Peter Hietz

List of Publications by Year
in descending order

74 papers	5,319 citations	109321 35 h-index	88630 70 g-index
80 all docs	80 docs citations	80 times ranked	7847 citing authors

#	Article	IF	Citations
1	Putting vascular epiphytes on the traits map. Journal of Ecology, 2022, 110, 340-358.	4.0	19
2	Effects of Provenance, Growing Site, and Growth on Quercus robur Wood Anatomy and Density in a 12-Year-Old Provenance Trial. Frontiers in Plant Science, 2022, 13, 795941.	3.6	1
3	Drivers of foliar <scp>¹⁵N</scp> trends in southern China over the last century. Global Change Biology, 2022, 28, 5441-5452.	9.5	7
4	Global relationships in tree functional traits. Nature Communications, 2022, 13, .	12.8	29
5	High exposure of global tree diversity to human pressure. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	18
6	Strong floristic distinctiveness across Neotropical successional forests. Science Advances, 2022, 8, .	10.3	10
7	Recovery of aboveground biomass, species richness and composition in tropical secondary forests in SW Costa Rica. Forest Ecology and Management, 2021, 479, 118580.	3.2	24
8	Functional biogeography of Neotropical moist forests: Traitâ€“climate relationships and assembly patterns of tree communities. Global Ecology and Biogeography, 2021, 30, 1430-1446.	5.8	18
9	Container volume affects drought experiments in grapevines: Insights on xylem anatomy and time of dehydration. Physiologia Plantarum, 2021, 173, 2181-2190.	5.2	8
10	Multidimensional tropical forest recovery. Science, 2021, 374, 1370-1376.	12.6	165
11	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
12	Climatic and edaphic controls over tropical forest diversity and vegetation carbon storage. Scientific Reports, 2020, 10, 5066.	3.3	55
13	Assessing adaptive and plastic responses in growth and functional traits in a 10â€year€old common garden experiment with pedunculate oak (<i>Quercus robur</i> L.) suggests that directional selection can drive climatic adaptation. Evolutionary Applications, 2020, 13, 2422-2438.	3.1	17
14	EpIGâ€DB: A database of vascular epiphyte assemblages in the Neotropics. Journal of Vegetation Science, 2020, 31, 518-528.	2.2	22
15	Successional habitat filtering of rainforest trees is explained by potential growth more than by functional traits. Functional Ecology, 2020, 34, 1438-1447.	3.6	4
16	Reply to: Data do not support large-scale oligotrophication of terrestrial ecosystems. Nature Ecology and Evolution, 2019, 3, 1287-1288.	7.8	4
17	Traits indicating a conservative resource strategy are weakly related to narrow range size in a group of neotropical trees. Perspectives in Plant Ecology, Evolution and Systematics, 2018, 32, 30-37.	2.7	6
18	Radial variation of wood functional traits reflect sizeâ€related adaptations of tree mechanics and hydraulics. Functional Ecology, 2018, 32, 260-272.	3.6	41

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19	Isotopic evidence for oligotrophication of terrestrial ecosystems. Nature Ecology and Evolution, 2018, 2, 1735-1744.	7.8	138
20	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
21	Trait evolution in tropical rubber (<i>Hevea brasiliensis</i>) trees is related to dry season intensity. Functional Ecology, 2018, 32, 2638-2651.	3.6	14
22	Wood traits related to size and life history of trees in a Panamanian rainforest. New Phytologist, 2017, 213, 170-180.	7.3	80
23	Examining the influences of site conditions and disturbance on rainforest structure through tree ring analyses in two Araucariaceae species. Forest Ecology and Management, 2016, 366, 65-72.	3.2	7
24	Environmental gradients and the evolution of successional habitat specialization: a test case with 14 Neotropical forest sites. Journal of Ecology, 2015, 103, 1276-1290.	4.0	50
25	High-resolution densitometry and elemental analysis of tropical wood. Trees - Structure and Function, 2015, 29, 487-497.	1.9	29
26	15N in tree rings as a bio-indicator of changing nitrogen cycling in tropical forests: an evaluation at three sites using two sampling methods. Frontiers in Plant Science, 2015, 6, 229.	3.6	16
27	Do waterâ€limiting conditions predispose <scp>N</scp>orway spruce to bark beetle attack?. New Phytologist, 2015, 205, 1128-1141.	7.3	156
28	Strong radial variation in wood density follows a uniform pattern in two neotropical rain forests. Functional Ecology, 2013, 27, 684-692.	3.6	48
29	Radial Gradients in Wood Specific Gravity, Water and Gas Content in Trees of a Mexican Tropical Rain Forest. Biotropica, 2013, 45, 280-287.	1.6	12
30	Oxygen isotopes in tree rings record variation in precipitation <i>Î´</i>¹⁸O and amount effects in the south of Mexico. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1604-1615.	3.0	30
31	Germination of Epiphytic Bromeliads in Forests and Coffee Plantations: Microclimate and Substrate Effects. Biotropica, 2012, 44, 197-204.	1.6	19
32	Survival and Growth of Juvenile Bromeliads in Coffee Plantations and Forests in <scp>C</scp>entral <scp>V</scp>eracruz, <scp>M</scp>exico. Biotropica, 2012, 44, 341-349.	1.6	4
33	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
34	Long-Term Change in the Nitrogen Cycle of Tropical Forests. Science, 2011, 334, 664-666.	12.6	250
35	A simple program to measure and analyse tree rings using Excel, R and SigmaScan. Dendrochronologia, 2011, 29, 245-250.	2.2	22
36	Global warming, elevational ranges and the vulnerability of tropical biota. Biological Conservation, 2011, 144, 548-557.	4.1	185

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37	Longâ€term increases in intrinsic waterâ€use efficiency do not lead to increased stem growth in a tropical monsoon forest in western Thailand. Global Change Biology, 2011, 17, 1049-1063.	9.5	135
38	High gene flow in epiphytic ferns despite habitat loss and fragmentation. Conservation Genetics, 2011, 12, 1411-1420.	1.5	14
39	Stable carbon isotopes in tree rings indicate improved water use efficiency and drought responses of a tropical dry forest tree species. Trees - Structure and Function, 2011, 25, 103-113.	1.9	80
40	AN IMPROVED MODEL FOR THE DIFFUSION OF OXYGEN INTO RESPIRING WOOD. Journal of Biological Systems, 2011, 19, 101-112.	1.4	0
41	Seedling establishment of epiphytic orchids in forests and coffee plantations in Central Veracruz, Mexico. Journal of Tropical Ecology, 2010, 26, 93-102.	1.1	21
42	Leaf area of beech (Fagus sylvatica L.) from different stands in eastern Austria studied by randomized branch sampling. European Journal of Forest Research, 2010, 129, 401-408.	2.5	12
43	In vitro regeneration of Lycaste aromatica (Graham ex Hook) Lindl. (Orchidaceae) from pseudobulb sections. Plant Biotechnology Reports, 2010, 4, 157-163.	1.5	15
44	Long-Term Trends in Nitrogen Isotope Composition and Nitrogen Concentration in Brazilian Rainforest Trees Suggest Changes in Nitrogen Cycle. Environmental Science & Technology, 2010, 44, 1191-1196.	10.0	44
45	Growth of epiphytic bromeliads in a changing world: The effects of CO2, water and nutrient supply. Acta Oecologica, 2010, 36, 659-665.	1.1	38
46	Wood density and its radial variation in six canopy tree species differing in shade-tolerance in western Thailand. Annals of Botany, 2009, 104, 297-306.	2.9	72
47	Population dynamics of epiphytic orchids in a metapopulation context. Annals of Botany, 2009, 104, 995-1004.	2.9	45
48	Is oxygen involved in beech (Fagus sylvatica) red heartwood formation?. Trees - Structure and Function, 2008, 22, 175-185.	1.9	28
49	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
50	MODELS FOR ANALYZING THE NON-STEADY STATE DIFFUSION OF OXYGEN THROUGH RESPIRING WOOD. Journal of Biological Systems, 2007, 15, 63-72.	1.4	1
51	Population dynamics of epiphytic bromeliads: Life strategies and the role of host branches. Basic and Applied Ecology, 2007, 8, 183-196.	2.7	41
52	Power games cause sparks in physics, but biologists have learnt from evolution. Nature, 2006, 439, 18-18.	27.8	0
53	Gas diffusion through wood: implications for oxygen supply. Trees - Structure and Function, 2006, 20, 34-41.	1.9	137
54	Conservation of Vascular Epiphyte Diversity in Mexican Coffee Plantations. Conservation Biology, 2005, 19, 391-399.	4.7	96

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55	Long-term trends in cellulose Â13 C and water-use efficiency of tropical Cedrela and Swietenia from Brazil. Tree Physiology, 2005, 25, 745-752.	3.1	98
56	Effect of Canopy Position on Germination and Seedling Survival of Epiphytic Bromeliads in a Mexican Humid Montane Forest. Annals of Botany, 2005, 95, 1039-1047.	2.9	108
57	Herbivory in epiphytic bromeliads, orchids and ferns in a Mexican montane forest. Journal of Tropical Ecology, 2005, 21, 147-154.	1.1	34
58	Vulnerability curves from conifer sapwood sections exposed over solutions with known water potentials. Journal of Experimental Botany, 2003, 54, 2149-2155.	4.8	25
59	A new method to determine the oxygen concentration inside the sapwood of trees. Journal of Experimental Botany, 2002, 53, 559-563.	4.8	32
60	Growth, maturation and survival of epiphytic bromeliads in a Mexican humid montane forest. Journal of Tropical Ecology, 2002, 18, 177-191.	1.1	61
61	Seasonal fluctuations in live and dead biomass of Phragmites australis as described by a growth and decomposition model: implications of duration of aerobic conditions for litter mineralization and sedimentation. Aquatic Botany, 2002, 73, 223-239.	1.6	93
62	Nitrogen-15 natural abundance in a montane cloud forest canopy as an indicator of nitrogen cycling and epiphyte nutrition. Oecologia, 2002, 131, 350-355.	2.0	96
63	The physiological ecology of vascular epiphytes: current knowledge, open questions. Journal of Experimental Botany, 2001, 52, 2067-2078.	4.8	300
64	Small plants, large plants: the importance of plant size for the physiological ecology of vascular epiphytes. Journal of Experimental Botany, 2001, 52, 2051-2056.	4.8	128
65	Wood diameter indicates diurnal and long-term patterns of xylem water potential in Norway spruce. Trees - Structure and Function, 2001, 15, 215-221.	1.9	80
66	The significance of carotenoids and tocopherols in photoprotection of seven epiphytic fern species of a Mexican cloud forest. Functional Plant Biology, 2001, 28, 775.	2.1	10
67	Stable isotopic composition of carbon and nitrogen and nitrogen content in vascular epiphytes along an altitudinal transect*. Plant, Cell and Environment, 1999, 22, 1435-1443.	5.7	99
68	Correlation between water relations and within-canopy distribution of epiphytic ferns in a Mexican cloud forest. Oecologia, 1998, 114, 305-316.	2.0	142
69	Population Dynamics of Epiphytes in a Mexican Humid Montane Forest. Journal of Ecology, 1997, 85, 767.	4.0	90
70	Epiphyte vegetation and diversity on remnant trees after forest clearance in southern Veracruz, Mexico. Biological Conservation, 1996, 75, 103-111.	4.1	99
71	Composition and ecology of vascular epiphyte communities along an altitudinal gradient in central Veracruz, Mexico. Journal of Vegetation Science, 1995, 6, 487-498.	2.2	149
72	Structure and ecology of epiphyte communities of a cloud forest in central Veracruz, Mexico. Journal of Vegetation Science, 1995, 6, 719-728.	2.2	97

#	ARTICLE	IF	CITATIONS
73	Decomposition and nutrient dynamics of reed (Phragmites australis (Cav.) Trin. ex Steud.) litter in Lake Neusiedl, Austria. Aquatic Botany, 1992, 43, 211-230.	1.6	73
74	Fern adaptations to xeric environments. , 0, , 140-176.		42