Sean M Gleason

List of Publications by Year
in descending order

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	Recovery after deficiency: systemic copper prioritization and partitioning in the leaves and stems of hybrid poplar. Tree Physiology, 2022, 42, 1776-1785.	3.1	6
2	Printed Organic Electrochemical Transistors for Detecting Nutrients in Whole Plant Sap. Advanced Electronic Materials, 2022, 8, .	5.1	15
3	Physiological trait networks enhance understanding of crop growth and water use in contrasting environments. Plant, Cell and Environment, 2022, 45, 2554-2572.	5.7	5
4	Increasing axial parenchyma fraction in the Malagasy Magnoliids facilitated the coâ€optimisation of hydraulic efficiency and safety. New Phytologist, 2021, 229, 1467-1480.	7.3	16
5	Tipâ€toâ€base xylem conduit widening as an adaptation: causes, consequences, and empirical priorities. New Phytologist, 2021, 229, 1877-1893.	7.3	72
6	Weak tradeoff between xylem hydraulic efficiency and safety: climatic seasonality matters. New Phytologist, 2021, 229, 1440-1452.	7.3	49
7	Leaf manganese concentrations as a tool to assess belowground plant functioning in phosphorus-impoverished environments. Plant and Soil, 2021, 461, 43-61.	3.7	52
8	Drought-Induced Root Pressure in Sorghum bicolor. Frontiers in Plant Science, 2021, 12, 571072.	3.6	5
9	Growth and grain yield of eight maize hybrids are aligned with water transport, stomatal conductance, and photosynthesis in a semiâ€arid irrigated system. Physiologia Plantarum, 2021, 172, 1941-1949.	5.2	9
10	AusTraits, a curated plant trait database for the Australian flora. Scientific Data, 2021, 8, 254.	5.3	73
11	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
12	Growingâ€season temperature and precipitation are independent drivers of global variation in xylem hydraulic conductivity. Global Change Biology, 2020, 26, 1833-1841.	9.5	36
13	What do you mean â€œfunctionalâ€in ecology? Patterns versus processes. Ecology and Evolution, 2020, 10, 11875-11885.	1.9	32
14	Wood day capacitance is related to water content, wood density, and anatomy across 30 temperate tree species. Plant, Cell and Environment, 2020, 43, 3048-3067.	5.7	23
15	Water transport from stem to stomata: the coordination of hydraulic and gas exchange traits across 33 subtropical woody species. Tree Physiology, 2019, 39, 1665-1674.	3.1	15
16	Simple Background Subtraction of Thermal Imagery for Canopy Temperature Measurement in Greenhouse. Applied Engineering in Agriculture, 2019, 35, 339-344.	0.7	0
17	Hydraulic traits are coordinated with maximum plant height at the global scale. Science Advances, 2019, 5, eaav1332.	10.3	113
18	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. Field Crops Research, 2019, 234, 119-128.	5.1	24

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19	Response of Maize Yield Components to Growth Stageâ€Based Deficit Irrigation. Agronomy Journal, 2019, 111, 3244-3252.	1.8	30
20	Water productivity under strategic growth stage-based deficit irrigation in maize. Agricultural Water Management, 2019, 212, 433-440.	5.6	122
21	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. Annals of Botany, 2018, 122, 59-67.	2.9	25
22	Vessel scaling in evergreen angiosperm leaves conforms with Murray's law and areaâ€filling assumptions: implications for plant size, leaf size and cold tolerance. New Phytologist, 2018, 218, 1360-1370.	7.3	50
23	Comparison of three crop water stress index models with sap flow measurements in maize. Agricultural Water Management, 2018, 203, 366-375.	5.6	59
24	Vessel diameter is related to amount and spatial arrangement of axial parenchyma in woody angiosperms. Plant, Cell and Environment, 2018, 41, 245-260.	5.7	81
25	Shoot growth of woody trees and shrubs is predicted by maximum plant height and associated traits. Functional Ecology, 2018, 32, 247-259.	3.6	29
26	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
27	A blooming interest in the hydraulic traits of flowers. Plant, Cell and Environment, 2018, 41, 2247-2249.	5.7	8
28	Coordinated decline in photosynthesis and hydraulic conductance during drought stress in Zea mays. Flora: Morphology, Distribution, Functional Ecology of Plants, 2017, 227, 1-9.	1.2	49
29	Embolized Stems Recover Overnight in Zea mays: The Role of Soil Water, Root Pressure, and Nighttime Transpiration. Frontiers in Plant Science, 2017, 8, 662.	3.6	37
30	Weak tradeoff between xylem safety and xylemâ€specific hydraulic efficiency across the world's woody plant species. New Phytologist, 2016, 209, 123-136.	7.3	466
31	Weak coordination among petiole, leaf, vein, and gasâ€exchange traits across Australian angiosperm species and its possible implications. Ecology and Evolution, 2016, 6, 267-278.	1.9	23
32	On research priorities to advance understanding of the safetyâ€“efficiency tradeoff in xylem. New Phytologist, 2016, 211, 1156-1158.	7.3	21
33	Toward an index of desiccation time to tree mortality under drought. Plant, Cell and Environment, 2016, 39, 2342-2345.	5.7	83
34	Evolutionary outcomes should inform strategies to increase drought tolerance. Nature Plants, 2015, 1, 15114.	9.3	9
35	Whole-plant capacitance, embolism resistance and slow transpiration rates all contribute to longer desiccation times in woody angiosperms from arid and wet habitats. Tree Physiology, 2014, 34, 275-284.	3.1	49
36	Bark functional ecology: evidence for tradeoffs, functional coordination, and environment producing bark diversity. New Phytologist, 2014, 201, 486-497.	7.3	159

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37	Balancing the costs of carbon gain and water transport: testing a new theoretical framework for plant functional ecology. Ecology Letters, 2014, 17, 82-91.	6.4	332
38	Leaf hydraulic vulnerability to drought is linked to site water availability across a broad range of species and climates. Annals of Botany, 2014, 114, 435-440.	2.9	64
39	Light requirements of Australian tropical vs. cool-temperate rainforest tree species show different relationships with seedling growth and functional traits. Annals of Botany, 2013, 111, 479-488.	2.9	16
40	Fibre wall and lumen fractions drive wood density variation across 24 Australian angiosperms. AoB PLANTS, 2013, 5, .	2.3	121
41	Shifts in Leaf and Stem Hydraulic Traits across Aridity Gradients in Eastern Australia. International Journal of Plant Sciences, 2013, 174, 1292-1301.	1.3	43
42	Setbacks to shoot growth are common in woody plants, so how are shoots of some species safer than others?. Ecology, 2012, 93, 1275-1282.	3.2	4
43	Global convergence in the vulnerability of forests to drought. Nature, 2012, 491, 752-755.	27.8	1,944
44	Safety and streamlining of woody shoots in wind: an empirical study across 39 species in tropical Australia. New Phytologist, 2012, 193, 137-149.	7.3	41
45	Stem xylem conductivity is key to plant water balance across Australian angiosperm species. Functional Ecology, 2012, 26, 343-352.	3.6	98
46	Biomass allocation and phosphorus economics of rain-forest seedlings: effects of fertilization and radiation on soil specialists and soil generalists. Journal of Tropical Ecology, 2011, 27, 147-161.	1.1	7
47	Speciesâ€“soil associations, disturbance, and nutrient cycling in an Australian tropical rainforest. Oecologia, 2010, 162, 1047-1058.	2.0	18
48	Phosphorus economics of tropical rainforest species and stands across soil contrasts in Queensland, Australia: understanding the effects of soil specialization and trait plasticity. Functional Ecology, 2009, 23, 1157-1166.	3.6	35
49	Cyclone Effects on the Structure and Production of a Tropical Upland Rainforest: Implications for Life-History Tradeoffs. Ecosystems, 2008, 11, 1277-1290.	3.4	21
50	Assessing and Mitigating the Effects of Windblown Soil on Rare and Common Vegetation. Environmental Management, 2007, 40, 1016-1024.	2.7	5
51	Photosynthesis, carbohydrate storage and survival of a native and an introduced tree species in relation to light and defoliation. Tree Physiology, 2004, 24, 1087-1097.	3.1	64
52	Physical dormancy in seeds of Dodonaea viscosa (Sapindales, Sapindaceae) from Hawaii. Seed Science Research, 2004, 14, 81-90.	1.7	105
53	Soil redox conditions and plantâ€“soil relationships in a micronesian mangrove forest. Estuarine, Coastal and Shelf Science, 2003, 56, 1065-1074.	2.1	51
54	Organic Matter Dynamics on the Forest Floor of a Micronesian Mangrove Forest: An Investigation of Species Composition Shifts1. Biotropica, 2002, 34, 190.	1.6	1

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55	Organic Matter Dynamics on the Forest Floor of a Micronesian Mangrove Forest: An Investigation of Species Composition Shifts1. Biotropica, 2002, 34, 190-198.	1.6	71
56	Loss and recovery of leaf hydraulic conductance: Root pressure, embolism, and extra-xylary resistance. The Journal of Plant Hydraulics, 0, 7, .	1.0	6