

Sylvain Delzon

List of Publications by Year in descending order

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Version: 2024-02-01

175
papers

18,567
citations

17440

63
h-index

13771

129
g-index

184
all docs

184
docs citations

184
times ranked

15879
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-validation of the high-capacity tensiometer and thermocouple psychrometer for continuous monitoring of xylem water potential in saplings. <i>Journal of Experimental Botany</i> , 2022, 73, 400-412.	4.8	6
2	Pit and tracheid anatomy explain hydraulic safety but not hydraulic efficiency of 28 conifer species. <i>Journal of Experimental Botany</i> , 2022, 73, 1033-1048.	4.8	22
3	Post-drought conditions and hydraulic dysfunction determine tree resilience and mortality across Mediterranean Aleppo pine (<i>Pinus halepensis</i>) populations after an extreme drought event. <i>Tree Physiology</i> , 2022, 42, 1364-1376.	3.1	11
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	The impact of drought-induced root and root hair shrinkage on root-soil contact. <i>Plant Physiology</i> , 2022, 189, 1232-1236.	4.8	26
6	Measuring xylem hydraulic vulnerability for long-vessel species: an improved methodology with the flow centrifugation technique. <i>Annals of Forest Science</i> , 2022, 79, .	2.0	6
7	Temperature rather than individual growing period length determines radial growth of sessile oak in the Pyrenees. <i>Agricultural and Forest Meteorology</i> , 2022, 317, 108885.	4.8	11
8	Hydraulic traits are coupled with plant anatomical traits under drought-rewatering cycles in <i>Ginkgo biloba</i> L.. <i>Tree Physiology</i> , 2022, 42, 1216-1227.	3.1	5
9	High variation in hydraulic efficiency but not xylem safety between roots and branches in four temperate broadleaved tree species. <i>Functional Ecology</i> , 2022, 36, 699-712.	3.6	17
10	Globally, tree fecundity exceeds productivity gradients. <i>Ecology Letters</i> , 2022, 25, 1471-1482.	6.4	11
11	Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. <i>Nature Communications</i> , 2022, 13, 2381.	12.8	21
12	Hurricanes increase tropical forest vulnerability to drought. <i>New Phytologist</i> , 2022, 235, 1005-1017.	7.3	10
13	Linking drought-induced xylem embolism resistance to wood anatomical traits in Neotropical trees. <i>New Phytologist</i> , 2021, 229, 1453-1466.	7.3	49
14	Higher needle anatomic plasticity is related to better water-use efficiency and higher resistance to embolism in fast-growing <i>Pinus pinaster</i> families under water scarcity. <i>Trees - Structure and Function</i> , 2021, 35, 287-306.	1.9	8
15	Maternal effects shape the seed mycobiome in <i>Quercus petraea</i> . <i>New Phytologist</i> , 2021, 230, 1594-1608.	7.3	47
16	Nighttime transpiration represents a negligible part of water loss and does not increase the risk of water stress in grapevine. <i>Plant, Cell and Environment</i> , 2021, 44, 387-398.	5.7	33
17	The within-population variability of leaf spring and autumn phenology is influenced by temperature in temperate deciduous trees. <i>International Journal of Biometeorology</i> , 2021, 65, 369-379.	3.0	18
18	Seasonal and long-term consequences of esca grapevine disease on stem xylem integrity. <i>Journal of Experimental Botany</i> , 2021, 72, 3914-3928.	4.8	16

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19	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, .	7.1	41
20	Counterâ€gradient variation of reproductive effort in a widely distributed temperate oak. <i>Functional Ecology</i> , 2021, 35, 1745-1755.	3.6	3
21	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
22	Is there tree senescence? The fecundity evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	42
23	Intervessel pit membrane thickness best explains variation in embolism resistance amongst stems of <i>Arabidopsis thaliana</i> accessions. <i>Annals of Botany</i> , 2021, 128, 171-182.	2.9	23
24	Potential ability of tobacco (<i>Nicotiana tabacum</i> L.) to phytomanage an urban brownfield soil. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	5.3	1
25	Adaptive introgression as a driver of local adaptation to climate in European white oaks. <i>New Phytologist</i> , 2020, 226, 1171-1182.	7.3	117
26	Flower phenology as a disruptor of the fruiting dynamics in temperate oak species. <i>New Phytologist</i> , 2020, 225, 1181-1192.	7.3	26
27	Overâ€accumulation of abscisic acid in transgenic tomato plants increases the risk of hydraulic failure. <i>Plant, Cell and Environment</i> , 2020, 43, 548-562.	5.7	24
28	Xylem embolism in leaves does not occur with open stomata: evidence from direct observations using the optical visualization technique. <i>Journal of Experimental Botany</i> , 2020, 71, 1151-1159.	4.8	71
29	What do you mean â€functionalâ€ in ecology? Patterns versus processes. <i>Ecology and Evolution</i> , 2020, 10, 11875-11885.	1.9	32
30	How does contemporary selection shape oak phenotypes?. <i>Evolutionary Applications</i> , 2020, 13, 2772-2790.	3.1	18
31	Droughtâ€induced lacuna formation in the stem causes hydraulic conductance to decline before xylem embolism in <i>Selaginella</i> . <i>New Phytologist</i> , 2020, 227, 1804-1817.	7.3	18
32	Distribution of endemic bark beetle attacks and their physiological consequences on <i>Pinus halepensis</i> . <i>Forest Ecology and Management</i> , 2020, 469, 118187.	3.2	6
33	A comparison of five methods to assess embolism resistance in trees. <i>Forest Ecology and Management</i> , 2020, 468, 118175.	3.2	39
34	Vulnerability and hydraulic segmentations at the stemâ€leaf transition: coordination across Neotropical trees. <i>New Phytologist</i> , 2020, 228, 512-524.	7.3	46
35	Visual and hydraulic techniques produce similar estimates of cavitation resistance in woody species. <i>New Phytologist</i> , 2020, 228, 884-897.	7.3	37
36	Advanced vascular function discovered in a widespread moss. <i>Nature Plants</i> , 2020, 6, 273-279.	9.3	54

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37	In situ estimation of genetic variation of functional and ecological traits in <i>Quercus petraea</i> and <i>Q. robur</i> . <i>Tree Genetics and Genomes</i> , 2020, 16, 1.	1.6	9
38	Climatic limits of temperate rainforest tree species are explained by xylem embolism resistance among angiosperms but not among conifers. <i>New Phytologist</i> , 2020, 226, 727-740.	7.3	29
39	Neither xylem collapse, cavitation, or changing leaf conductance drive stomatal closure in wheat. <i>Plant, Cell and Environment</i> , 2020, 43, 854-865.	5.7	59
40	Where is the optimum? Predicting the variation of selection along climatic gradients and the adaptive value of plasticity. A case study on tree phenology. <i>Evolution Letters</i> , 2020, 4, 109-123.	3.3	36
41	Lack of vulnerability segmentation in four angiosperm tree species: evidence from direct X-ray microtomography observation. <i>Annals of Forest Science</i> , 2020, 77, 1.	2.0	26
42	The sequence and thresholds of leaf hydraulic traits underlying grapevine varietal differences in drought tolerance. <i>Journal of Experimental Botany</i> , 2020, 71, 4333-4344.	4.8	67
43	How does increasing mast seeding frequency affect population dynamics of seed consumers? Wild boar as a case study. <i>Ecological Applications</i> , 2020, 30, e02134.	3.8	32
44	The paradox of defoliation: Declining tree water status with increasing soil water content. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 108025.	4.8	16
45	No role for xylem embolism or carbohydrate shortage in temperate trees during the severe 2015 drought. <i>Journal of Ecology</i> , 2019, 107, 334-349.	4.0	46
46	Reply to: Data do not support large-scale oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2019, 3, 1287-1288.	7.8	4
47	Exploring the Hydraulic Failure Hypothesis of Esca Leaf Symptom Formation. <i>Plant Physiology</i> , 2019, 181, 1163-1174.	4.8	32
48	Genetic differentiation in functional traits among European sessile oak populations. <i>Tree Physiology</i> , 2019, 39, 1736-1749.	3.1	38
49	Embolism resistance in stems of herbaceous Brassicaceae and Asteraceae is linked to differences in woodiness and precipitation. <i>Annals of Botany</i> , 2019, 124, 1-14.	2.9	32
50	Embolism resistance in petioles and leaflets of palms. <i>Annals of Botany</i> , 2019, 124, 1173-1183.	2.9	11
51	Responses of plant leaf economic and hydraulic traits mediate the effects of early- and late-season drought on grassland productivity. <i>AoB PLANTS</i> , 2019, 11, plz023.	2.3	17
52	Drought response strategies and hydraulic traits contribute to mechanistic understanding of plant dry-down to hydraulic failure. <i>Tree Physiology</i> , 2019, 39, 910-924.	3.1	96
53	Similar hydraulic efficiency and safety across vesselless angiosperms and vessel-bearing species with scalariform perforation plates. <i>Journal of Experimental Botany</i> , 2019, 70, 3227-3240.	4.8	29
54	Large hydraulic safety margins protect Neotropical canopy rainforest tree species against hydraulic failure during drought. <i>Annals of Forest Science</i> , 2019, 76, 1.	2.0	39

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55	A paleobiogeographical scenario for the Taxaceae based on a revised fossil wood record and embolism resistance. <i>Review of Palaeobotany and Palynology</i> , 2019, 263, 147-158.	1.5	5
56	Pollen limitation as a main driver of fruiting dynamics in oak populations. <i>Ecology Letters</i> , 2019, 22, 98-107.	6.4	48
57	Heritability and genetic architecture of reproduction-related traits in a temperate oak species. <i>Tree Genetics and Genomes</i> , 2019, 15, 1.	1.6	55
58	Tree differences in primary and secondary growth drive convergent scaling in leaf area to sapwood area across Europe. <i>New Phytologist</i> , 2018, 218, 1383-1392.	7.3	18
59	Drought will not leave your glass empty: Low risk of hydraulic failure revealed by long-term drought observations in world's top wine regions. <i>Science Advances</i> , 2018, 4, eaao6969.	10.3	107
60	The legacy of water deficit on populations having experienced negative hydraulic safety margin. <i>Global Ecology and Biogeography</i> , 2018, 27, 346-356.	5.8	36
61	Variation in xylem vulnerability to embolism in European beech from geographically marginal populations. <i>Tree Physiology</i> , 2018, 38, 173-185.	3.1	93
62	Insular woody daisies (<i>Argyranthemum</i> , Asteraceae) are more resistant to drought-induced hydraulic failure than their herbaceous relatives. <i>Functional Ecology</i> , 2018, 32, 1467-1478.	3.6	46
63	Testing the plant pneumatic method to estimate xylem embolism resistance in stems of temperate trees. <i>Tree Physiology</i> , 2018, 38, 1016-1025.	3.1	47
64	Assessing inter- and intraspecific variability of xylem vulnerability to embolism in oaks. <i>Forest Ecology and Management</i> , 2018, 424, 53-61.	3.2	84
65	Is There Variability for Xylem Vulnerability to Cavitation in Walnut Tree Cultivars and Species (<i>Juglans</i>)? <i>Tree Physiology</i> , 2018, 38, 1016-1025.	1.0	14
66	Intraspecific variation in embolism resistance and stem anatomy across four sunflower (<i>Helianthus annuus</i> L.) accessions. <i>Physiologia Plantarum</i> , 2018, 163, 59-72.	5.2	16
67	Quantifying in situ phenotypic variability in the hydraulic properties of four tree species across their distribution range in Europe. <i>PLoS ONE</i> , 2018, 13, e0196075.	2.5	25
68	Isotopic evidence for oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2018, 2, 1735-1744.	7.8	138
69	An inconvenient truth about xylem resistance to embolism in the model species for refilling <i>Laurus nobilis</i> L.. <i>Annals of Forest Science</i> , 2018, 75, 1.	2.0	53
70	Is xylem of angiosperm leaves less resistant to embolism than branches? Insights from microCT, hydraulics, and anatomy. <i>Journal of Experimental Botany</i> , 2018, 69, 5611-5623.	4.8	46
71	The ground plot counting method: A valid and reliable assessment tool for quantifying seed production in temperate oak forests?. <i>Forest Ecology and Management</i> , 2018, 430, 143-149.	3.2	11
72	Birds girdling activity on exotic tree species as a form of adaptive behavior?. <i>Contemporary Problems of Ecology</i> , 2017, 10, 193-202.	0.7	0

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73	Xylem resistance to embolism: presenting a simple diagnostic test for the open vessel artefact. <i>New Phytologist</i> , 2017, 215, 489-499.	7.3	56
74	Integrating interactive effects of chilling and photoperiod in phenological process-based models. A case study with two European tree species: <i>Fagus sylvatica</i> and <i>Quercus petraea</i> . <i>Agricultural and Forest Meteorology</i> , 2017, 244-245, 9-20.	4.8	31
75	Aridity drove the evolution of extreme embolism resistance and the radiation of <i>Callitris</i> genus. <i>New Phytologist</i> , 2017, 215, 97-112.	7.3	132
76	Are forest disturbances amplifying or canceling out climate change-induced productivity changes in European forests?. <i>Environmental Research Letters</i> , 2017, 12, 034027.	5.2	142
77	Evolutionary dynamics of the leaf phenological cycle in an oak metapopulation along an elevation gradient. <i>Journal of Evolutionary Biology</i> , 2017, 30, 2116-2131.	1.7	49
78	Plant resistance to drought depends on timely stomatal closure. <i>Ecology Letters</i> , 2017, 20, 1437-1447.	6.4	486
79	Increasing spring temperatures favor oak seed production in temperate areas. <i>Scientific Reports</i> , 2017, 7, 8555.	3.3	73
80	Optical Measurement of Stem Xylem Vulnerability. <i>Plant Physiology</i> , 2017, 174, 2054-2061.	4.8	80
81	Vulnerability to xylem embolism as a major correlate of the environmental distribution of rain forest species on a tropical island. <i>Plant, Cell and Environment</i> , 2017, 40, 277-289.	5.7	67
82	Adaptive and plastic responses of <i>Quercus petraea</i> populations to climate across Europe. <i>Global Change Biology</i> , 2017, 23, 2831-2847.	9.5	92
83	Sex determines xylem anatomy in a dioecious conifer: hydraulic consequences in a drier world. <i>Tree Physiology</i> , 2017, 37, 1493-1502.	3.1	32
84	A framework for modeling adaptive forest management and decision making under climate change. <i>Ecology and Society</i> , 2017, 22, .	2.3	72
85	A synthesis of radial growth patterns preceding tree mortality. <i>Global Change Biology</i> , 2017, 23, 1675-1690.	9.5	394
86	Monitoring Xylem Hydraulic Pressure in Woody Plants. <i>Bio-protocol</i> , 2017, 7, e2580.	0.4	3
87	Drought avoidance and vulnerability in the Australian Araucariaceae. <i>Tree Physiology</i> , 2016, 36, tpv111.	3.1	8
88	Osmolality and Non-Structural Carbohydrate Composition in the Secondary Phloem of Trees across a Latitudinal Gradient in Europe. <i>Frontiers in Plant Science</i> , 2016, 7, 726.	3.6	60
89	Desiccation and Mortality Dynamics in Seedlings of Different European Beech (<i>Fagus sylvatica</i> L.) Populations under Extreme Drought Conditions. <i>Frontiers in Plant Science</i> , 2016, 7, 751.	3.6	72
90	Indirect Evidence for Genetic Differentiation in Vulnerability to Embolism in <i>Pinus halepensis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 768.	3.6	49

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91	Intraspecific Variation in Wood Anatomical, Hydraulic, and Foliar Traits in Ten European Beech Provenances Differing in Growth Yield. <i>Frontiers in Plant Science</i> , 2016, 7, 791.	3.6	80
92	Are needles of <i>Pinus pinaster</i> more vulnerable to xylem embolism than branches? New insights from X-ray computed tomography. <i>Plant, Cell and Environment</i> , 2016, 39, 860-870.	5.7	74
93	Tomography and imaging at the PSICHE beam line of the SOLEIL synchrotron. <i>Review of Scientific Instruments</i> , 2016, 87, 093704.	1.3	59
94	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
95	Host range expansion is density dependent. <i>Oecologia</i> , 2016, 182, 779-788.	2.0	12
96	On research priorities to advance understanding of the safety-efficiency tradeoff in xylem. <i>New Phytologist</i> , 2016, 211, 1156-1158.	7.3	21
97	Scalariform-to-simple transition in vessel perforation plates triggered by differences in climate during the evolution of Adoxaceae. <i>Annals of Botany</i> , 2016, 118, 1043-1056.	2.9	34
98	Evidence for Hydraulic Vulnerability Segmentation and Lack of Xylem Refilling under Tension. <i>Plant Physiology</i> , 2016, 172, 1657-1668.	4.8	132
99	Fruiting Strategies of Perennial Plants: A Resource Budget Model to Couple Mast Seeding to Pollination Efficiency and Resource Allocation Strategies. <i>American Naturalist</i> , 2016, 188, 66-75.	2.1	26
100	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
101	Testing the "microbubble effect"™ using the Cavitron technique to measure xylem water extraction curves. <i>AoB PLANTS</i> , 2016, 8, .	2.3	21
102	How adaptable is the hydraulic system of European beech in the face of climate change-related precipitation reduction?. <i>New Phytologist</i> , 2016, 210, 443-458.	7.3	178
103	Herbaceous angiosperms are not more vulnerable to drought-induced embolism than angiosperm trees. <i>Plant Physiology</i> , 2016, 172, pp.00829.2016.	4.8	70
104	Low intra-tree variability in resistance to embolism in four Pinaceae species. <i>Annals of Forest Science</i> , 2016, 73, 681-689.	2.0	19
105	Toward an index of desiccation time to tree mortality under drought. <i>Plant, Cell and Environment</i> , 2016, 39, 2342-2345.	5.7	83
106	Noninvasive Measurement of Vulnerability to Drought-Induced Embolism by X-Ray Microtomography. <i>Plant Physiology</i> , 2016, 170, 273-282.	4.8	133
107	Direct X-Ray Microtomography Observation Confirms the Induction of Embolism upon Xylem Cutting under Tension. <i>Plant Physiology</i> , 2015, 167, 40-43.	4.8	156
108	Stem xylem resistance to cavitation is related to xylem structure but not to growth and water-use efficiency at the within-population level in <i>Populus nigra</i> L.. <i>Journal of Experimental Botany</i> , 2015, 66, 4643-4652.	4.8	41

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109	New insight into leaf drought tolerance. <i>Functional Ecology</i> , 2015, 29, 1247-1249.	3.6	77
110	Extreme Aridity Pushes Trees to Their Physical Limits. <i>Plant Physiology</i> , 2015, 168, 804-807.	4.8	51
111	Genetic differentiation and phenotypic plasticity in life-history traits between native and introduced populations of invasive maple trees. <i>Biological Invasions</i> , 2015, 17, 1109-1122.	2.4	39
112	The high vulnerability of <i>Quercus robur</i> to drought at its southern margin paves the way for <i>Quercus ilex</i> . <i>Plant Ecology</i> , 2015, 216, 177-187.	1.6	53
113	Escape of spring frost and disease through phenological variations in oak populations along elevation gradients. <i>Journal of Ecology</i> , 2015, 103, 1044-1056.	4.0	55
114	How do drought and warming influence survival and wood traits of <i>Picea mariana</i> saplings?. <i>Journal of Experimental Botany</i> , 2015, 66, 377-389.	4.8	52
115	X-ray microtomography (microCT): a reference technology for high-resolution quantification of xylem embolism in trees. <i>Plant, Cell and Environment</i> , 2015, 38, 201-206.	5.7	160
116	Near-surface remote sensing observations for monitoring deciduous broadleaf forest species phenology. , 2014, , .		1
117	Recent advances in tree hydraulics highlight the ecological significance of the hydraulic safety margin. <i>New Phytologist</i> , 2014, 203, 355-358.	7.3	158
118	Limited genetic variability and phenotypic plasticity detected for cavitation resistance in a Mediterranean pine. <i>New Phytologist</i> , 2014, 201, 874-886.	7.3	170
119	A broad survey of hydraulic and mechanical safety in the xylem of conifers. <i>Journal of Experimental Botany</i> , 2014, 65, 4419-4431.	4.8	135
120	Inferring shifts in tree species distribution using asymmetric distribution curves: a case study in the Iberian mountains. <i>Journal of Vegetation Science</i> , 2014, 25, 147-159.	2.2	45
121	Genetic divergence in forest trees: understanding the consequences of climate change. <i>Functional Ecology</i> , 2014, 28, 22-36.	3.6	105
122	Chilling and heat requirements for leaf unfolding in European beech and sessile oak populations at the southern limit of their distribution range. <i>International Journal of Biometeorology</i> , 2014, 58, 1853-1864.	3.0	75
123	How reliable are methods to assess xylem vulnerability to cavitation? The issue of 'open vessel' artifact in oaks. <i>Tree Physiology</i> , 2014, 34, 894-905.	3.1	78
124	Climate change and European forests: What do we know, what are the uncertainties, and what are the implications for forest management?. <i>Journal of Environmental Management</i> , 2014, 146, 69-83.	7.8	460
125	Trade-offs between xylem hydraulic properties, wood anatomy and yield in <i>Populus</i> . <i>Tree Physiology</i> , 2014, 34, 744-756.	3.1	66
126	The enigma of the rise of angiosperms: can we untie the knot?. <i>Ecology Letters</i> , 2014, 17, 1326-1338.	6.4	66

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127	Hydraulic failure and repair are not routine in trees. <i>Annals of Forest Science</i> , 2013, 70, 659-661.	2.0	117
128	Change in water loss regulation after canopy clearcut of a dominant shrub in Sahelian agrosystems, <i>Guiera senegalensis</i> J. F. Gmel. <i>Trees - Structure and Function</i> , 2013, 27, 1011-1022.	1.9	6
129	Methods for measuring plant vulnerability to cavitation: a critical review. <i>Journal of Experimental Botany</i> , 2013, 64, 4779-4791.	4.8	319
130	Genetic variation of drought-induced cavitation resistance among <i>Pinus hartwegii</i> populations from an altitudinal gradient. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 2905-2913.	2.1	30
131	Xylem embolism threshold for catastrophic hydraulic failure in angiosperm trees. <i>Tree Physiology</i> , 2013, 33, 672-683.	3.1	406
132	Field Evidence of Colonisation by Holm Oak, at the Northern Margin of Its Distribution Range, during the Anthropocene Period. <i>PLoS ONE</i> , 2013, 8, e80443.	2.5	42
133	A Test for Pre-Adapted Phenotypic Plasticity in the Invasive Tree <i>Acer negundo</i> L.. <i>PLoS ONE</i> , 2013, 8, e74239.	2.5	35
134	Hydraulic efficiency and safety of vascular and non-vascular components in <i>Pinus pinaster</i> leaves. <i>Tree Physiology</i> , 2012, 32, 1161-1170.	3.1	39
135	Global convergence in the vulnerability of forests to drought. <i>Nature</i> , 2012, 491, 752-755.	27.8	1,944
136	Masting in whitebark pine (<i>Pinus albicaulis</i>) depletes stored nutrients. <i>New Phytologist</i> , 2012, 196, 189-199.	7.3	127
137	Micro-evolutionary patterns of juvenile wood density in a pine species. <i>Plant Ecology</i> , 2012, 213, 1781-1792.	1.6	19
138	<i>Q</i> _{ST} & <i>F</i> _{ST} As a signature of canalization. <i>Molecular Ecology</i> , 2012, 21, 5646-5655.	3.9	30
139	Plasmodesmatal pores in the torus of bordered pit membranes affect cavitation resistance of conifer xylem. <i>Plant, Cell and Environment</i> , 2012, 35, 1109-1120.	5.7	66
140	Drought effects on damage by forest insects and pathogens: a meta-analysis. <i>Global Change Biology</i> , 2012, 18, 267-276.	9.5	381
141	Biogeographical contrasts to assess local and regional patterns of invasion: a case study with two reciprocally introduced exotic maple trees. <i>Ecography</i> , 2012, 35, 803-810.	4.5	16
142	Assessing the effects of climate change on the phenology of European temperate trees. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 969-980.	4.8	286
143	Reviewing the Science and Implementation of Climate Change Adaptation Measures in European Forestry. <i>Forests</i> , 2011, 2, 961-982.	2.1	169
144	A meta-analysis of the ecological significance of density in tree invasions. <i>Community Ecology</i> , 2011, 12, 171-178.	0.9	11

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145	Adaptive responses for seed and leaf phenology in natural populations of sessile oak along an altitudinal gradient. <i>Journal of Evolutionary Biology</i> , 2011, 24, 1442-1454.	1.7	119
146	Tree invasions: a comparative test of the dominant hypotheses and functional traits. <i>Biological Invasions</i> , 2011, 13, 1969-1989.	2.4	123
147	Invasive <i>Acer negundo</i> outperforms native species in non-limiting resource environments due to its higher phenotypic plasticity. <i>BMC Ecology</i> , 2011, 11, 28.	3.0	43
148	Monitoring elevation variations in leaf phenology of deciduous broadleaf forests from SPOT/VEGETATION time-series. <i>Remote Sensing of Environment</i> , 2011, 115, 615-627.	11.0	76
149	To what extent is altitudinal variation of functional traits driven by genetic adaptation in European oak and beech?. <i>Tree Physiology</i> , 2011, 31, 1164-1174.	3.1	157
150	Uniform Selection as a Primary Force Reducing Population Genetic Differentiation of Cavitation Resistance across a Species Range. <i>PLoS ONE</i> , 2011, 6, e23476.	2.5	129
151	Xylem function and growth rate interact to determine recovery rates after exposure to extreme water deficit. <i>New Phytologist</i> , 2010, 188, 533-542.	7.3	284
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