Sabine Rosner

List of Publications by Year
in descending order

53 papers	1,760 citations	279798 23 h-index	289244 40 g-index
54 all docs	54 docs citations	54 times ranked	2500 citing authors

#	Article	IF	Citations
1	Summer temperatures reach the thermal tolerance threshold of photosynthetic decline in temperate conifers. Plant Biology, 2022, 24, 1254-1261.	3.8	23
2	Breathing life into trees: the physiological and biomechanical functions of lenticels. IAWA Journal, 2022, 43, 234-262.	1.0	7
3	Physiological and anatomical responses to drought stress differ between two larch species and their hybrid. Trees - Structure and Function, 2021, 35, 1467-1484.	1.9	13
4	Lignin Quantification of Papyri by TGAâ€"Not a Good Idea. Molecules, 2021, 26, 4384.	3.8	10
5	Ready for Screening: Fast Assessable Hydraulic and Anatomical Proxies for Vulnerability to Cavitation of Young Conifer Sapwood. Forests, 2021, 12, 1104.	2.1	4
6	Container volume affects drought experiments in grapevines: Insights on xylem anatomy and time of dehydration. Physiologia Plantarum, 2021, 173, 2181-2190.	5.2	8
7	Q-NET â€" a new scholarly network on quantitative wood anatomy. Dendrochronologia, 2021, 70, 125890.	2.2	6
8	Verifying sensitivity of a sensor system for logging xylemâ€™s acoustic emissions related to drought stress. , 2021, , .		1
9	Using the CODIT model to explain secondary metabolites of xylem in defence systems of temperate trees against decay fungi. Annals of Botany, 2020, 125, 701-720.	2.9	50
10	A synoptic view on intra-annual density fluctuations in Abies alba. Dendrochronologia, 2020, 64, 125781.	2.2	10
11	Time-frequency features of grapevineâ€™s xylem acoustic emissions for detection of drought stress. Computers and Electronics in Agriculture, 2020, 178, 105797.	7.7	7
12	The conifer-curve: fast prediction of hydraulic conductivity loss and vulnerability to cavitation. Annals of Forest Science, 2019, 76, 1.	2.0	13
13	Winter Embolism and Recovery in the Conifer Shrub Pinus mugo L.. Forests, 2019, 10, 941.	2.1	17
14	The potential of Mid-Infrared spectroscopy for prediction of wood density and vulnerability to embolism in woody angiosperms. Tree Physiology, 2019, 39, 503-510.	3.1	19
15	Within-ring variability of wood structure and its relationship to drought sensitivity in Norway spruce trunks. IAWA Journal, 2019, 40, 288-310.	2.7	7
16	OUP accepted manuscript. , 2019, 7, coz012.		10
17	Prediction of hydraulic conductivity loss from relative water loss: new insights into water storage of tree stems and branches. Physiologia Plantarum, 2019, 165, 843-854.	5.2	41
18	Hydraulic and mechanical dysfunction of Norway spruce sapwood due to extreme summer drought in Scandinavia. Forest Ecology and Management, 2018, 409, 527-540.	3.2	33

#	Article	IF	Citations
19	Transpiration deficits increase host susceptibility to bark beetle attack: Experimental observations and practical outcomes for Ips typographus hazard assessment. Agricultural and Forest Meteorology, 2018, 263, 69-89.	4.8	45
20	Wood traits related to size and life history of trees in a Panamanian rainforest. New Phytologist, 2017, 213, 170-180.	7.3	80
21	Novel Hydraulic Vulnerability Proxies for a Boreal Conifer Species Reveal That Opportunists May Have Lower Survival Prospects under Extreme Climatic Events. Frontiers in Plant Science, 2016, 7, 831.	3.6	35
22	Sap flux â€" a real time assessment of health status in Norway spruce. Scandinavian Journal of Forest Research, 2016, 31, 450-457.	1.4	11
23	Xylem cavitation resistance can be estimated based on timeâ€dependent rate of acoustic emissions. New Phytologist, 2015, 208, 625-632.	7.3	29
24	Hydraulic traits of Norway spruce sapwood estimated by Fourier transform near-infrared spectroscopy (FT-NIR). Canadian Journal of Forest Research, 2015, 45, 625-631.	1.7	6
25	Do waterâ€limiting conditions predispose <scp>N</scp>orway spruce to bark beetle attack?. New Phytologist, 2015, 205, 1128-1141.	7.3	156
26	A new type of vulnerability curve: is there truth in vine?. Tree Physiology, 2015, 35, 410-414.	3.1	16
27	Uptake of Water via Branches Helps Timberline Conifers Refill Embolized Xylem in Late Winter Â Â Â. Plant Physiology, 2014, 164, 1731-1740.	4.8	142
28	Wood density as a screening trait for drought sensitivity in Norway spruce. Canadian Journal of Forest Research, 2014, 44, 154-161.	1.7	58
29	Norway spruce physiological and anatomical predisposition to dieback. Forest Ecology and Management, 2014, 322, 27-36.	3.2	57
30	Hydraulic and biomechanical optimization in norway spruce trunkwood â€" a review. IAWA Journal, 2013, 34, 365-390.	2.7	30
31	SAP FLOW DYNAMICS AS A DIAGNOSTIC TOOL IN NORWAY SPRUCE. Acta Horticulturae, 2013, , 31-36.	0.2	7
32	DIFFERENTIAL TRANSLUCENCE METHOD AS A SUPPLEMENT TO SAP FLOW MEASUREMENT IN NORWAY SPRUCE WITH SYMPTOMS OF TOP DIEBACK. Acta Horticulturae, 2013, , 285-292.	0.2	6
33	Within-ring movement of free water in dehydrating Norway spruce sapwood visualized by neutron radiography. Holzforschung, 2012, 66, 751-756.	1.9	13
34	An improved method and data analysis for ultrasound acoustic emissions and xylem vulnerability in conifer wood. Physiologia Plantarum, 2012, 146, 184-191.	5.2	30
35	Hydraulic efficiency compromises compression strength perpendicular to the grain in Norway spruce trunkwood. Trees - Structure and Function, 2011, 25, 289-299.	1.9	12
36	Digital image analysis of radial shrinkage of fresh spruce (Picea abiesL.) wood. Wood Material Science and Engineering, 2011, 6, 2-6.	2.3	3

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37	Cavitation in dehydrating xylem of Picea abies: energy properties of ultrasonic emissions reflect tracheid dimensions. Tree Physiology, 2011, 31, 59-67.	3.1	45
38	Radial shrinkage and ultrasound acoustic emissions of fresh versus pre-dried Norway spruce sapwood. Trees - Structure and Function, 2010, 24, 931-940.	1.9	21
39	Shrinkage processes in standard-size Norway spruce wood specimens with different vulnerability to cavitation. Tree Physiology, 2009, 29, 1419-1431.	3.1	46
40	Comparaison de mÃ©thodes de quantification des pertes de conductivitÃ© hydraulique chez lâ€™Ã©picÃ©a. Annals of Forest Science, 2008, 65, 502-502.	2.0	42
41	Tradeoffs between hydraulic and mechanical stress responses of mature Norway spruce trunk wood. Tree Physiology, 2008, 28, 1179-1188.	3.1	45
42	Hydraulic and mechanical properties of young Norway spruce clones related to growth and wood structure. Tree Physiology, 2007, 27, 1165-1178.	3.1	53
43	Extraction of features from ultrasound acoustic emissions: a tool to assess the hydraulic vulnerability of Norway spruce trunkwood?. New Phytologist, 2006, 171, 105-116.	7.3	76
44	Genetic parameters of growth and wood quality traits inPicea abies. Scandinavian Journal of Forest Research, 2004, 19, 14-29.	1.4	171
45	Resin canal traits relevant for constitutive resistance of Norway spruce against bark beetles: environmental and genetic variability. Forest Ecology and Management, 2004, 200, 77-87.	3.2	61
46	STRUCTURAL CHANGES IN PRIMARY LENTICELS OF NORWAY SPRUCE OVER THE SEASONS. IAWA Journal, 2003, 24, 105-116.	2.7	16
47	Defence reactions of Norway spruce against bark beetles and the associated fungus Ceratocystis polonica in secondary pure and mixed species stands. Forest Ecology and Management, 2002, 159, 73-86.	3.2	68
48	Genetic parameters for spiral-grain angle in two 19-year-old clonal Norway spruce trials. Annals of Forest Science, 2002, 59, 551-556.	2.0	18
49	The significance of lenticels for successful Pityogenes chalcographus (Coleoptera: Scolytidae) invasion of Norway spruce trees [Picea abies (Pinaceae)]. Trees - Structure and Function, 2002, 16, 497-503.	1.9	16
50	Osmotic potential of Norway spruce [Picea abies (L.) Karst.] secondary phloem in relation to anatomy. Trees - Structure and Function, 2001, 15, 472-482.	1.9	25
51	Zur Ãœberwinterungsstrategie der Kleinen Fichtenblattwespe, <i>Pristiphora abietina</i> Christ. (Hym.,) Tj ETQq1 1 0.784314 rgBT /O	1.8	7
52	Chronology of hydraulic vulnerability in trunk wood of conifer trees with and without symptoms of top dieback. The Journal of Plant Hydraulics, 0, 3, e001.	1.0	4
53	Wood density as a proxy for vulnerability to cavitation: Size matters. The Journal of Plant Hydraulics, 0, 4, e001.	1.0	31