Jarmila Pittermann

List of Publications by Year
in descending order

42 papers	5,436 citations	361413 20 h-index	289244 40 g-index
42 all docs	42 docs citations	42 times ranked	5586 citing authors

#	Article	IF	Citations
1	Insights into the evolutionary history and widespread occurrence of antheridiogen systems in ferns. New Phytologist, 2021, 229, 607-619.	7.3	16
2	Leaf water relations in epiphytic ferns are driven by drought avoidance rather than tolerance mechanisms. Plant, Cell and Environment, 2021, 44, 1741-1755.	5.7	15
3	Primary tissues may affect estimates of cavitation resistance in ferns. New Phytologist, 2021, 231, 285-296.	7.3	8
4	Positive root pressure is critical for whole-plant desiccation recovery in two species of terrestrial resurrection ferns. Journal of Experimental Botany, 2020, 71, 1139-1150.	4.8	18
5	Xylem form and function under extreme nutrient limitation: an example from California's pygmy forest. New Phytologist, 2020, 226, 760-769.	7.3	9
6	Limited hydraulic adjustments drive the acclimation response of Pteridium aquilinum to variable light. Annals of Botany, 2020, 125, 691-700.	2.9	11
7	Two coastal Pacific evergreens, Arbutus menziesii, Pursh. and Quercus agrifolia, NÃ©e show little water stress during California's exceptional drought. PLoS ONE, 2020, 15, e0230868.	2.5	6
8	Cheap and attractive: water relations and floral adaptation. New Phytologist, 2019, 223, 8-10.	7.3	8
9	Highâ€resolution computed tomography reveals dynamics of desiccation and rehydration in fern petioles of a desiccationâ€tolerant fern. New Phytologist, 2019, 224, 97-105.	7.3	19
10	Small trees, big problems: Comparative leaf function under extreme edaphic stress. American Journal of Botany, 2018, 105, 50-59.	1.7	9
11	Geometry, Allometry and Biomechanics of Fern Leaf Petioles: Their Significance for the Evolution of Functional and Ecological Diversity Within the Pteridaceae. Frontiers in Plant Science, 2018, 9, 197.	3.6	18
12	Transport efficiency and cavitation resistance in developing shoots: a risk worth taking. Tree Physiology, 2018, 38, 1085-1087.	3.1	5
13	Influence of low light intensity on growth and biomass allocation, leaf photosynthesis and canopy radiation interception and use in two forage species of <i>Centrosema</i> (<scp>DC</scp>.) Benth.. Grass and Forage Science, 2018, 73, 967-978.	2.9	32
14	The water relations and xylem attributes of albino redwood shoots (Sequioa sempervirens (D. Don.)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	6
15	Embolism spread in the primary xylem of <i>Polystichum munitum</i>: implications for water transport during seasonal drought. Plant, Cell and Environment, 2016, 39, 338-346.	5.7	9
16	Not dead yet: the seasonal water relations of two perennial ferns during California's exceptional drought. New Phytologist, 2016, 210, 122-132.	7.3	18
17	Evergreen and Deciduous Ferns of the Coast Redwood Forest. MadroÃ±o, 2016, 63, 329-339.	0.4	6
18	Weak tradeoff between xylem safety and xylemâ€specific hydraulic efficiency across the world's woody plant species. New Phytologist, 2016, 209, 123-136.	7.3	466

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19	Seasonal changes in tissueâ€water relations for eight species of ferns during historic drought in California. American Journal of Botany, 2016, 103, 1607-1617.	1.7	17
20	Convergent evolution of vascular optimization in kelp (Laminariales). Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151667.	2.6	19
21	The Hydraulic Architecture of Conifers. , 2015, , 39-75.		29
22	The Structure and Function of Xylem in Seed-Free Vascular Plants: An Evolutionary Perspective. , 2015, , 1-37.		20
23	Pteris Ã—caridadiae (Pteridaceae), a new hybrid fern from Costa Rica. Brittonia, 2015, 67, 138-143.	0.2	6
24	Cavitation Resistance in Seedless Vascular Plants: The Structure and Function of Interconduit Pit Membranes Â Â. Plant Physiology, 2014, 165, 895-904.	4.8	53
25	Heavy browsing affects the hydraulic capacity of Ceanothus rigidus (Rhamnaceae). Oecologia, 2014, 175, 801-810.	2.0	11
26	The effect of subambient to elevated atmospheric <scp>CO</scp>₂ concentration on vascular function in <i>Helianthus annuus</i>: implications for plant response to climate change. New Phytologist, 2013, 199, 956-965.	7.3	28
27	The physiological resilience of fern sporophytes and gametophytes: advances in water relations offer new insights into an old lineage. Frontiers in Plant Science, 2013, 4, 285.	3.6	79
28	Global convergence in the vulnerability of forests to drought. Nature, 2012, 491, 752-755.	27.8	1,944
29	Cenozoic climate change shaped the evolutionary ecophysiology of the Cupressaceae conifers. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9647-9652.	7.1	125
30	The physiological implications of primary xylem organization in two ferns. Plant, Cell and Environment, 2012, 35, 1898-1911.	5.7	42
31	Structure-function constraints of tracheid-based xylem: a comparison of conifers and ferns. New Phytologist, 2011, 192, 449-461.	7.3	97
32	The Relationships between Xylem Safety and Hydraulic Efficiency in the Cupressaceae: The Evolution of Pit Membrane Form and Function Â Â. Plant Physiology, 2010, 153, 1919-1931.	4.8	123
33	New insights into bordered pit structure and cavitation resistance in angiosperms and conifers. New Phytologist, 2009, 182, 557-560.	7.3	49
34	Hydraulic efficiency and safety of branch xylem increases with height in Sequoia sempervirens (D.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.7	95
35	Mechanical reinforcement of tracheids compromises the hydraulic efficiency of conifer xylem. Plant, Cell and Environment, 2006, 29, 1618-1628.	5.7	218
36	Size and function in conifer tracheids and angiosperm vessels. American Journal of Botany, 2006, 93, 1490-1500.	1.7	524

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37	Analysis of Freeze-Thaw Embolism in Conifers. The Interaction between Cavitation Pressure and Tracheid Size. Plant Physiology, 2006, 140, 374-382.	4.8	162
38	Interâ€tracheid pitting and the hydraulic efficiency of conifer wood: the role of tracheid allometry and cavitation protection. American Journal of Botany, 2006, 93, 1265-1273.	1.7	162
39	Torus-Margo Pits Help Conifers Compete with Angiosperms. Science, 2005, 310, 1924-1924.	12.6	165
40	Tracheid diameter is the key trait determining the extent of freezing-induced embolism in conifers. Tree Physiology, 2003, 23, 907-914.	3.1	220
41	Cavitation Fatigue. Embolism and Refilling Cycles Can Weaken the Cavitation Resistance of Xylem. Plant Physiology, 2001, 125, 779-786.	4.8	293
42	Drought experience and cavitation resistance in six shrubs from the Great Basin, Utah. Basic and Applied Ecology, 2000, 1, 31-41.	2.7	276