Barbara Beikircher

List of Publications by Year
in descending order

27 papers	1,151 citations	430874 18 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	2432 citing authors

#	Article	IF	Citations
1	Shadeâ€induced reduction of stem nonstructural carbohydrates increases xylem vulnerability to embolism and impedes hydraulic recovery in Populus nigra. New Phytologist, 2021, 231, 108-121.	7.3	34
2	Hydraulicâ€stomatal coordination in tree seedlings: tight correlation across environments and ontogeny in Acer pseudoplatanus. New Phytologist, 2021, 232, 1297-1310.	7.3	5
3	Die hard: timberline conifers survive annual winter embolism. New Phytologist, 2020, 226, 13-20.	7.3	31
4	Juniperus communis populations exhibit low variability in hydraulic safety and efficiency. Tree Physiology, 2020, 40, 1668-1679.	3.1	11
5	Are hydraulic patterns of lianas different from trees? New insights from Hedera helix. Journal of Experimental Botany, 2019, 70, 2811-2822.	4.8	8
6	Does fertilization explain the extraordinary hydraulic behaviour of apple trees?. Journal of Experimental Botany, 2019, 70, 1915-1925.	4.8	14
7	Insights from inÂvivo microâ€<scp>CT</scp> analysis: testing the hydraulic vulnerability segmentation in Acer pseudoplatanus and Fagus sylvatica seedlings. New Phytologist, 2019, 221, 1831-1842.	7.3	53
8	Acclimation of branch and leaf hydraulics in adult Fagus sylvatica and Picea abies in a forest through-fall exclusion experiment. Tree Physiology, 2018, 38, 198-211.	3.1	37
9	Xylem anatomical adjustments prioritize hydraulic efficiency over safety as Norway spruce trees grow taller. Tree Physiology, 2018, 38, 1088-1097.	3.1	49
10	Annual patterns of xylem embolism in high-yield apple cultivars. Functional Plant Biology, 2017, 44, 587.	2.1	9
11	Xylem Sap Surface Tension May Be Crucial for Hydraulic Safety. Plant Physiology, 2017, 175, 1135-1143.	4.8	24
12	A synthesis of radial growth patterns preceding tree mortality. Global Change Biology, 2017, 23, 1675-1690.	9.5	394
13	Prolonged Soil Frost Affects Hydraulics and Phenology of Apple Trees. Frontiers in Plant Science, 2016, 7, 867.	3.6	25
14	Herb Hydraulics: Inter- and Intraspecific Variation in Three Ranunculus Species. Plant Physiology, 2016, 170, 2085-2094.	4.8	21
15	Avoidance of harvesting and sampling artefacts in hydraulic analyses: a protocol tested onMalus domestica. Tree Physiology, 2016, 36, 797-803.	3.1	21
16	Xylem cavitation resistance can be estimated based on timeâ€dependent rate of acoustic emissions. New Phytologist, 2015, 208, 625-632.	7.3	29
17	Vulnerability to cavitation in Olea europaea currentâ€year shoots: further evidence of an openâ€vessel artifact associated with centrifuge and airâ€injection techniques. Physiologia Plantarum, 2014, 152, 465-474.	5.2	92
18	Static and dynamic bending has minor effects on xylem hydraulics of conifer branches (P icea abies , P) Tj ETQq0 0 0 rgBT /Overlock 10	5.7	4

#	Article	IF	Citations
19	Hydraulics of high-yield orchard trees: a case study of three Malus domestica cultivars. Tree Physiology, 2013, 33, 1296-1307.	3.1	32
20	Plant Water Relations in Alpine Winter. , 2012, , 153-162.		12
21	Drought and frost resistance of trees: a comparison of four species at different sites and altitudes. Annals of Forest Science, 2012, 69, 325-333.	2.0	42
22	Damage in needle tissues after infection with Chrysomyxa rhododendri increases cuticular conductance of Picea abies in winter. Protoplasma, 2010, 243, 137-143.	2.1	13
23	Hydraulic plasticity and limitations of alpine Rhododendron species. Oecologia, 2010, 164, 321-330.	2.0	18
24	Restoration of rocky slopes based on planted gabions and use of drought-preconditioned woody species. Ecological Engineering, 2010, 36, 421-426.	3.6	32
25	Limitation of the Cavitron technique by conifer pit aspiration. Journal of Experimental Botany, 2010, 61, 3385-3393.	4.8	30
26	Intraspecific differences in drought tolerance and acclimation in hydraulics of Ligustrum vulgare and Viburnum lantana. Tree Physiology, 2009, 29, 765-775.	3.1	76
27	The hydraulic architecture of Juniperus communis L. ssp. communis: shrubs and trees compared. Plant, Cell and Environment, 2008, 31, 1545-1556.	5.7	35