

# Frida I Piper

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

3,395  
citations

218677

26  
h-index

168389

53  
g-index

56  
all docs

56  
docs citations

56  
times ranked

4057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenology explains different storage remobilization in two congeneric temperate tree species with contrasting leaf habit. <i>Tree Physiology</i> , 2022, 42, 501-512.	3.1	9
2	No carbon shortage in declining trees of the isohydric species <i>Araucaria araucana</i> (Molina) K. Koch under drought. <i>Annals of Forest Science</i> , 2022, 79, .	2.0	5
3	The intraspecific relationship between wood density, vessel diameter and other traits across environmental gradients. <i>Functional Ecology</i> , 2022, 36, 1585-1598.	3.6	9
4	Inner bark as a crucial tissue for non-structural carbohydrate storage across three tropical woody plant communities. <i>Plant, Cell and Environment</i> , 2021, 44, 156-170.	5.7	36
5	Drought promotes early leaf abscission regardless of leaf habit but increases litter phosphorus losses only in evergreens. <i>Australian Journal of Botany</i> , 2021, 69, 121-130.	0.6	7
6	Carbon allocation to growth and storage depends on elevation provenance in an herbaceous alpine plant of Mediterranean climate. <i>Oecologia</i> , 2021, 195, 299-312.	2.0	7
7	Putting non-structural compounds on the map of plant life history strategies: a commentary on Schoonmaker et al.. <i>Tree Physiology</i> , 2021, 41, 1559-1562.	3.1	5
8	How to cope with drought and not die trying: Drought acclimation across tree species with contrasting niche breadth. <i>Functional Ecology</i> , 2021, 35, 1903-1913.	3.6	15
9	Low Growth Sensitivity and Fast Replenishment of Non-structural Carbohydrates in a Long-Lived Endangered Conifer After Drought. <i>Frontiers in Plant Science</i> , 2020, 11, 905.	3.6	9
10	Does microwaving or freezing reduce the losses of non-structural carbohydrates during plant sample processing?. <i>Annals of Forest Science</i> , 2020, 77, 1.	2.0	4
11	Decoupling between growth rate and storage remobilization in broadleaf temperate tree species. <i>Functional Ecology</i> , 2020, 34, 1180-1192.	3.6	22
12	The Role of Nonstructural Carbohydrates Storage in Forest Resilience under Climate Change. <i>Current Forestry Reports</i> , 2020, 6, 1-13.	7.4	52
13	Cluster-root bearing Proteaceae species show a competitive advantage over non-cluster root species. <i>Annals of Botany</i> , 2019, 124, 1121-1131.	2.9	5
14	Secondary leaves of an outbreak-adapted tree species are both more resource acquisitive and more herbivore resistant than primary leaves. <i>Tree Physiology</i> , 2019, 39, 1499-1511.	3.1	12
15	Herbivore resistance in congeneric and sympatric <i>Nothofagus</i> species is not related to leaf habit. <i>American Journal of Botany</i> , 2019, 106, 788-797.	1.7	10
16	Cluster root formation and function vary in two species with contrasting geographic ranges. <i>Plant and Soil</i> , 2019, 440, 25-38.	3.7	13
17	The association between a nurse cushion plant and a cluster root-bearing tree species alters the plant community structure. <i>Journal of Ecology</i> , 2019, 107, 2182-2196.	4.0	7
18	Revisiting the relative growth rate hypothesis for gymnosperm and angiosperm species co-occurrence. <i>American Journal of Botany</i> , 2019, 106, 101-112.	1.7	17

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19	Global patterns of insect herbivory in gap and understorey environments, and their implications for woody plant carbon storage. <i>Oikos</i> , 2018, 127, 483-496.	2.7	12
20	Does carbon storage confer waterlogging tolerance? Evidence from four evergreen species of a temperate rainforest. <i>Australian Journal of Botany</i> , 2018, 66, 74.	0.6	6
21	Carbon allocation to growth and storage in two evergreen species of contrasting successional status. <i>American Journal of Botany</i> , 2017, 104, 654-662.	1.7	9
22	Problems with bioclimatic definitions of vegetation types. <i>New Zealand Journal of Botany</i> , 2017, 55, 373-377.	1.1	2
23	Single-provenance mature conifers show higher non-structural carbohydrate storage and reduced growth in a drier location. <i>Tree Physiology</i> , 2017, 37, 1001-1010.	3.1	60
24	An assessment of carbon and nutrient limitations in the formation of the southern Andes tree line. <i>Journal of Ecology</i> , 2017, 105, 517-527.	4.0	30
25	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017, 1, 1285-1291.	7.8	739
26	Dynamics of non-structural carbohydrates in terrestrial plants: a global synthesis. <i>Ecological Monographs</i> , 2016, 86, 495-516.	5.4	458
27	Carbon dynamics of <i>Acer pseudoplatanus</i> seedlings under drought and complete darkness. <i>Tree Physiology</i> , 2016, 36, 1400-1408.	3.1	35
28	Mediterranean and temperate treelines are controlled by different environmental drivers. <i>Journal of Ecology</i> , 2016, 104, 691-702.	4.0	40
29	Wind exposure and light exposure, more than elevation-related temperature, limit tree line seedling abundance on three continents. <i>Journal of Ecology</i> , 2016, 104, 1379-1390.	4.0	44
30	Extreme defoliation reduces tree growth but not C and N storage in a winter-deciduous species. <i>Annals of Botany</i> , 2015, 115, 1093-1103.	2.9	63
31	High foliar nutrient concentrations and resorption efficiency in <i>Embothrium coccineum</i> (Proteaceae) in southern Chile. <i>American Journal of Botany</i> , 2015, 102, 208-216.	1.7	19
32	Patterns of carbon storage in relation to shade tolerance in southern South American species. <i>American Journal of Botany</i> , 2015, 102, 1442-1452.	1.7	13
33	Non-structural carbohydrates in woody plants compared among laboratories. <i>Tree Physiology</i> , 2015, 35, tppv073.	3.1	163
34	An experimental approach to explain the southern Andes elevational treeline. <i>American Journal of Botany</i> , 2014, 101, 788-795.	1.7	37
35	Foliar habit, tolerance to defoliation and their link to carbon and nitrogen storage. <i>Journal of Ecology</i> , 2014, 102, 1101-1111.	4.0	91
36	Simulated warming does not impair seedling survival and growth of <i>Nothofagus pumilio</i> in the southern Andes. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 97-105.	2.7	28

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37	Disturbance regimes, gap-demanding trees and seed mass related to tree height in warm temperate rain forests worldwide. <i>Biological Reviews</i> , 2013, 88, 701-744.	10.4	48
38	Soil nitrogen, and not phosphorus, promotes cluster-root formation in a South American Proteaceae, <i>Embothrium coccineum</i> . <i>American Journal of Botany</i> , 2013, 100, 2328-2338.	1.7	22
39	Similar variation in carbon storage between deciduous and evergreen treeline species across elevational gradients. <i>Annals of Botany</i> , 2013, 112, 623-631.	2.9	55
40	Variation of mobile carbon reserves in trees at the alpine treeline ecotone is under environmental control. <i>New Phytologist</i> , 2012, 195, 794-802.	7.3	58
41	Intraspecific variation in drought resistance of <i>Nothofagus antarctica</i> (G. Forst.) Oerst. ( <i>Nothofagaceae</i> ). <i>Gayana - Botanica</i> , 2012, 69, 365-368.	0.2	1
42	Dams and afforestation plans in Chilean Patagonia. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 96-96.	4.0	0
43	Distinguishing local from global climate influences in the variation of carbon status with altitude in a tree line species. <i>Global Ecology and Biogeography</i> , 2011, 20, 307-318.	5.8	45
44	Intraspecific trait variation and covariation in a widespread tree species ( <i>Nothofagus pumilio</i> ) in southern Chile. <i>New Phytologist</i> , 2011, 189, 259-271.	7.3	147
45	Drought induces opposite changes in the concentration of non-structural carbohydrates of two evergreen <i>Nothofagus</i> species of differential drought resistance. <i>Annals of Forest Science</i> , 2011, 68, 415-424.	2.0	86
46	Ontogeny, understorey light interception and simulated carbon gain of juvenile rainforest evergreens differing in shade tolerance. <i>Annals of Botany</i> , 2011, 108, 419-428.	2.9	38
47	No evidence of carbon limitation with tree age and height in <i>Nothofagus pumilio</i> under Mediterranean and temperate climate conditions. <i>Annals of Botany</i> , 2011, 108, 907-917.	2.9	31
48	Gas exchange of juvenile and mature trees of <i>Alnus jorullensis</i> ( <i>Betulaceae</i> ) at sites with contrasting humidity in the Venezuelan Andes. <i>Ecological Research</i> , 2010, 25, 51-58.	1.5	5
49	Physiological mechanisms of drought-induced tree mortality are far from being resolved. <i>New Phytologist</i> , 2010, 186, 274-281.	7.3	535
50	Carbohydrate storage, survival, and growth of two evergreen <i>Nothofagus</i> species in two contrasting light environments. <i>Ecological Research</i> , 2009, 24, 1233-1241.	1.5	63
51	Responses of two temperate evergreen <i>Nothofagus</i> species to sudden and gradual waterlogging: relationships with distribution patterns. <i>Revista Chilena De Historia Natural</i> , 2008, 81, .	1.2	5
52	Seedling size influences relationships of shade tolerance with carbohydrate-storage patterns in a temperate rainforest. <i>Functional Ecology</i> , 2007, 21, 78.	3.6	38
53	Differential photosynthetic and survival responses to soil drought in two evergreen <i>Nothofagus</i> species. <i>Annals of Forest Science</i> , 2007, 64, 447-452.	2.0	46
54	Carbon sink limitation and frost tolerance control performance of the tree <i>Kageneckia angustifolia</i> D. Don ( <i>Rosaceae</i> ) at the treeline in central Chile. <i>Plant Ecology</i> , 2006, 185, 29-39.	1.6	75

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55	Solid shelter tubes alleviate summer stresses during outplanting in drought-tolerant species of Mediterranean forests. <i>New Forests</i> , 0, , 1.	1.7	1
56	Elevational variation of the seasonal dynamic of carbohydrate reserves in an alpine plant of Mediterranean mountains. <i>Alpine Botany</i> , 0, , 1.	2.4	3