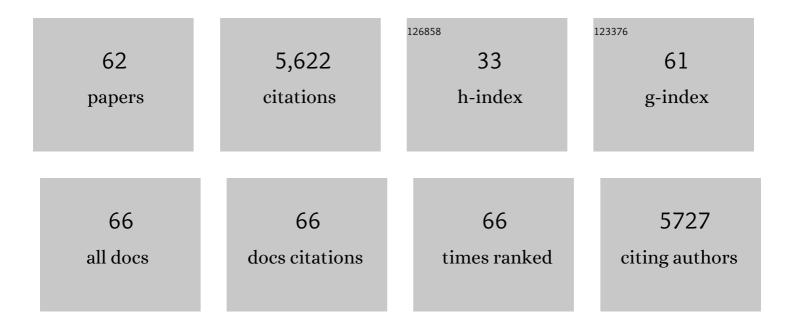
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Global convergence in the vulnerability of forests to drought. Nature, 2012, 491, 752-755.	13.7	1,944
2	Do Xylem Fibers Affect Vessel Cavitation Resistance?. Plant Physiology, 2005, 139, 546-556.	2.3	351
3	Relationships among xylem transport, biomechanics and storage in stems and roots of nine Rhamnaceae species of the California chaparral. New Phytologist, 2007, 174, 787-798.	3.5	297
4	CAVITATION RESISTANCE AMONG 26 CHAPARRAL SPECIES OF SOUTHERN CALIFORNIA. Ecological Monographs, 2007, 77, 99-115.	2.4	219
5	Towards understanding resprouting at the global scale. New Phytologist, 2016, 209, 945-954.	3.5	197
6	Xylem density, biomechanics and anatomical traits correlate with water stress in 17 evergreen shrub species of the Mediterranean-type climate region of South Africa. Journal of Ecology, 2007, 95, 171-183.	1.9	176
7	Conflicting demands on angiosperm xylem: Tradeoffs among storage, transport and biomechanics. Plant, Cell and Environment, 2017, 40, 897-913.	2.8	135
8	Cavitation resistance and seasonal hydraulics differ among three arid Californian plant communities. Plant, Cell and Environment, 2007, 30, 1599-1609.	2.8	118
9	Mortality of resprouting chaparral shrubs after a fire and during a record drought: physiological mechanisms and demographic consequences. Global Change Biology, 2014, 20, 893-907.	4.2	115
10	A global analysis of xylem vessel length in woody plants. American Journal of Botany, 2012, 99, 1583-1591.	0.8	109
11	Forest and woodland replacement patterns following drought-related mortality. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29720-29729.	3.3	99
12	Linkage between water stress tolerance and life history type in seedlings of nine chaparral species (Rhamnaceae). Journal of Ecology, 2008, 96, 1252-1265.	1.9	92
13	Comparative community physiology: nonconvergence in water relations among three semiâ€arid shrub communities. New Phytologist, 2008, 180, 100-113.	3.5	91
14	No evidence for an open vessel effect in centrifugeâ€based vulnerability curves of a longâ€vesselled liana ( <i>Vitis vinifera</i> ). New Phytologist, 2012, 194, 982-990.	3.5	91
15	The standard centrifuge method accurately measures vulnerability curves of longâ€vesselled olive stems. New Phytologist, 2015, 205, 116-127.	3.5	89
16	Chaparral Shrub Hydraulic Traits, Size, and Life History Types Relate to Species Mortality during California's Historic Drought of 2014. PLoS ONE, 2016, 11, e0159145.	1.1	83
17	LIFE HISTORY TYPE AND WATER STRESS TOLERANCE IN NINE CALIFORNIA CHAPARRAL SPECIES (RHAMNACEAE). Ecological Monographs, 2007, 77, 239-253.	2.4	80
18	Xylem function of aridâ€land shrubs from California, USA: an ecological and evolutionary analysis. Plant, Cell and Environment, 2009, 32, 1324-1333.	2.8	75

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19	Excising stem samples underwater at native tension does not induce xylem cavitation. Plant, Cell and Environment, 2015, 38, 1060-1068.	2.8	71
20	Red light activates a chloroplastâ€dependent ion uptake mechanism for stomatal opening under reduced CO 2 concentrations in Vicia spp New Phytologist, 2002, 153, 497-508.	3.5	62
21	Extensive droughtâ€associated plant mortality as an agent of typeâ€conversion in chaparral shrublands. New Phytologist, 2018, 219, 498-504.	3.5	61
22	Xylem root and shoot hydraulics is linked to life history type in chaparral seedlings. Functional Ecology, 2010, 24, 70-81.	1.7	54
23	Large volume vessels are vulnerable to water-stress-induced embolism in stems of poplar. IAWA Journal, 2019, 40, 4-S4.	2.7	49
24	Xylem vulnerability to cavitation can be accurately characterised in species with long vessels using a centrifuge method. Plant Biology, 2013, 15, 496-504.	1.8	47
25	The Biology of Mediterranean-Type Ecosystems. , 2018, , .		46
26	Functional lifespans of xylem vessels: Development, hydraulic function, and postâ€function of vessels in several species of woody plants. American Journal of Botany, 2018, 105, 142-150.	0.8	44
27	Wood structure and function change with maturity: Age of the vascular cambium is associated with xylem changes in currentâ€year growth. Plant, Cell and Environment, 2019, 42, 1816-1831.	2.8	44
28	Direct comparison of four methods to construct xylem vulnerability curves: Differences among techniques are linked to vessel network characteristics. Plant, Cell and Environment, 2019, 42, 2422-2436.	2.8	44
29	Mechanisms for tolerating freeze–thaw stress of two evergreen chaparral species: <i>Rhus ovata</i> and <i>Malosma laurina</i> (Anacardiaceae). American Journal of Botany, 2005, 92, 1102-1113.	0.8	42
30	Identifying which conduits are moving water in woody plants: a new HRCT-based method. Tree Physiology, 2018, 38, 1200-1212.	1.4	40
31	Factors Determining Mortality of Adult Chaparral Shrubs in an Extreme Drought Year in California. Aliso, 2013, 31, 49-57.	0.4	39
32	Water stress tolerance of shrubs in Mediterraneanâ€ŧype climate regions: Convergence of fynbos and succulent karoo communities with California shrub communities. American Journal of Botany, 2009, 96, 1445-1453.	0.8	38
33	Geographic And Seasonal Variation In Chaparral Vulnerability To Cavitation. Madroño, 2014, 61, 317-327.	0.3	38
34	Do Invasive Trees have a Hydraulic Advantage over Native Trees?. Biological Invasions, 2006, 8, 1331-1341.	1.2	35
35	Structural determinants of increased susceptibility to dehydrationâ€induced cavitation in postâ€fire resprouting chaparral shrubs. Plant, Cell and Environment, 2016, 39, 2473-2485.	2.8	34
36	Exotic deer diminish post-fire resilience of native shrub communities on Santa Catalina Island, southern California. Plant Ecology, 2012, 213, 1037-1047.	0.7	30

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37	Postfire regeneration of resprouting mountain fynbos shrubs: differentiating obligate resprouters and facultative seeders. Plant Ecology, 2014, 215, 195-208.	0.7	30
38	Root resistance to cavitation is accurately measured using a centrifuge technique. Tree Physiology, 2015, 35, 185-196.	1.4	30
39	Single vessel air injection estimates of xylem resistance to cavitation are affected by vessel network characteristics and sample length. Tree Physiology, 2016, 36, 1247-1259.	1.4	28
40	Embolism resistance of different aged stems of a California oak species (Quercus douglasii): optical and microCT methods differ from the benchtop-dehydration standard. Tree Physiology, 2020, 40, 5-18.	1.4	27
41	Allocation tradeoffs among chaparral shrub seedlings with different life history types (Rhamnaceae). American Journal of Botany, 2012, 99, 1464-1476.	0.8	26
42	Trade-offs among transport, support, and storage in xylem from shrubs in a semiarid chaparral environment tested with structural equation modeling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
43	Integrative Xylem Analysis of Chaparral Shrubs. , 2015, , 189-207.		21
44	On research priorities to advance understanding of the safety–efficiency tradeoff in xylem. New Phytologist, 2016, 211, 1156-1158.	3.5	21
45	Highâ€resolution computed tomography reveals dynamics of desiccation and rehydration in fern petioles of a desiccationâ€tolerant fern. New Phytologist, 2019, 224, 97-105.	3.5	19
46	Going with the flow: Structural determinants of vascular tissue transport efficiency and safety. Plant, Cell and Environment, 2018, 41, 2715-2717.	2.8	17
47	Starch storage capacity of sapwood is related to dehydration avoidance during drought. American Journal of Botany, 2021, 108, 91-101.	0.8	15
48	Hydraulic function and conduit structure in the xylem of five oak species. IAWA Journal, 2021, 42, 279-298.	0.5	14
49	Factors controlling drought resistance in grapevine ( <i>Vitis vinifera</i> , chardonnay): application of a new micro <scp>CT</scp> method to assess functional embolism resistance. American Journal of Botany, 2020, 107, 618-627.	0.8	12
50	Dieback and mortality of South African fynbos shrubs is likely driven by a novel pathogen and pathogen and pathogenâ€induced hydraulic failure. Austral Ecology, 2012, 37, 227-235.	0.7	10
51	Vulnerability to cavitation of central California Arctostaphylos (Ericaceae): a new analysis. Oecologia, 2013, 171, 329-334.	0.9	10
52	Plant Community Water Use and Invasibility of Semi-Arid Shrublands by Woody Species in Southern California. Madroño, 2009, 56, 213-220.	0.3	9
53	Covariation between leaf hydraulics and biomechanics is driven by leaf density in Mediterranean shrubs. Trees - Structure and Function, 2019, 33, 507-519.	0.9	9
54	Adaptive variation among oaks in wood anatomical properties is shaped by climate of origin and shows limited plasticity across environments. Functional Ecology, 0, , .	1.7	9

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55	Xylem biomechanics, water storage, and density within roots and shoots of an angiosperm tree species. Journal of Experimental Botany, 2021, 72, 7984-7997.	2.4	8
56	Vegetationâ€ŧype conversion of evergreen chaparral shrublands to savannahs dominated by exotic annual herbs: causes and consequences for ecosystem function. American Journal of Botany, 2022, 109, 9-28.	0.8	7
57	Post-Fire Ecophysiology of Endemic Chaparral Shrub Seedlings From Santa Catalina Island, Southern California. Madroño, 2018, 65, 106-116.	0.3	4
58	Seasonal patterns of increases in stem girth, vessel development, and hydraulic function in deciduous tree species. Annals of Botany, 2022, , .	1.4	4
59	Functional Trait Differences Between Weedy And Non-Weedy Plants In Southern California. Madroño, 2014, 61, 328-338.	0.3	3
60	Node frequency alters stem biomechanics and hydraulics in four deciduous woody species. Journal of Wood Science, 2020, 66, .	0.9	3
61	The effects of invasive grass on seedling recruitment of native Atriplex polycarpa (Torr.) S. Watson (Chenopodiaceae) shrubs in the San Joaquin Valley of California. Biological Invasions, 2019, 21, 1871-1876.	1.2	2
62	A seed–seedling conflict for Atriplex polycarpa shrubs competing with exotic grasses and their residual dry matter. Ecosphere, 2021, 12, e03455.	1.0	1