

Sean M Gleason

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

5,938
citations

172457
29
h-index

168389
53
g-index

62
all docs

62
docs citations

62
times ranked

8172
citing authors

#	ARTICLE	IF	CITATIONS
1	Global convergence in the vulnerability of forests to drought. <i>Nature</i> , 2012, 491, 752-755.	27.8	1,944
2	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
3	Weak tradeoff between xylem safety and xylem-specific hydraulic efficiency across the world's woody plant species. <i>New Phytologist</i> , 2016, 209, 123-136.	7.3	466
4	Balancing the costs of carbon gain and water transport: testing a new theoretical framework for plant functional ecology. <i>Ecology Letters</i> , 2014, 17, 82-91.	6.4	332
5	Bark functional ecology: evidence for tradeoffs, functional coordination, and environment producing bark diversity. <i>New Phytologist</i> , 2014, 201, 486-497.	7.3	159
6	Water productivity under strategic growth stage-based deficit irrigation in maize. <i>Agricultural Water Management</i> , 2019, 212, 433-440.	5.6	122
7	Fibre wall and lumen fractions drive wood density variation across 24 Australian angiosperms. <i>AoB PLANTS</i> , 2013, 5, .	2.3	121
8	Hydraulic traits are coordinated with maximum plant height at the global scale. <i>Science Advances</i> , 2019, 5, eaav1332.	10.3	113
9	Physical dormancy in seeds of <i>Dodonaea viscosa</i> (Sapindales, Sapindaceae) from Hawaii. <i>Seed Science Research</i> , 2004, 14, 81-90.	1.7	105
10	Stem xylem conductivity is key to plant water balance across Australian angiosperm species. <i>Functional Ecology</i> , 2012, 26, 343-352.	3.6	98
11	Toward an index of desiccation time to tree mortality under drought. <i>Plant, Cell and Environment</i> , 2016, 39, 2342-2345.	5.7	83
12	Vessel diameter is related to amount and spatial arrangement of axial parenchyma in woody angiosperms. <i>Plant, Cell and Environment</i> , 2018, 41, 245-260.	5.7	81
13	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021, 8, 254.	5.3	73
14	Tip-to-base xylem conduit widening as an adaptation: causes, consequences, and empirical priorities. <i>New Phytologist</i> , 2021, 229, 1877-1893.	7.3	72
15	Organic Matter Dynamics on the Forest Floor of a Micronesian Mangrove Forest: An Investigation of Species Composition Shifts ¹ . <i>Biotropica</i> , 2002, 34, 190-198.	1.6	71
16	Photosynthesis, carbohydrate storage and survival of a native and an introduced tree species in relation to light and defoliation. <i>Tree Physiology</i> , 2004, 24, 1087-1097.	3.1	64
17	Leaf hydraulic vulnerability to drought is linked to site water availability across a broad range of species and climates. <i>Annals of Botany</i> , 2014, 114, 435-440.	2.9	64
18	Comparison of three crop water stress index models with sap flow measurements in maize. <i>Agricultural Water Management</i> , 2018, 203, 366-375.	5.6	59

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19	Leaf manganese concentrations as a tool to assess belowground plant functioning in phosphorus-impooverished environments. <i>Plant and Soil</i> , 2021, 461, 43-61.	3.7	52
20	Soil redox conditions and plant-soil relationships in a micronesian mangrove forest. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 1065-1074.	2.1	51
21	Vessel scaling in evergreen angiosperm leaves conforms with Murray's law and area-filling assumptions: implications for plant size, leaf size and cold tolerance. <i>New Phytologist</i> , 2018, 218, 1360-1370.	7.3	50
22	Whole-plant capacitance, embolism resistance and slow transpiration rates all contribute to longer desiccation times in woody angiosperms from arid and wet habitats. <i>Tree Physiology</i> , 2014, 34, 275-284.	3.1	49
23	Coordinated decline in photosynthesis and hydraulic conductance during drought stress in <i>Zea mays</i> . <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2017, 227, 1-9.	1.2	49
24	Weak tradeoff between xylem hydraulic efficiency and safety: climatic seasonality matters. <i>New Phytologist</i> , 2021, 229, 1440-1452.	7.3	49
25	Shifts in Leaf and Stem Hydraulic Traits across Aridity Gradients in Eastern Australia. <i>International Journal of Plant Sciences</i> , 2013, 174, 1292-1301.	1.3	43
26	Safety and streamlining of woody shoots in wind: an empirical study across 39 species in tropical Australia. <i>New Phytologist</i> , 2012, 193, 137-149.	7.3	41
27	Embolized Stems Recover Overnight in <i>Zea mays</i> : The Role of Soil Water, Root Pressure, and Nighttime Transpiration. <i>Frontiers in Plant Science</i> , 2017, 8, 662.	3.6	37
28	Growing-season temperature and precipitation are independent drivers of global variation in xylem hydraulic conductivity. <i>Global Change Biology</i> , 2020, 26, 1833-1841.	9.5	36
29	Phosphorus economics of tropical rainforest species and stands across soil contrasts in Queensland, Australia: understanding the effects of soil specialization and trait plasticity. <i>Functional Ecology</i> , 2009, 23, 1157-1166.	3.6	35
30	What do you mean "functional" in ecology? Patterns versus processes. <i>Ecology and Evolution</i> , 2020, 10, 11875-11885.	1.9	32
31	Response of Maize Yield Components to Growth Stage-Based Deficit Irrigation. <i>Agronomy Journal</i> , 2019, 111, 3244-3252.	1.8	30
32	Shoot growth of woody trees and shrubs is predicted by maximum plant height and associated traits. <i>Functional Ecology</i> , 2018, 32, 247-259.	3.6	29
33	The links between leaf hydraulic vulnerability to drought and key aspects of leaf venation and xylem anatomy among 26 Australian woody angiosperms from contrasting climates. <i>Annals of Botany</i> , 2018, 122, 59-67.	2.9	25
34	Stomatal conductance, xylem water transport, and root traits underpin improved performance under drought and well-watered conditions across a diverse panel of maize inbred lines. <i>Field Crops Research</i> , 2019, 234, 119-128.	5.1	24
35	Weak coordination among petiole, leaf, vein, and gas-exchange traits across Australian angiosperm species and its possible implications. <i>Ecology and Evolution</i> , 2016, 6, 267-278.	1.9	23
36	Wood day capacitance is related to water content, wood density, and anatomy across 30 temperate tree species. <i>Plant, Cell and Environment</i> , 2020, 43, 3048-3067.	5.7	23

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37	Cyclone Effects on the Structure and Production of a Tropical Upland Rainforest: Implications for Life-History Tradeoffs. <i>Ecosystems</i> , 2008, 11, 1277-1290.	3.4	21
38	On research priorities to advance understanding of the safety–efficiency tradeoff in xylem. <i>New Phytologist</i> , 2016, 211, 1156-1158.	7.3	21
39	Species–soil associations, disturbance, and nutrient cycling in an Australian tropical rainforest. <i>Oecologia</i> , 2010, 162, 1047-1058.	2.0	18
40	Light requirements of Australian tropical vs. cool-temperate rainforest tree species show different relationships with seedling growth and functional traits. <i>Annals of Botany</i> , 2013, 111, 479-488.	2.9	16
41	Increasing axial parenchyma fraction in the Malagasy Magnoliids facilitated the co-optimisation of hydraulic efficiency and safety. <i>New Phytologist</i> , 2021, 229, 1467-1480.	7.3	16
42	Water transport from stem to stomata: the coordination of hydraulic and gas exchange traits across 33 subtropical woody species. <i>Tree Physiology</i> , 2019, 39, 1665-1674.	3.1	15
43	Printed Organic Electrochemical Transistors for Detecting Nutrients in Whole Plant Sap. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	15
44	Evolutionary outcomes should inform strategies to increase drought tolerance. <i>Nature Plants</i> , 2015, 1, 15114.	9.3	9
45	Growth and grain yield of eight maize hybrids are aligned with water transport, stomatal conductance, and photosynthesis in a semi-arid irrigated system. <i>Physiologia Plantarum</i> , 2021, 172, 1941-1949.	5.2	9
46	A blooming interest in the hydraulic traits of flowers. <i>Plant, Cell and Environment</i> , 2018, 41, 2247-2249.	5.7	8
47	Biomass allocation and phosphorus economics of rain-forest seedlings: effects of fertilization and radiation on soil specialists and soil generalists. <i>Journal of Tropical Ecology</i> , 2011, 27, 147-161.	1.1	7
48	Loss and recovery of leaf hydraulic conductance: Root pressure, embolism, and extra-xylary resistance. <i>The Journal of Plant Hydraulics</i> , 0, 7, .	1.0	6
49	Recovery after deficiency: systemic copper prioritization and partitioning in the leaves and stems of hybrid poplar. <i>Tree Physiology</i> , 2022, 42, 1776-1785.	3.1	6
50	Assessing and Mitigating the Effects of Windblown Soil on Rare and Common Vegetation. <i>Environmental Management</i> , 2007, 40, 1016-1024.	2.7	5
51	Drought-Induced Root Pressure in <i>Sorghum bicolor</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 571072.	3.6	5
52	Physiological trait networks enhance understanding of crop growth and water use in contrasting environments. <i>Plant, Cell and Environment</i> , 2022, 45, 2554-2572.	5.7	5
53	Setbacks to shoot growth are common in woody plants, so how are shoots of some species safer than others?. <i>Ecology</i> , 2012, 93, 1275-1282.	3.2	4
54	Organic Matter Dynamics on the Forest Floor of a Micronesian Mangrove Forest: An Investigation of Species Composition Shifts. <i>Biotropica</i> , 2002, 34, 190.	1.6	1

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55	USDA-ARS Colorado maize growth and development, yield and water-use under strategic timing of irrigation, 2012â€“2013. Data in Brief, 2018, 21, 1227-1231.	1.0	0
56	Simple Background Subtraction of Thermal Imagery for Canopy Temperature Measurement in Greenhouse. Applied Engineering in Agriculture, 2019, 35, 339-344.	0.7	0