Samuel H Taylor

List of Publications by Year
in descending order

25 papers	1,490 citations	430874 18 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	2109 citing authors

#	Article	IF	Citations
1	Ecophysiological traits in C₃ and C₄ grasses: a phylogenetically controlled screening experiment. New Phytologist, 2010, 185, 780-791.	7.3	196
2	Slow induction of photosynthesis on shade to sun transitions in wheat may cost at least 21% of productivity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160543.	4.0	172
3	Photosynthetic pathway and ecological adaptation explain stomatal trait diversity amongst grasses. New Phytologist, 2012, 193, 387-396.	7.3	145
4	Partitioning the Components of Relative Growth Rate: How Important Is Plant Size Variation?. American Naturalist, 2010, 176, E152-E161.	2.1	114
5	Drought limitation of photosynthesis differs between C₃ and C₄ grass species in a comparative experiment. Plant, Cell and Environment, 2011, 34, 65-75.	5.7	101
6	Temporal Shift of Circadian-Mediated Gene Expression and Carbon Fixation Contributes to Biomass Heterosis in Maize Hybrids. PLoS Genetics, 2016, 12, e1006197.	3.5	100
7	Physiological advantages of C ₄ grasses in the field: a comparative experiment demonstrating the importance of drought. Global Change Biology, 2014, 20, 1992-2003.	9.5	93
8	Genotypic variation in traits linked to climate and aboveground productivity in a widespread C₄ grass: evidence for a functional trait syndrome. New Phytologist, 2013, 199, 966-980.	7.3	69
9	Into the Shadows and Back into Sunlight: Photosynthesis in Fluctuating Light. Annual Review of Plant Biology, 2022, 73, 617-648.	18.7	66
10	The genetics of divergence and reproductive isolation between ecotypes of Panicum hallii. New Phytologist, 2015, 205, 402-414.	7.3	65
11	Plant growth rates and seed size: a reâ€evaluation. Ecology, 2012, 93, 1283-1289.	3.2	54
12	Promises and challenges of eco-physiological genomics in the field: tests of drought responses in switchgrass. Plant Physiology, 2016, 172, pp.00545.2016.	4.8	46
13	Developmental and biophysical determinants of grass leaf size worldwide. Nature, 2021, 592, 242-247.	27.8	43
14	QTLs for Biomass and Developmental Traits in Switchgrass (Panicum virgatum). Bioenergy Research, 2015, 8, 1856-1867.	3.9	30
15	Faster than expected Rubisco deactivation in shade reduces cowpea photosynthetic potential in variable light conditions. Nature Plants, 2022, 8, 118-124.	9.3	24
16	Patterns in aphid honeydew production parallel diurnal shifts in phloem sap composition. Entomologia Experimentalis Et Applicata, 2012, 142, 121-129.	1.4	22
17	Life history is a key factor explaining functional trait diversity among subtropical grasses, and its influence differs between C3 and C4 species. Journal of Experimental Botany, 2019, 70, 1567-1580.	4.8	22
18	A reporting format for leaf-level gas exchange data and metadata. Ecological Informatics, 2021, 61, 101232.	5.2	22

#	Article	IF	Citations
19	CO2 availability influences hydraulic function of C3 and C4 grass leaves. Journal of Experimental Botany, 2018, 69, 2731-2741.	4.8	21
20	Whole plant chamber to examine sensitivity of cereal gas exchange to changes in evaporative demand. Plant Methods, 2018, 14, 97.	4.3	21
21	During photosynthetic induction, biochemical and stomatal limitations differ between Brassica crops. Plant, Cell and Environment, 2020, 43, 2623-2636.	5.7	21
22	Phenotyping photosynthesis on the limit â€“ a critical examination of RACiR. New Phytologist, 2019, 221, 621-624.	7.3	16
23	QTL and Drought Effects on Leaf Physiology in Lowland Panicum virgatum. Bioenergy Research, 2016, 9, 1241-1259.	3.9	12
24	Phenotypic variation in photosynthetic traits in wheat grown under field versus glasshouse conditions. Journal of Experimental Botany, 2022, 73, 3221-3237.	4.8	9
25	Minimal loss of genetic diversity and no inbreeding depression in blueflag iris (Iris versicolor) on islands in the Bay of Fundy. Botany, 2016, 94, 543-554.	1.0	6