

Christine Scoffoni

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

5,091
citations

145106

33
h-index

232693

48
g-index

49
all docs

49
docs citations

49
times ranked

4840
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined high leaf hydraulic safety and efficiency provides drought tolerance in <i>Caragana</i> species adapted to low mean annual precipitation. <i>New Phytologist</i> , 2021, 229, 230-244.	3.5	63
2	Deciduous and evergreen oaks show contrasting adaptive responses in leaf mass per area across environments. <i>New Phytologist</i> , 2021, 230, 521-534.	3.5	38
3	Developmental and biophysical determinants of grass leaf size worldwide. <i>Nature</i> , 2021, 592, 242-247.	13.7	43
4	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020, 11, 22-37.	2.2	68
5	Prediction of leaf water potential and relative water content using terahertz radiation spectroscopy. <i>Plant Direct</i> , 2020, 4, e00197.	0.8	33
6	Leaf Venation and Morphology Help Explain Physiological Variation in <i>Yucca brevifolia</i> and <i>Hesperoyucca whipplei</i> Across Microhabitats in the Mojave Desert, CA. <i>Frontiers in Plant Science</i> , 2020, 11, 578338.	1.7	5
7	Coordinated decline of leaf hydraulic and stomatal conductances under drought is not linked to leaf xylem embolism for different grapevine cultivars. <i>Journal of Experimental Botany</i> , 2020, 71, 7286-7300.	2.4	18
8	A stomatal safety-efficiency trade-off constrains responses to leaf dehydration. <i>Nature Communications</i> , 2019, 10, 3398.	5.8	118
9	Thresholds for leaf damage due to dehydration: declines of hydraulic function, stomatal conductance and cellular integrity precede those for photochemistry. <i>New Phytologist</i> , 2019, 223, 134-149.	3.5	112
10	Students as ecologists: Strategies for successful mentorship of undergraduate researchers. <i>Ecology and Evolution</i> , 2019, 9, 4316-4326.	0.8	17
11	Covariation between leaf hydraulics and biomechanics is driven by leaf density in Mediterranean shrubs. <i>Trees - Structure and Function</i> , 2019, 33, 507-519.	0.9	9
12	An extensive suite of functional traits distinguishes Hawaiian wet and dry forests and enables prediction of species vital rates. <i>Functional Ecology</i> , 2019, 33, 712-734.	1.7	37
13	Embracing 3D Complexity in Leaf Carbon-Water Exchange. <i>Trends in Plant Science</i> , 2019, 24, 15-24.	4.3	55
14	The Causes of Leaf Hydraulic Vulnerability and Its Influence on Gas Exchange in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2018, 178, 1584-1601.	2.3	50
15	Evolution of leaf structure and drought tolerance in species of Californian <i>Ceanothus</i> . <i>American Journal of Botany</i> , 2018, 105, 1672-1687.	0.8	20
16	Is xylem of angiosperm leaves less resistant to embolism than branches? Insights from microCT, hydraulics, and anatomy. <i>Journal of Experimental Botany</i> , 2018, 69, 5611-5623.	2.4	46
17	Outside-Xylem Vulnerability, Not Xylem Embolism, Controls Leaf Hydraulic Decline during Dehydration. <i>Plant Physiology</i> , 2017, 173, 1197-1210.	2.3	195
18	The Sites of Evaporation within Leaves. <i>Plant Physiology</i> , 2017, 173, 1763-1782.	2.3	105

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19	The anatomical and compositional basis of leaf mass per area. <i>Ecology Letters</i> , 2017, 20, 412-425.	3.0	139
20	The causes and consequences of leaf hydraulic decline with dehydration. <i>Journal of Experimental Botany</i> , 2017, 68, 4479-4496.	2.4	108
21	Leaf vein xylem conduit diameter influences susceptibility to embolism and hydraulic decline. <i>New Phytologist</i> , 2017, 213, 1076-1092.	3.5	102
22	Why are leaves hydraulically vulnerable?. <i>Journal of Experimental Botany</i> , 2016, 67, 4917-4919.	2.4	22
23	I Can See Clearly Now – Embolism in Leaves. <i>Trends in Plant Science</i> , 2016, 21, 723-725.	4.3	7
24	Hydraulic basis for the evolution of photosynthetic productivity. <i>Nature Plants</i> , 2016, 2, 16072.	4.7	177
25	Resolving Australian analogs for an Eocene Patagonian paleorainforest using leaf size and floristics. <i>American Journal of Botany</i> , 2015, 102, 1160-1173.	0.8	31
26	How Does Leaf Anatomy Influence Water Transport outside the Xylem?. <i>Plant Physiology</i> , 2015, 168, 1616-1635.	2.3	177
27	Are leaves “freewheelin’? Testing for a <i>Wheeler</i> type effect in leaf xylem hydraulic decline. <i>Plant, Cell and Environment</i> , 2015, 38, 534-543.	2.8	36
28	Modelling the outside xylem hydraulic conductance: towards a new understanding of leaf water relations. <i>Plant, Cell and Environment</i> , 2015, 38, 4-6.	2.8	15
29	Light-induced plasticity in leaf hydraulics, venation, anatomy, and gas exchange in ecologically diverse Hawaiian lobeliads. <i>New Phytologist</i> , 2015, 207, 43-58.	3.5	77
30	Leaf mass per area is independent of vein length per area: avoiding pitfalls when modelling phenotypic integration (reply to Blonder et al. 2014). <i>Journal of Experimental Botany</i> , 2014, 65, 5115-5123.	2.4	26
31	Leaf Vein Length per Unit Area Is Not Intrinsically Dependent on Image Magnification: Avoiding Measurement Artifacts for Accuracy and Precision. <i>Plant Physiology</i> , 2014, 166, 829-838.	2.3	43
32	Leaf Shrinkage with Dehydration: Coordination with Hydraulic Vulnerability and Drought Tolerance. <i>Plant Physiology</i> , 2014, 164, 1772-1788.	2.3	175
33	Making the best of the worst of times: traits underlying combined shade and drought tolerance of <i>Ruscus aculeatus</i> and <i>Ruscus microglossum</i> (Asparagaceae). <i>Functional Plant Biology</i> , 2014, 41, 11.	1.1	22
34	Leaf and stem physiological responses to summer and winter extremes of woody species across temperate ecosystems. <i>Oikos</i> , 2014, 123, 1281-1290.	1.2	25
35	Leaf venation: structure, function, development, evolution, ecology and applications in the past, present and future. <i>New Phytologist</i> , 2013, 198, 983-1000.	3.5	573
36	Leaf mesophyll conductance and leaf hydraulic conductance: an introduction to their measurement and coordination. <i>Journal of Experimental Botany</i> , 2013, 64, 3965-3981.	2.4	189

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37	How do leaf veins influence the worldwide leaf economic spectrum? Review and synthesis. <i>Journal of Experimental Botany</i> , 2013, 64, 4053-4080.	2.4	171
38	Allometry of cells and tissues within leaves. <i>American Journal of Botany</i> , 2013, 100, 1936-1948.	0.8	79
39	The Heterogeneity and Spatial Patterning of Structure and Physiology across the Leaf Surface in Giant Leaves of <i>Alocasia macrorrhiza</i> . <i>PLoS ONE</i> , 2013, 8, e66016.	1.1	25
40	Dynamics of leaf hydraulic conductance with water status: quantification and analysis of species differences under steady state. <i>Journal of Experimental Botany</i> , 2012, 63, 643-658.	2.4	110
41	Measurement of Leaf Hydraulic Conductance and Stomatal Conductance and Their Responses to Irradiance and Dehydration Using the Evaporative Flux Method (EFM). <i>Journal of Visualized Experiments</i> , 2012, , .	0.2	45
42	Developmentally based scaling of leaf venation architecture explains global ecological patterns. <i>Nature Communications</i> , 2012, 3, 837.	5.8	255
43	Rapid determination of comparative drought tolerance traits: using an osmometer to predict turgor loss point. <i>Methods in Ecology and Evolution</i> , 2012, 3, 880-888.	2.2	183
44	Combined impacts of irradiance and dehydration on leaf hydraulic conductance: insights into vulnerability and stomatal control. <i>Plant, Cell and Environment</i> , 2012, 35, 857-871.	2.8	106
45	The determinants of leaf turgor loss point and prediction of drought tolerance of species and biomes: a global meta-analysis. <i>Ecology Letters</i> , 2012, 15, 393-405.	3.0	674
46	Decline of Leaf Hydraulic Conductance with Dehydration: Relationship to Leaf Size and Venation Architecture. <i>Plant Physiology</i> , 2011, 156, 832-843.	2.3	318
47	The rapid light response of leaf hydraulic conductance: new evidence from two experimental methods. <i>Plant, Cell and Environment</i> , 2008, 31, 1803-1812.	2.8	112
48	Testing for ion-mediated enhancement of the hydraulic conductance of the leaf xylem in diverse angiosperms. <i>The Journal of Plant Hydraulics</i> , 0, 4, e004.	1.0	4