

# Maurizio Mencuccini

## List of Publications by Year in descending order

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Version: 2024-02-01

201  
papers

19,905  
citations

14655

66  
h-index

12272

133  
g-index

228  
all docs

228  
docs citations

228  
times ranked

16910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Small understorey trees have greater capacity than canopy trees to adjust hydraulic traits following prolonged experimental drought in a tropical forest. <i>Tree Physiology</i> , 2022, 42, 537-556.	3.1	7
2	Variation of non-structural carbohydrates across the fast-slow continuum in Amazon Forest canopy trees. <i>Functional Ecology</i> , 2022, 36, 341-355.	3.6	9
3	Forest system hydraulic conductance: partitioning tree and soil components. <i>New Phytologist</i> , 2022, 233, 1667-1681.	7.3	6
4	The 2018 European heatwave led to stem dehydration but not to consistent growth reductions in forests. <i>Nature Communications</i> , 2022, 13, 28.	12.8	66
5	Forest canopy nitrogen uptake can supply entire foliar demand. <i>Functional Ecology</i> , 2022, 36, 933-949.	3.6	9
6	Wood density and hydraulic traits influence species' growth response to drought across biomes. <i>Global Change Biology</i> , 2022, 28, 3871-3882.	9.5	34
7	Mechanisms of woody-plant mortality under rising drought, CO <sub>2</sub> and vapour pressure deficit. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 294-308.	29.7	163
8	Vapour pressure deficit is the main driver of tree canopy conductance across biomes. <i>Agricultural and Forest Meteorology</i> , 2022, 322, 109029.	4.8	9
9	High exposure of global tree diversity to human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	18
10	Unravelling the effect of species mixing on water use and drought stress in Mediterranean forests: A modelling approach. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108233.	4.8	30
11	Plant traits controlling growth change in response to a drier climate. <i>New Phytologist</i> , 2021, 229, 1363-1374.	7.3	26
12	The response of carbon assimilation and storage to long-term drought in tropical trees is dependent on light availability. <i>Functional Ecology</i> , 2021, 35, 43-53.	3.6	14
13	Canopy wetness in the Eastern Amazon. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108250.	4.8	15
14	Life after recovery: Increased resolution of forest resilience assessment sheds new light on post-drought compensatory growth and recovery dynamics. <i>Journal of Ecology</i> , 2021, 109, 3157-3170.	4.0	41
15	Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. <i>Nature Ecology and Evolution</i> , 2021, 5, 733-735.	7.8	10
16	Non-structural carbohydrates mediate seasonal water stress across Amazon forests. <i>Nature Communications</i> , 2021, 12, 2310.	12.8	59
17	Hard times for high expectations from hydraulics: predicting drought-induced forest mortality at landscape scales remains a challenge. <i>New Phytologist</i> , 2021, 230, 1685-1687.	7.3	15
18	Climate and functional traits jointly mediate tree water-use strategies. <i>New Phytologist</i> , 2021, 231, 617-630.	7.3	53

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19	Shifting access to pools of shoot water sustains gas exchange and increases stem hydraulic safety during seasonal atmospheric drought. <i>Plant, Cell and Environment</i> , 2021, 44, 2898-2911.	5.7	17
20	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	9.9	65
21	Harvesting water from unsaturated atmospheres: deliquescence of salt secreted onto leaf surfaces drives reverse sap flow in a dominant arid climate mangrove, <i>Avicennia marina</i> . <i>New Phytologist</i> , 2021, 231, 1401-1414.	7.3	30
22	Towards a statistically robust determination of minimum water potential and hydraulic risk in plants. <i>New Phytologist</i> , 2021, 232, 404-417.	7.3	19
23	Detecting forest response to droughts with global observations of vegetation water content. <i>Global Change Biology</i> , 2021, 27, 6005-6024.	9.5	73
24	Are leaf, stem and hydraulic traits good predictors of individual tree growth?. <i>Functional Ecology</i> , 2021, 35, 2435-2447.	3.6	16
25	Threshold Response to Extreme Drought Shifts Inter-Tree Growth Dominance in <i>Pinus sylvestris</i> . <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	2
26	A review of the suitability of eucalypts for short rotation forestry for energy in the UK. <i>New Forests</i> , 2020, 51, 1-19.	1.7	13
27	Partitioning between atmospheric deposition and canopy microbial nitrification into throughfall nitrate fluxes in a Mediterranean forest. <i>Journal of Ecology</i> , 2020, 108, 626-640.	4.0	20
28	Equivalence of foliar water uptake and stomatal conductance?. <i>Plant, Cell and Environment</i> , 2020, 43, 524-528.	5.7	26
29	Transpiration from subarctic deciduous woodlands: Environmental controls and contribution to ecosystem evapotranspiration. <i>Ecohydrology</i> , 2020, 13, e2190.	2.4	12
30	Stomatal optimization based on xylem hydraulics (SOX) improves land surface model simulation of vegetation responses to climate. <i>New Phytologist</i> , 2020, 226, 1622-1637.	7.3	95
31	TRY plant trait database " enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
32	Respiration in wood: integrating across tissues, functions and scales. <i>New Phytologist</i> , 2020, 225, 1824-1827.	7.3	3
33	Bioclimatic distance and performance of apical shoot extension: Disentangling the role of growth rate and duration in ecotypic differentiation. <i>Forest Ecology and Management</i> , 2020, 477, 118483.	3.2	10
34	Small tropical forest trees have a greater capacity to adjust carbon metabolism to long-term drought than large canopy trees. <i>Plant, Cell and Environment</i> , 2020, 43, 2380-2393.	5.7	22
35	Climate and atmospheric deposition effects on forest water-use efficiency and nitrogen availability across Britain. <i>Scientific Reports</i> , 2020, 10, 12418.	3.3	18
36	Adaptation and coordinated evolution of plant hydraulic traits. <i>Ecology Letters</i> , 2020, 23, 1599-1610.	6.4	58

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37	Amazonia trees have limited capacity to acclimate plant hydraulic properties in response to long-term drought. <i>Global Change Biology</i> , 2020, 26, 3569-3584.	9.5	56
38	Determinants of legacy effects in pine trees – implications from an irrigation-stop experiment. <i>New Phytologist</i> , 2020, 227, 1081-1096.	7.3	52
39	Using the SAPFLUXNET database to understand transpiration regulation of trees and forests. <i>Acta Horticulturae</i> , 2020, , 179-186.	0.2	3
40	The impact of a simple representation of non-structural carbohydrates on the simulated response of tropical forests to drought. <i>Biogeosciences</i> , 2020, 17, 3589-3612.	3.3	24
41	sPlot – A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019, 30, 161-186.	2.2	185
42	Leaf economics and plant hydraulics drive leaf : wood area ratios. <i>New Phytologist</i> , 2019, 224, 1544-1556.	7.3	77
43	Foliar water uptake in Amazonian trees: Evidence and consequences. <i>Global Change Biology</i> , 2019, 25, 2678-2690.	9.5	45
44	Exceptionally high mangrove root production rates in the Kelantan Delta, Malaysia; An experimental and comparative study. <i>Forest Ecology and Management</i> , 2019, 444, 214-224.	3.2	20
45	Drought-induced mortality in Scots pine: opening the metabolic black box. <i>Tree Physiology</i> , 2019, 39, 1358-1370.	3.1	10
46	Temperature and masting control Norway spruce growth, but with high individual tree variability. <i>Forest Ecology and Management</i> , 2019, 438, 142-150.	3.2	34
47	Modelling water fluxes in plants: from tissues to biosphere. <i>New Phytologist</i> , 2019, 222, 1207-1222.	7.3	138
48	Adjustments and coordination of hydraulic, leaf and stem traits along a water availability gradient. <i>New Phytologist</i> , 2019, 223, 632-646.	7.3	184
49	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018, 219, 851-869.	7.3	341
50	Drought stress and tree size determine stem $\text{CO}_2$ efflux in a tropical forest. <i>New Phytologist</i> , 2018, 218, 1393-1405.	7.3	26
51	Shock and stabilisation following long-term drought in tropical forest from 15 years of litterfall dynamics. <i>Journal of Ecology</i> , 2018, 106, 1673-1682.	4.0	26
52	Preliminary growth functions for <i>Eucalyptus gunnii</i> in the UK. <i>Biomass and Bioenergy</i> , 2018, 108, 464-469.	5.7	6
53	Manipulative experiments demonstrate how long-term soil moisture changes alter controls of plant water use. <i>Environmental and Experimental Botany</i> , 2018, 152, 19-27.	4.2	49
54	Changes in tree resistance, recovery and resilience across three successive extreme droughts in the northeast Iberian Peninsula. <i>Oecologia</i> , 2018, 187, 343-354.	2.0	94

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55	Tree size and climatic water deficit control root to shoot ratio in individual trees globally. <i>New Phytologist</i> , 2018, 217, 8-11.	7.3	108
56	Xylem hydraulic safety and construction costs determine tropical tree growth. <i>Plant, Cell and Environment</i> , 2018, 41, 548-562.	5.7	70
57	Stand dynamics modulate water cycling and mortality risk in droughted tropical forest. <i>Global Change Biology</i> , 2018, 24, 249-258.	9.5	39
58	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	7.8	397
59	Rainforest trees respond to drought by modifying their hydraulic architecture. <i>Ecology and Evolution</i> , 2018, 8, 12479-12491.	1.9	34
60	Short-term effects of drought on tropical forest do not fully predict impacts of repeated or long-term drought: gas exchange versus growth. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170311.	4.0	30
61	Modelling tropical forest responses to drought and El Niño with a stomatal optimization model based on xylem hydraulics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170315.	4.0	69
62	Gap-filling a spatially explicit plant trait database: comparing imputation methods and different levels of environmental information. <i>Biogeosciences</i> , 2018, 15, 2601-2617.	3.3	13
63	Estimating carbon avoided from the implementation of reduced-impact logging in Sabah, Malaysia. <i>International Forestry Review</i> , 2018, 20, 58-78.	0.6	6
64	Long-term temporal relationships between environmental conditions and xylem functional traits: a meta-analysis across a range of woody species along climatic and nitrogen deposition gradients. <i>Tree Physiology</i> , 2017, 37, 4-17.	3.1	37
65	An empirical method that separates irreversible stem radial growth from bark water content changes in trees: theory and case studies. <i>Plant, Cell and Environment</i> , 2017, 40, 290-303.	5.7	86
66	Physiological and Biochemical Processes Related to Ageing and Senescence in Plants. , 2017, , 257-283.		30
67	Assimilation of repeated woody biomass observations constrains decadal ecosystem carbon cycle uncertainty in aggrading forests. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2017, 122, 528-545.	3.0	41
68	Xylem. , 2017, , 141-148.		0
69	Morphological and physiological responses to drought stress of European provenances of Scots pine. <i>European Journal of Forest Research</i> , 2017, 136, 91-104.	2.5	31
70	Predicting stomatal responses to the environment from the optimization of photosynthetic gain and hydraulic cost. <i>Plant, Cell and Environment</i> , 2017, 40, 816-830.	5.7	276
71	Decomposition nitrogen is better retained than simulated deposition from mineral amendments in a temperate forest. <i>Global Change Biology</i> , 2017, 23, 1711-1724.	9.5	6
72	Plumbing the depths: extracellular water storage in specialized leaf structures and its functional expression in a three-domain pressure-volume relationship. <i>Plant, Cell and Environment</i> , 2017, 40, 1021-1038.	5.7	35

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73	The Anatomy and Functioning of the Xylem in Oaks. <i>Tree Physiology</i> , 2017, , 261-302.	2.5	15
74	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017, 1, 1285-1291.	7.8	739
75	A resource capture efficiency index to compare differences in early growth of four tree species in northern England. <i>IForest</i> , 2017, 10, 397-405.	1.4	7
76	Linking hydraulic traits to tropical forest function in a size-structured and trait-driven model (TFSAv.1-Hydro). <i>Geoscientific Model Development</i> , 2016, 9, 4227-4255.	3.6	211
77	The Application of Leaf Ultrasonic Resonance to <i>Vitis vinifera</i> L. Suggests the Existence of a Diurnal Osmotic Adjustment Subjected to Photosynthesis. <i>Frontiers in Plant Science</i> , 2016, 7, 1601.	3.6	13
78	Allocation, stress tolerance and carbon transport in plants: how does phloem physiology affect plant ecology?. <i>Plant, Cell and Environment</i> , 2016, 39, 709-725.	5.7	164
79	Plasticity in leaf-level water relations of tropical rainforest trees in response to experimental drought. <i>New Phytologist</i> , 2016, 211, 477-488.	7.3	62
80	Weak tradeoff between xylem safety and xylem-specific hydraulic efficiency across the world's woody plant species. <i>New Phytologist</i> , 2016, 209, 123-136.	7.3	466
81	Limited acclimation in leaf anatomy to experimental drought in tropical rainforest trees. <i>Tree Physiology</i> , 2016, 36, 1550-1561.	3.1	27
82	SAPFLUXNET: towards a global database of sap flow measurements. <i>Tree Physiology</i> , 2016, 36, 1449-1455.	3.1	86
83	Direct observation and modelling of embolism spread between xylem conduits: a case study in Scots pine. <i>Plant, Cell and Environment</i> , 2016, 39, 2774-2785.	5.7	27
84	Separating water-potential induced swelling and shrinking from measured radial stem variations reveals a cambial growth and osmotic concentration signal. <i>Plant, Cell and Environment</i> , 2016, 39, 233-244.	5.7	79
85	Does canopy nitrogen uptake enhance carbon sequestration by trees?. <i>Global Change Biology</i> , 2016, 22, 875-888.	9.5	45
86	After more than a decade of soil moisture deficit, tropical rainforest trees maintain photosynthetic capacity, despite increased leaf respiration. <i>Global Change Biology</i> , 2015, 21, 4662-4672.	9.5	67
87	Balancing the risks of hydraulic failure and carbon starvation: a twig scale analysis in declining Scots pine. <i>Plant, Cell and Environment</i> , 2015, 38, 2575-2588.	5.7	79
88	Isotopic evidence for the occurrence of biological nitrification and nitrogen deposition processing in forest canopies. <i>Global Change Biology</i> , 2015, 21, 4613-4626.	9.5	63
89	Coordination of physiological traits involved in drought-induced mortality of woody plants. <i>New Phytologist</i> , 2015, 208, 396-409.	7.3	123
90	Death from drought in tropical forests is triggered by hydraulics not carbon starvation. <i>Nature</i> , 2015, 528, 119-122.	27.8	482

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91	Hydraulic functioning of tree stems—fusing ray anatomy, radial transfer and capacitance. <i>Tree Physiology</i> , 2015, 35, 706-722.	3.1	110
92	Tall, leafy conifers lose out. <i>Nature Climate Change</i> , 2015, 5, 625-626.	18.8	11
93	Bayesian calibration and Bayesian model comparison of a stand level dynamic growth model for Sitka spruce and Scots pine. <i>Forestry</i> , 2015, 88, 326-335.	2.3	4
94	Drought—related tree mortality: addressing the gaps in understanding and prediction. <i>New Phytologist</i> , 2015, 207, 28-33.	7.3	111
95	Sap flow as a key trait in the understanding of plant hydraulic functioning. <i>Tree Physiology</i> , 2015, 35, 341-345.	3.1	70
96	Dwarf trees, super—sized shrubs and scaling: why is plant stature so important?. <i>Plant, Cell and Environment</i> , 2015, 38, 1-3.	5.7	11
97	A comparison of models for quantifying growth and standing carbon in UK Scots pine forests. <i>IForest</i> , 2015, 8, 596-605.	1.4	8
98	Rapid Losses of Surface Elevation following Tree Girdling and Cutting in Tropical Mangroves. <i>PLoS ONE</i> , 2014, 9, e107868.	2.5	78
99	Managing forests for ecosystem services - can spruce forests show the way?. <i>Forestry</i> , 2014, 87, 189-191.	2.3	5
100	Stem injection of $^{15}\text{N-NH}_4\text{NO}_3$ into mature Sitka spruce ( <i>Picea sitchensis</i> ). <i>Tree Physiology</i> , 2014, 34, 1130-1140.	3.1	7
101	Frost damage to eucalypts in a short-rotation forestry trial in Cumbria (England). <i>IForest</i> , 2014, 7, 156-161.	1.4	4
102	Improved allometric models to estimate the aboveground biomass of tropical trees. <i>Global Change Biology</i> , 2014, 20, 3177-3190.	9.5	1,712
103	No signs of meristem senescence in old Scots pine. <i>Journal of Ecology</i> , 2014, 102, 555-565.	4.0	27
104	Temporal scales for the coordination of tree carbon and water economies during droughts. <i>Tree Physiology</i> , 2014, 34, 439-442.	3.1	19
105	Sensitivity of colour indices for discriminating leaf colours from digital photographs. <i>Methods in Ecology and Evolution</i> , 2014, 5, 1078-1085.	5.2	21
106	Ecophysiological Aspects of Phloem Transport in Trees. <i>Plant Ecophysiology</i> , 2014, , 25-36.	1.5	6
107	A new look at water transport regulation in plants. <i>New Phytologist</i> , 2014, 204, 105-115.	7.3	404
108	Plump trees win under drought. <i>Nature Climate Change</i> , 2014, 4, 666-667.	18.8	23

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109	The utility of optical remote sensing for characterizing changes in the photosynthetic efficiency of Norway maple saplings following transplantation. <i>International Journal of Remote Sensing</i> , 2013, 34, 655-667.	2.9	2
110	Species mixing boosts root yield in mangrove trees. <i>Oecologia</i> , 2013, 172, 271-278.	2.0	42
111	Effects of Long-Term Nitrogen Addition and Atmospheric Nitrogen Deposition on Carbon Accumulation in <i>Picea sitchensis</i> Plantations. <i>Ecosystems</i> , 2013, 16, 1310-1324.	3.4	14
112	Evaluating theories of drought-induced vegetation mortality using a multimodel "experiment framework. <i>New Phytologist</i> , 2013, 200, 304-321.	7.3	340
113	Propagating uncertainty to estimates of above-ground biomass for Kenyan mangroves: A scaling procedure from tree to landscape level. <i>Forest Ecology and Management</i> , 2013, 310, 968-982.	3.2	38
114	The relationship between carbon dioxide uptake and canopy colour from two camera systems in a deciduous forest in southern England. <i>Functional Ecology</i> , 2013, 27, 196-207.	3.6	59
115	Concurrent measurements of change in the bark and xylem diameters of trees reveal a phloem-generated turgor signal. <i>New Phytologist</i> , 2013, 198, 1143-1154.	7.3	92
116	The regulation of sapwood area, water transport and heartwood formation in Sitka spruce. <i>Plant Ecology and Diversity</i> , 2013, 6, 45-56.	2.4	16
117	Paul Jarvis, FRS, FRSE: plant ecologist who showed the link between forests and the atmosphere. <i>IForest</i> , 2013, 6, 100-101.	1.4	1
118	Drought-induced defoliation and long periods of near-zero gas exchange play a key role in accentuating metabolic decline of Scots pine. <i>New Phytologist</i> , 2013, 200, 388-401.	7.3	140
119	"Forests, instruments and ideas" a tribute to John Grace's career. <i>Plant Ecology and Diversity</i> , 2013, 6, 3-6.	2.4	0
120	The effects of site preparation practices on carbon dioxide, methane and nitrous oxide fluxes from a peaty gley soil. <i>Forestry</i> , 2012, 85, 1-15.	2.3	22
121	Global convergence in the vulnerability of forests to drought. <i>Nature</i> , 2012, 491, 752-755.	27.8	1,944
122	Seasonal controls on net branch CO <sub>2</sub> assimilation in sub-Arctic Mountain Birch ( <i>Betula pubescens</i> )	4.8	3
123	Spatial distribution and packing of xylem conduits. <i>American Journal of Botany</i> , 2012, 99, 1189-1196.	1.7	52
124	The potential for Eucalyptus as a wood fuel in the UK. <i>Applied Energy</i> , 2012, 89, 176-182.	10.1	47
125	Understanding trait interactions and their impacts on growth in Scots pine branches across Europe. <i>Functional Ecology</i> , 2012, 26, 541-549.	3.6	52
126	Assessing the effects of nitrogen deposition and climate on carbon isotope discrimination and intrinsic water-use efficiency of angiosperm and conifer trees under rising CO <sub>2</sub> conditions. <i>Global Change Biology</i> , 2012, 18, 2925-2944.	9.5	82



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127	Effects of climate and site characteristics on Scots pine growth. <i>European Journal of Forest Research</i> , 2012, 131, 427-439.	2.5	14
128	Effects of species richness, identity and environmental variables on growth in planted mangroves in Kenya. <i>Marine Ecology - Progress Series</i> , 2012, 465, 1-10.	1.9	9
129	The comparison of several colour indices for the photographic recording of canopy phenology of <i>Fagus crenata</i> Blume in eastern Japan. <i>Plant Ecology and Diversity</i> , 2011, 4, 67-77.	2.4	28
130	A carbon cost-gain model explains the observed patterns of xylem safety and efficiency. <i>Plant, Cell and Environment</i> , 2011, 34, 1819-1834.	5.7	40
131	The legacy of enhanced N and S deposition as revealed by the combined analysis of $\delta^{13}C$ , $\delta^{18}O$ and $\delta^{15}N$ in tree rings. <i>Global Change Biology</i> , 2011, 17, 1946-1962.	9.5	66
132	Modelling understorey light for seedling regeneration in continuous cover forestry canopies. <i>Forestry</i> , 2011, 84, 397-409.	2.3	14
133	Comparative Criteria for Models of the Vascular Transport Systems of Tall Trees. <i>Tree Physiology</i> , 2011, , 309-339.	2.5	19
134	Stand and coarse woody debris dynamics in subalpine Norway spruce forests withdrawn from regular management. <i>Annals of Forest Science</i> , 2010, 67, 803-803.	2.0	16
135	Effects of site preparation for afforestation on methane fluxes at Harwood Forest, NE England. <i>Biogeochemistry</i> , 2010, 97, 89-107.	3.5	13
136	Decomposition of mangrove roots: Effects of location, nutrients, species identity and mix in a Kenyan forest. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 88, 135-142.	2.1	62
137	Anthropogenic NO <sub>x</sub> emissions alter the intrinsic water-use efficiency (WUE <sub>i</sub> ) for <i>Quercus cerris</i> stands under Mediterranean climate conditions. <i>Environmental Pollution</i> , 2010, 158, 2841-2847.	7.5	24
138	The significance of phloem transport for the speed with which canopy photosynthesis and belowground respiration are linked. <i>New Phytologist</i> , 2010, 185, 189-203.	7.3	181
139	On light bulbs and marbles. Transfer times and teleconnections in plant fluid transport systems. <i>New Phytologist</i> , 2010, 187, 888-891.	7.3	11
140	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.	4.0	92
141	Intra- and interspecific facilitation in mangroves may increase resilience to climate change threats. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2127-2135.	4.0	90
142	The effects of sap ionic composition on xylem vulnerability to cavitation. <i>Journal of Experimental Botany</i> , 2010, 61, 275-285.	4.8	59
143	Green spruce aphid infestations cause larger growth reductions to Sitka spruce under shade. <i>Tree Physiology</i> , 2010, 30, 1403-1414.	3.1	5
144	A quantitative and statistically robust method for the determination of xylem conduit spatial distribution. <i>American Journal of Botany</i> , 2010, 97, 1247-1259.	1.7	21

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145	Calibration and validation of a simplified process-based model for the prediction of the carbon balance of Scottish Sitka spruce ( <i>Picea sitchensis</i> ) plantations. <i>Canadian Journal of Forest Research</i> , 2010, 40, 2411-2426.	1.7	18
146	Biotic and abiotic factors affecting the $\delta^{13}\text{C}$ of soil respired $\text{CO}_2$ in a Mediterranean oak woodland. <i>Isotopes in Environmental and Health Studies</i> , 2009, 45, 343-359.	1.0	20
147	Carbon stock and stock changes across a Sitka spruce chronosequence on surface-water gley soils. <i>Forestry</i> , 2009, 82, 255-272.	2.3	39
148	The impact of soil microorganisms on the global budget of $^{18}\text{O}$ in atmospheric $\text{CO}_2$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22411-22415.	7.1	74
149	New Insights into the Mechanisms of Water-Stress-Induced Cavitation in Conifers. <i>Plant Physiology</i> , 2009, 151, 949-954.	4.8	97
150	Linking phloem function to structure: Analysis with a coupled xylem-phloem transport model. <i>Journal of Theoretical Biology</i> , 2009, 259, 325-337.	1.7	207
151	Capacitive effect of cavitation in xylem conduits: results from a dynamic model. <i>Plant, Cell and Environment</i> , 2009, 32, 10-21.	5.7	115
152	Hydraulic adjustment of Scots pine across Europe. <i>New Phytologist</i> , 2009, 184, 353-364.	7.3	337
153	THE DISTRIBUTION OF RESISTANCES ALONG THE HYDRAULIC PATHWAY IS CONTROLLED BY THE TAPERING OF XYLEM CONDUITS. <i>Acta Horticulturae</i> , 2009, , 237-242.	0.2	1
154	Magnani et al. reply. <i>Nature</i> , 2008, 451, E3-E4.	27.8	20
155	Tapering of xylem conduits and hydraulic limitations in sycamore ( <i>Acer pseudoplatanus</i> ) trees. <i>New Phytologist</i> , 2008, 177, 653-664.	7.3	81
156	Evaporation and carbonic anhydrase activity recorded in oxygen isotope signatures of net $\text{CO}_2$ fluxes from a Mediterranean soil. <i>Global Change Biology</i> , 2008, 14, 2178-2193.	9.5	48
157	Sensitivity and uncertainty analysis from a coupled 3-PG and soil organic matter decomposition model. <i>Ecological Modelling</i> , 2008, 219, 1-16.	2.5	78
158	Below-ground root yield and distribution in natural and replanted mangrove forests at Gazi bay, Kenya. <i>Forest Ecology and Management</i> , 2008, 256, 1290-1297.	3.2	97
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