6
664	Forest Structure and Composition under Contrasting Precipitation Regimes in the High Mountains, Western Nepal. Sustainability, 2021, 13, 7510.	1.6	3
665	Morphological trait as a determining factor for <i>Populus simonii</i> Carr. to survive from drought in semi-arid region. Agricultural Water Management, 2021, 253, 106943.	2.4	7
667	Turgor-limited predictions of tree growth, height and metabolic scaling over tree lifespans. Tree Physiology, 2022, 42, 229-252.	1.4	11
668	Perennial Grass Seedlings Modify Biomass and Physiological Traits in Response to an Annual Grass Neighbor. Rangeland Ecology and Management, 2021, 77, 93-100.	1.1	1
669	Long-term response in nutrient load from commercial forest management operations in a mountainous watershed. Forest Ecology and Management, 2021, 494, 119312.	1.4	5
670	Is there tree senescence? The fecundity evidence. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	42
671	Lifshitz cosmology: quantum vacuum and Hubble tension. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3473-3485.	1.6	10
672	Tree Mortality: Testing the Link Between Drought, Embolism Vulnerability, and Xylem Conduit Diameter Remains a Priority. Frontiers in Forests and Global Change, 2021, 4, .	1.0	21

#	ARTICLE	IF	CITATIONS
673	Simulating the canopy photosynthesis of Qinghai spruce (<i>Picea crassifolia</i> Kom.) in the Qilian Mountains, Northwestern China. <i>New Forests</i> , 0, , 1.	0.7	1
674	Araucarian woodlands from the Jurassic of Patagonia, taphonomy and paleoecology. <i>Journal of South American Earth Sciences</i> , 2021, 109, 103324.	0.6	5
675	Disjoining Pressure of Water in Nanochannels. <i>Nano Letters</i> , 2021, 21, 7769-7774.	4.5	8
676	Prediction of branch growth using quantile regression and mixed-effects models: An example with planted <i>Larix olgensis</i> Henry trees in Northeast China. <i>Forest Ecology and Management</i> , 2021, 496, 119407.	1.4	17
677	Simulating tree growth response to climate change in structurally diverse oak and beech forests. <i>Science of the Total Environment</i> , 2022, 806, 150422.	3.9	15
678	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
679	Canopy and understorey tree guilds respond differently to the environment in an Indian rain forest. <i>Journal of Vegetation Science</i> , 2021, 32, e13075.	1.1	0
680	Tree resistance and recovery from drought mediated by multiple abiotic and biotic processes across a large geographic gradient. <i>Science of the Total Environment</i> , 2021, 789, 147744.	3.9	14
681	Long-term impacts of road disturbance on old-growth coast redwood forests. <i>Forest Ecology and Management</i> , 2021, 499, 119595.	1.4	5
682	Plant community traits can explain variation in productivity of selective logging forests after different restoration times. <i>Ecological Indicators</i> , 2021, 131, 108181.	2.6	5
683	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
684	Effects of Wood Hydraulic Properties on Water Use and Productivity of Tropical Rainforest Trees. <i>Frontiers in Forests and Global Change</i> , 2021, 3, .	1.0	11
685	Can variation in canopy $\delta^{13}C$ be attributed to changes in tree height? An investigation of three conifer species. <i>Trees - Structure and Function</i> , 2021, 35, 731-748.	0.9	0
686	Structure and Composition of Costa Rican Montane Oak Forests. , 2006, , 127-139.		10
687	Carbon Reserves as Indicators for Carbon Limitation in Trees. <i>Progress in Botany Fortschritte Der Botanik</i> , 2015, , 321-346.	0.1	70
688	Ecophysiological Characteristics of Mature Trees and Stands - Consequences for Old-Growth Forest Productivity. <i>Ecological Studies</i> , 2009, , 57-79.	0.4	24
689	The hydraulic performance of tropical rainforest trees in their perhumid environment - is there evidence for drought vulnerability?. <i>Environmental Science and Engineering</i> , 2010, , 391-410.	0.1	2
690	On-Site Resources Availability for Space Agriculture on Mars. , 2009, , 517-542.		14

#	ARTICLE	IF	CITATIONS
691	Relationships Between Tree Height and Carbon Isotope Discrimination. <i>Tree Physiology</i> , 2011, , 255-286.	0.9	69
692	Comparative Criteria for Models of the Vascular Transport Systems of Tall Trees. <i>Tree Physiology</i> , 2011, , 309-339.	0.9	19
693	Size-Dependent Changes in Biophysical Control of Tree Growth: The Role of Turgor. <i>Tree Physiology</i> , 2011, , 363-384.	0.9	31
694	Age-Dependent Changes in Environmental Influences on Tree Growth and Their Implications for Forest Responses to Climate Change. <i>Tree Physiology</i> , 2011, , 455-479.	0.9	29
695	Consequences of Stand Age and Speciesâ€™ Functional Trait Changes on Ecosystem Water Use of Forests. <i>Tree Physiology</i> , 2011, , 481-505.	0.9	5
696	Tree Size- and Age-Related Changes in Leaf Physiology and Their Influence on Carbon Gain. <i>Tree Physiology</i> , 2011, , 235-253.	0.9	55
697	Plant Water Transport and Cavitation. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014, , 173-181.	0.1	4
700	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
701	Inter- and intra-specific variation in phyllode size and growth form among closely related Mimosaceae <i>Acacia</i> species across a semiarid landscape gradient. <i>Australian Journal of Botany</i> , 2011, 59, 426.	0.3	7
702	Do wide crowns in arid woodland trees reflect hydraulic limitation and reduction of self-shading?. <i>Functional Plant Biology</i> , 2014, 41, 1221.	1.1	4
703	Vertical gradients in foliar physiology of tall <i>Picea sitchensis</i> trees. <i>Tree Physiology</i> , 2020, 40, 321-332.	1.4	8
708	The Ecology and Management of Temperate Mangroves. <i>Oceanography and Marine Biology</i> , 2010, , 43-160.	1.0	72
709	Needle-Age Related Variability in Nitrogen, Mobile Carbohydrates, and $\delta^{13}C$ within <i>Pinus koraiensis</i> Tree Crowns. <i>PLoS ONE</i> , 2012, 7, e35076.	1.1	18
710	A Microfluidic Pump/Valve Inspired by Xylem Embolism and Transpiration in Plants. <i>PLoS ONE</i> , 2012, 7, e50320.	1.1	35
711	Functional Traits Help Predict Post-Disturbance Demography of Tropical Trees. <i>PLoS ONE</i> , 2014, 9, e105022.	1.1	16
712	Tree Morphologic Plasticity Explains Deviation from Metabolic Scaling Theory in Semi-Arid Conifer Forests, Southwestern USA. <i>PLoS ONE</i> , 2016, 11, e0157582.	1.1	8
713	Crown architecture and its role in species interactions in mixed boreal forests. <i>Dissertationes Forestales</i> , 2013, 2013, .	0.1	3
714	A physical analysis of sap flow dynamics in trees. <i>Dissertationes Forestales</i> , 2005, 2005, .	0.1	4

#	ARTICLE	IF	CITATIONS
715	A global forest growing stock, biomass and carbon map based on FAO statistics. <i>Silva Fennica</i> , 2008, 42, .	0.5	218
716	Thickness-dependent stiffness of wood: potential mechanisms and implications. <i>Holzforschung</i> , 2020, 74, 1079-1087.	0.9	10
717	Genetic and phenotypic correlations among volume, wood specific gravity and foliar traits in white spruce (<i>Picea glauca</i> (Moench) Voss). <i>Silvae Genetica</i> , 2015, 64, 159-170.	0.4	1
718	HEIGHT-DIAMETER RELATIONSHIPS FOR <i>Araucaria angustifolia</i> (BERTOL.) KUNTZE IN SOUTHERN BRAZIL. <i>Cerne</i> , 2016, 22, 493-500.	0.9	5
719	An individual-based model of long-term forest growth and carbon sequestration in planted mangroves under salinity and inundation stresses. <i>International Journal of Philippine Science and Technology</i> , 2015, 8, 31-35.	0.2	12
720	Advances in understanding canopy development in forest trees. <i>Burleigh Dodds Series in Agricultural Science</i> , 2019, , 59-98.	0.1	1
721	The circular economy package of the European Union: are new paths being taken or is it an old story?. <i>Detritus</i> , 2020, , 12-17.	0.4	4
722	Missing the marine forest for the trees. <i>Marine Ecology - Progress Series</i> , 2019, 612, 209-215.	0.9	56
723	Photosynthetic characteristics of canopy-dwelling vines in lower subtropical evergreen broad-leaved forest and response to environmental factors. <i>Chinese Journal of Plant Ecology</i> , 2011, 35, 567-576.	0.3	1
724	Effect of tree age on chemical compounds of ancient Anatolian black pine (<i>Pinus nigra</i> subsp.) Tj ETQq1 1 0.784314 rgBT /Overlock 107 0.3P 10		
725	Trajectories and models of individual growth. <i>Demographic Research</i> , 0, 15, 347-400.	2.0	120
729	Size-related changes in photosynthesis and leaf characteristics in <i>Sabina vulgaris</i> Ant in the Mu-us Desert, Inner Mongolia, China. <i>Journal of the Japanese Society of Revegetation Technology</i> , 2006, 31, 436-440.	0.0	2
730	Effects of groundwater abstraction on two keystone tree species in an arid savanna national park. <i>PeerJ</i> , 2017, 5, e2923.	0.9	16
731	Paired analysis of tree ring width and carbon isotopes indicates when controls on tropical tree growth change from light to water limitations. <i>Tree Physiology</i> , 2022, 42, 1131-1148.	1.4	7
732	Quantifying the effect of shade on cuticle morphology and carbon isotopes of sycamores: present and past. <i>American Journal of Botany</i> , 2021, 108, 2435-2451.	0.8	6
734	Numerical Modeling of Microfluid Dynamics in Xylem Vessels of <i>Khaya grandifoliola</i> . <i>Water (Switzerland)</i> , 2021, 13, 2723.	1.2	3
735	Site form classification "a practical tool for guiding site-specific tropical forest landscape restoration and management. <i>Forestry</i> , 2022, 95, 261-273.	1.2	6
736	Height limit predicted for tallest trees. <i>Nature</i> , 0, , .	13.7	0

#	ARTICLE	IF	CITATIONS
737	Changes in wood anatomy linked to canopy height in a Hawaiian wet montane forest along a substrate age gradient. <i>Tropics</i> , 2005, 14, 173-178.	0.2	0
738	çµ„ç¹”æ§œæƒf»æè³ã«é—çã™ã,«ç”ç©¶ã®ç³¼çš¶¶ã±•æœ». <i>Mokuzai Gakkai Shi</i> , 2005, 51, 7-9.	0.2	7
740	Limitations and Mechanisms of Height Growth in Trees. <i>Journal of the Japanese Forest Society</i> , 2008, 90, 420-430.	0.1	2
741	Ferntransport von Wasser und anorganischen Ionen. , 2010, , 311-331.		0
742	Ferntransport von Wasser und anorganischen Ionen. , 2010, , 311-331.		0
743	Thermodynamic Foundations of Wetting and Capillary Phenomena. <i>Springer Series in Materials Science</i> , 2011, , 239-273.	0.4	0
744	Investigation on Adaptability and Quantitative Properties of Redwood (<i>Sequoia sempervirens</i>) in North of Iran Forest Plantation. <i>Biosciences, Biotechnology Research Asia</i> , 2011, 8, 577-583.	0.2	0
745	Altitudinal Variations of Ground Tissue and Xylem Tissue in Terminal Shoot of Woody Species: Implications for Treeline Formation. <i>PLoS ONE</i> , 2013, 8, e62163.	1.1	0
746	Differences on Growth, Photosynthesis and Pigment Contents of Open-pollinated <i>Pinus densiflora</i> Families Under Elevated Temperature and Drought. <i>Korean Journal of Agricultural and Forest Meteorology</i> , 2014, 16, 285-296.	0.2	4
747	Comparing Tree Heights among Montane Forest Blocks of Kenya Using LiDAR Data from GLAS. <i>Open Journal of Forestry</i> , 2015, 05, 80-89.	0.1	1
748	Effects on Growth, Photosynthesis and Pigment Contents of <i>Liriodendron tulipifera</i> under Elevated Temperature and Drought. <i>Korean Journal of Agricultural and Forest Meteorology</i> , 2015, 17, 75-84.	0.2	6
749	Gas exchange characteristics of the hybrid <i>Azadirachta indica</i> Æ— <i>Melia azedarach</i> . <i>IForest</i> , 2015, 8, 431-437.	0.5	3
750	Sectional model of non-free tree growth. <i>Computer Research and Modeling</i> , 2016, 8, 307-322.	0.2	0
753	Stem Surface Area as Subject of Study. <i>SpringerBriefs in Plant Science</i> , 2017, , 1-13.	0.4	0
754	Ã—kophysiologische Leistungen der HÃ¶heren Pflanzen. , 2018, , 41-110.		0
755	ENHANCED WATER EVAPORATION WITH FLOATING SYNTHETIC LEAVES. , 2018, , .		0
757	Der Wald und sein Wachstum. <i>EinfÃ¼hrung</i> . , 2019, , 1-36.		1
758	Gestalt von BÃumen. , 2019, , 37-119.		0

#	ARTICLE	IF	CITATIONS
762	Flow resistance characteristics of the stem and root from conifer (<i>Sabina chinensis</i>) xylem tracheid. PLoS ONE, 2021, 16, e0259117.	1.1	1
763	The growth of one-year-old narrow-leaved ash seedlings is strongly related to the leaf area parameters. Reforesta, 2020, , 31-39.	0.4	1
764	Modeling transpiration in synthetic trees. International Journal of Heat and Mass Transfer, 2022, 183, 122121.	2.5	9
765	Zonal Vegetation of the Humid Nemoral (Coolâ€“Temperate) Zone. , 2020, , 599-693.		1
766	Adi ceviz (<i>Juglans regia</i> L.) aÃŸacÃ± yapraklarÃ±n kimyasal bileÅŸiklerinin aÃŸaÅŸ yaÃŸaÃ±na baÃŸlÃ± deÃŸiÅŸimi. Artvin ÃŸoruh Ãœniversitesi Orman FakÃ¼ltesi Dergisi, 0, , .	0.5	2
767	Age-related changes of some chemical components in the leaves of sweet chestnut (<i>Castanea sativa</i>) Tj ETQq1 1 0.784314 rgBT /Oved	0.5	6
768	A Role for Newly Developed Sorbents in Remediating Largeâ€“Scale Oil Spills: Reviewing Recent Advances and Beyond. Advanced Sustainable Systems, 2022, 6, 2100211.	2.7	15
769	Potential of typical highland and mountain forests in the Czech Republic for climate-smart forestry: ecosystem-scale drought responses. Canadian Journal of Forest Research, 2021, 51, 1811-1820.	0.8	3
771	Anpassungen der Pflanzen. , 2007, , 233-282.		0
772	Growth Characteristics of Woody Plants for Irrigation Management of Container Gardens. Journal of People, Plants, and Environment, 2020, 23, 507-519.	0.2	0
773	Bigleaf Maple Within-Crown Leaf Morphology and Seasonal Physiology. Northwest Science, 2020, 94, .	0.1	1
774	Bubble nucleation. , 2022, , 249-266.		0
775	Environmental associations of abundance-weighted functional traits in Australian plant communities. Basic and Applied Ecology, 2022, 58, 98-109.	1.2	11
776	Variation among 91 stone oak species (<i>Fagaceae</i> , <i>Lithocarpus</i>) in fruit and vegetative morphology in relation to climatic factors. Flora: Morphology, Distribution, Functional Ecology of Plants, 2021, 286, 151984.	0.6	3
777	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
778	Hillslope Processes Affect Vessel Lumen Area and Tree Dimensions. Frontiers in Plant Science, 2021, 12, 778802.	1.7	2
779	Divergent Abiotic Stressors Drive Grassland Community Assembly of Tibet and Mongolia Plateau. Frontiers in Plant Science, 2021, 12, 715730.	1.7	2
780	Drone-acquired data reveal the importance of forest canopy structure in predicting tree diversity. Forest Ecology and Management, 2022, 505, 119945.	1.4	5

#	ARTICLE	IF	CITATIONS
781	Test of model of equivalence of tree height growth and transpiration rates in percolation-based phenomenology for root-soil interaction. <i>Ecological Modelling</i> , 2022, 465, 109853.	1.2	3
782	The compensation effect between safety and efficiency in xylem and role in photosynthesis of gymnosperms. <i>Physiologia Plantarum</i> , 2022, 174, e13617.	2.6	5
783	Size-dependent and environment-mediated shifts in leaf traits of a deciduous tree species in a subtropical forest. <i>Ecology and Evolution</i> , 2022, 12, e8516.	0.8	6
784	From leaves to roots: Biophysical models of transport of substances in plants. <i>Progress in Biophysics and Molecular Biology</i> , 2022, 169-170, 53-83.	1.4	10
785	Old and ancient trees are life history lottery winners and vital evolutionary resources for long-term adaptive capacity. <i>Nature Plants</i> , 2022, 8, 136-145.	4.7	28
786	Ecological forecasting of tree growth: Regional fusion of tree-ring and forest inventory data to quantify drivers and characterize uncertainty. <i>Global Change Biology</i> , 2022, 28, 2442-2460.	4.2	29
787	Upscaling 3D Engineered Trees for Off-Grid Desalination. <i>Environmental Science & Technology</i> , 2022, 56, 1289-1299.	4.6	26
788	Exploring how functional traits modulate species distributions along topographic gradients in Baxian Mountain, North China. <i>Scientific Reports</i> , 2022, 12, 994.	1.6	3
789	Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. <i>Global Change Biology</i> , 2022, 28, 2895-2909.	4.2	8
790	Constraining conifer physiological parameters in leaf gas-exchange models for ancient CO2 reconstruction. <i>Global and Planetary Change</i> , 2022, 209, 103737.	1.6	9
791	Plant sizes and shapes above and belowground and their interactions with climate. <i>New Phytologist</i> , 2022, 235, 1032-1056.	3.5	45
792	Tree-to-Shrub Shift Benefits the Survival of <i>Quercus mongolica</i> Fisch. ex Ledeb. at the Xeric Timberline. <i>Forests</i> , 2022, 13, 244.	0.9	1
793	Tree-inspired lignin microrods-based composite heterogeneous nanochannels for ion transport and osmotic energy harvesting. <i>Energy Conversion and Management</i> , 2022, 255, 115321.	4.4	12
794	The Effect of Xylem Vessel Diameter on Potential Hydraulic Conductivity in Different Rice Stem Longitudinal Positions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
795	Ecosystem structure and function. , 2022, , 519-566.		1
796	Distribution of biomass dynamics in relation to tree size in forests across the world. <i>New Phytologist</i> , 2022, 234, 1664-1677.	3.5	24
797	Soil water availability and branch age explain variability in xylem safety of European beech in Central Europe. <i>Oecologia</i> , 2022, 198, 629-644.	0.9	13
798	Biophysical feedback of forest canopy height on land surface temperature over contiguous United States. <i>Environmental Research Letters</i> , 2022, 17, 034002.	2.2	4

#	ARTICLE	IF	CITATIONS
799	Climate Change Effects on Heightâ€“Diameter Allometric Relationship Vary with Tree Species and Size for Larch Plantations in Northern and Northeastern China. <i>Forests</i> , 2022, 13, 468.	0.9	3
800	A model bridging waterlogging, stomatal behavior and water use in trees in drained peatland. <i>Tree Physiology</i> , 2022, , .	1.4	6
801	Disjoining pressure driven transpiration of water in a simulated tree. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 895-902.	5.0	6
802	Study on tree vigor and sprouting of the surviving cherry trees after the tsunami disaster in the coastal forest near the Sendai Bay. <i>Journal of the Japanese Society of Revegetation Technology</i> , 2021, 47, 263-272.	0.0	0
803	Biophysical Properties of Inner Bark and Sapwood in Tree Species From Forests With Contrasting Precipitation in Subtropical South America. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	1.0	1
804	Bioinspired interfacial design for gravity-independent fluid transport control. <i>Giant</i> , 2022, 10, 100100.	2.5	5
805	Plant strategies. , 0, , 275-291.		0
812	Globally, tree fecundity exceeds productivity gradients. <i>Ecology Letters</i> , 2022, 25, 1471-1482.	3.0	11
813	Allometry of two columnar cacti in a tropical deciduous forest. <i>Revista Brasileira De Botanica</i> , 0, , 1.	0.5	1
814	The Shift from Energy to Water Limitation in Local Canopy Height from Temperate to Tropical Forests in China. <i>Forests</i> , 2022, 13, 639.	0.9	1
815	Foliar water uptake as a source of hydrogen and oxygen in plant biomass. <i>Tree Physiology</i> , 2022, , .	1.4	9
816	Tracing drought effects from the tree to the stand growth in temperate and Mediterranean forests: insights and consequences for forest ecology and management. <i>European Journal of Forest Research</i> , 2022, 141, 727-751.	1.1	15
817	Differential nutrient limitation and tree height control leaf physiology, supporting niche partitioning in tropical dipterocarp forests. <i>Functional Ecology</i> , 2022, 36, 2084-2103.	1.7	12
818	The Last Trees Standing: Climate modulates tree survival factors during a prolonged bark beetle outbreak in Europe. <i>Agricultural and Forest Meteorology</i> , 2022, 322, 109025.	1.9	10
819	A plant-like battery: a biodegradable power source ecodesigned for precision agriculture. <i>Energy and Environmental Science</i> , 2022, 15, 2900-2915.	15.6	5
820	Water uptake patterns of tropical canopy trees in Borneo: Species-specific and temporal variation and relationships with aboveground traits. <i>Tree Physiology</i> , 0, , .	1.4	1
822	Functional Traits of <i>Quercus aliena</i> var. <i>acuteserrata</i> in Qinling Huangguan Forest Dynamics Plot: The Relative Importance of Plant Size and Habitat. <i>Forests</i> , 2022, 13, 899.	0.9	2
823	Tracheid buckling buys time, foliar water uptake pays it back: Coordination of leaf structure and function in tall redwood trees. <i>Plant, Cell and Environment</i> , 2022, 45, 2607-2616.	2.8	5

#	ARTICLE	IF	CITATIONS
824	The potential of citizen science data to complement satellite and airborne lidar tree height measurements: lessons from The GLOBE Program. <i>Environmental Research Letters</i> , 2022, 17, 075003.	2.2	1
825	On the link between tree size and ecosystem carbon sequestration capacity across continental forests. <i>Ecosphere</i> , 2022, 13, .	1.0	3
826	Hydraulic Trait Variation with Tree Height Affects Fruit Quality of Walnut Trees under Drought Stress. <i>Agronomy</i> , 2022, 12, 1647.	1.3	1
827	Analyzing Canopy Height Patterns and Environmental Landscape Drivers in Tropical Forests Using NASA's GEDI Spaceborne LiDAR. <i>Remote Sensing</i> , 2022, 14, 3172.	1.8	7
828	Intra-canopy leaf trait variation facilitates high leaf area index and compensatory growth in a clonal woody encroaching shrub. <i>Tree Physiology</i> , 0, , .	1.4	1
829	Tree height effects on vascular anatomy of upper-canopy twigs across a wide range of tropical rainforest species. <i>Journal of Tropical Ecology</i> , 0, , 1-10.	0.5	0
830	Biogeographic implication of temperature-induced plant cell wall lignification. <i>Communications Biology</i> , 2022, 5, .	2.0	12
831	Shrubs Should Be Valued: The Functional Traits of <i>Lonicera fragrantissima</i> var. <i>lancifolia</i> in a Qinling Huangguan Forest Dynamics Plot, China. <i>Forests</i> , 2022, 13, 1147.	0.9	0
832	How seeds and growth dynamics influence plant size and yield: Integrating trait relationships into ontogeny. <i>Journal of Ecology</i> , 2022, 110, 2684-2700.	1.9	4
833	Changes in trait covariance along an orographic moisture gradient reveal the relative importance of light- and moisture-driven tradeoffs in subtropical rainforest communities. <i>New Phytologist</i> , 2022, 236, 839-851.	3.5	3
834	The effect of xylem vessel diameter on potential hydraulic conductivity in different rice stem longitudinal positions. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2022, 295, 152147.	0.6	3
835	The native stem holoparasitic <i>Cuscuta japonica</i> suppresses the invasive plant <i>Ambrosia trifida</i> and related mechanisms in different light conditions in northeast China. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	0
836	Studies of plant hydraulics and water relations in Mexican environments: adaptation, physiology, and applications. <i>Botanical Sciences</i> , 2022, 100, S325-S345.	0.3	0
837	Structural and Functional Responses of the Heteromorphic Leaves of Different Tree Heights on <i>Populus euphratica</i> Oliv. to Different Soil Moisture Conditions. <i>Plants</i> , 2022, 11, 2376.	1.6	4
838	Large old trees increase growth under shifting climatic constraints: Aligning tree longevity and individual growth dynamics in primary mountain spruce forests. <i>Global Change Biology</i> , 2023, 29, 143-164.	4.2	8
839	Hydraulic constraints determine the distribution of heteromorphic leaves along plant vertical height. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	2
840	Thermal sensitivity across forest vertical profiles: patterns, mechanisms, and ecological implications. <i>New Phytologist</i> , 2023, 237, 22-47.	3.5	21
841	Use of support influences height and above-ground allometry but not biomass allocation to different aerial organs of an invasive vine. <i>Trees - Structure and Function</i> , 0, , .	0.9	1

#	ARTICLE	IF	CITATIONS
842	Rangewide climatic sensitivities and non-timber values of tall Sequoia sempervirens forests. Forest Ecology and Management, 2022, 526, 120573.	1.4	4
843	Extinction risk of Chinese angiosperms varies between woody and herbaceous species. Diversity and Distributions, 2023, 29, 232-243.	1.9	3
844	Plants, Vital Players in the Terrestrial Water Cycle. Springer Water, 2022, , 223-250.	0.2	2
845	Cyproconazole Translocation in Coconut Palm Tree Using Vegetative Endotherapy: Evaluation by LC-MS/MS and Mathematical Modeling. Horticulturae, 2022, 8, 1099.	1.2	2
847	Dry-season irrigation further promotes the growth of Eucalyptus urophylla—E. grandis plantations under the conventional fertilization. New Forests, 0, , .	0.7	1
848	Morphological and physiological differences in heteromorphic leaves of male and female Populus euphratica Oliv.. Journal of Arid Land, 2022, 14, 1456-1469.	0.9	1
850	Construction and Demolition Waste as Substrate Component Improved the Growth of Container-Grown Duranta repens. Sustainability, 2023, 15, 1585.	1.6	1
851	Xylem anatomical and hydraulic traits vary within crown but not respond to water and nitrogen addition in Populus tomentosa. Agricultural Water Management, 2023, 278, 108169.	2.4	3
852	Designing a solar interfacial evaporator based on tree structures for great coordination of water transport and salt rejection. Materials Horizons, 2023, 10, 1737-1744.	6.4	14
853	Demystifying the convergent ecological specialization of desiccation-tolerant vascular plants for water deficit. Annals of Botany, 0, , .	1.4	2
854	Quantifying Variation in Canopy Height from LiDAR Data as a Function of Altitude Along Alpine Treeline Ecotone in Indian Himalaya. , 2023, , 191-203.		0
855	The largest trees in Australia. Austral Ecology, 2023, 48, 653-671.	0.7	2
856	Oil—Water Separation using Synthetic Trees. Langmuir, 2023, 39, 2520-2528.	1.6	4
857	The role of height increment and marginal height cost in the production ecology of Eucalyptus plantations. Forest Ecology and Management, 2023, 532, 120846.	1.4	0
858	Bionic microchannels for step lifting transpiration. International Journal of Extreme Manufacturing, 2023, 5, 025502.	6.3	11
859	Xylem vessel type and structure influence the water transport characteristics of Panax notoginseng. PLoS ONE, 2023, 18, e0281080.	1.1	0
860	The effect of the vertical gradients of photosynthetic parameters on the CO_2 assimilation and transpiration of a Panamanian tropical forest. New Phytologist, 2023, 238, 2345-2362.	3.5	3
861	Wood Biology. Springer Handbooks, 2023, , 41-138.	0.3	0

#	ARTICLE	IF	CITATIONS
872	Effects of Chronic Exposure to Microcystin-LR on Leaf Growth and Non-structural Carbohydrates of <i>Oenanthe Javanica</i> (Blume) DC. <i>Environmental Science and Engineering</i> , 2023, , 313-325.	0.1	0
878	<i>Insects and Forest Succession.</i> , 2023, , 205-236.		0
894	Forests then and now: managing for ecosystem benefits, services to humans, and healthy forests across scales. , 2024, , 49-64.		0