

# Barbara Beikircher

## List of Publications by Year in descending order

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Version: 2024-02-01

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	A synthesis of radial growth patterns preceding tree mortality. <i>Global Change Biology</i> , 2017, 23, 1675-1690.	9.5	394
2	Vulnerability to cavitation in <i>Olea europaea</i> current-year shoots: further evidence of an open-vessel artifact associated with centrifuge and air-injection techniques. <i>Physiologia Plantarum</i> , 2014, 152, 465-474.	5.2	92
3	Intraspecific differences in drought tolerance and acclimation in hydraulics of <i>Ligustrum vulgare</i> and <i>Viburnum lantana</i> . <i>Tree Physiology</i> , 2009, 29, 765-775.	3.1	76
4	Insights from <i>in vivo</i> micro-CT analysis: testing the hydraulic vulnerability segmentation in <i>Acer pseudoplatanus</i> and <i>Fagus sylvatica</i> seedlings. <i>New Phytologist</i> , 2019, 221, 1831-1842.	7.3	53
5	Xylem anatomical adjustments prioritize hydraulic efficiency over safety as Norway spruce trees grow taller. <i>Tree Physiology</i> , 2018, 38, 1088-1097.	3.1	49
6	Drought and frost resistance of trees: a comparison of four species at different sites and altitudes. <i>Annals of Forest Science</i> , 2012, 69, 325-333.	2.0	42
7	Acclimation of branch and leaf hydraulics in adult <i>Fagus sylvatica</i> and <i>Picea abies</i> in a forest through-fall exclusion experiment. <i>Tree Physiology</i> , 2018, 38, 198-211.	3.1	37
8	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.	5.7	35
9	Shade-induced reduction of stem nonstructural carbohydrates increases xylem vulnerability to embolism and impedes hydraulic recovery in <i>Populus nigra</i> . <i>New Phytologist</i> , 2021, 231, 108-121.	7.3	34
10	Restoration of rocky slopes based on planted gabions and use of drought-preconditioned woody species. <i>Ecological Engineering</i> , 2010, 36, 421-426.	3.6	32
11	Hydraulics of high-yield orchard trees: a case study of three <i>Malus domestica</i> cultivars. <i>Tree Physiology</i> , 2013, 33, 1296-1307.	3.1	32
12	Die hard: timberline conifers survive annual winter embolism. <i>New Phytologist</i> , 2020, 226, 13-20.	7.3	31
13	Limitation of the Cavitron technique by conifer pit aspiration. <i>Journal of Experimental Botany</i> , 2010, 61, 3385-3393.	4.8	30
14	Xylem cavitation resistance can be estimated based on time-dependent rate of acoustic emissions. <i>New Phytologist</i> , 2015, 208, 625-632.	7.3	29
15	Prolonged Soil Frost Affects Hydraulics and Phenology of Apple Trees. <i>Frontiers in Plant Science</i> , 2016, 7, 867.	3.6	25
16	Xylem Sap Surface Tension May Be Crucial for Hydraulic Safety. <i>Plant Physiology</i> , 2017, 175, 1135-1143.	4.8	24
17	Herb Hydraulics: Inter- and Intraspecific Variation in Three <i>Ranunculus</i> Species. <i>Plant Physiology</i> , 2016, 170, 2085-2094.	4.8	21
18	Avoidance of harvesting and sampling artefacts in hydraulic analyses: a protocol tested on <i>Malus domestica</i> . <i>Tree Physiology</i> , 2016, 36, 797-803.	3.1	21

#	ARTICLE	IF	CITATIONS
19	Hydraulic plasticity and limitations of alpine <i>Rhododendron</i> species. <i>Oecologia</i> , 2010, 164, 321-330.	2.0	18
20	Does fertilization explain the extraordinary hydraulic behaviour of apple trees?. <i>Journal of Experimental Botany</i> , 2019, 70, 1915-1925.	4.8	14
21	Damage in needle tissues after infection with <i>Chrysomyxa rhododendri</i> increases cuticular conductance of <i>Picea abies</i> in winter. <i>Protoplasma</i> , 2010, 243, 137-143.	2.1	13
22	Plant Water Relations in Alpine Winter. , 2012, , 153-162.		12
23	<i>Juniperus communis</i> populations exhibit low variability in hydraulic safety and efficiency. <i>Tree Physiology</i> , 2020, 40, 1668-1679.	3.1	11
24	Annual patterns of xylem embolism in high-yield apple cultivars. <i>Functional Plant Biology</i> , 2017, 44, 587.	2.1	9
25	Are hydraulic patterns of lianas different from trees? New insights from <i>Hedera helix</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 2811-2822.	4.8	8
26	Hydraulic-stomatal coordination in tree seedlings: tight correlation across environments and ontogeny in <i>Acer pseudoplatanus</i> . <i>New Phytologist</i> , 2021, 232, 1297-1310.	7.3	5
27	Static and dynamic bending has minor effects on xylem hydraulics of conifer branches ( <i>Picea abies</i> ). <i>Tree Physiology</i> , 2019, 39, 1078-1091.	1.0	4