Paul R H Robson

List of Publications by Citations

41 papers	1,392 citations	18 h-index	37 g-index
42 ext. papers	1,673 ext. citations	5.5 avg, IF	4.43 L-index

#	Paper	IF	Citations
41	Food vs. fuel: the use of land for lignocellulosic 'next generation' energy crops that minimize competition with primary food production. *GCB Bioenergy*, **2012**, 4, 1-19	5.6	196
40	Transgene-mediated auxin overproduction in Arabidopsis: hypocotyl elongation phenotype and interactions with the hy6-1 hypocotyl elongation and axr1 auxin-resistant mutants. *Plant Molecular Biology*, **1995**, 27, 1071-83	4.6	138
39	Environmental costs and benefits of growing for bioenergy in the UK. *GCB Bioenergy*, **2017**, 9, 489-507	5.6	131
38	Progress in upscaling Miscanthus biomass production for the European bio-economy with seed-based hybrids. *GCB Bioenergy*, **2017**, 9, 6-17	5.6	102
37	Genome-wide association studies and prediction of 17 traits related to phenology, biomass and cell wall composition in the energy grass Miscanthus sinensis. *New Phytologist*, **2014**, 201, 1227-1239	9.8	80
36	The impact of soil salinity on the yield, composition and physiology of the bioenergy grass Miscanthus × giganteus. *GCB Bioenergy*, **2017**, 9, 92-104	5.6	70
35	Breeding progress and preparedness for mass-scale deployment of perennial lignocellulosic biomass crops switchgrass, miscanthus, willow and poplar. *GCB Bioenergy*, **2019**, 11, 118-151	5.6	68
34	Land use change from C3 grassland to C4 Miscanthus: effects on soil carbon content and estimated mitigation benefit after six years. *GCB Bioenergy*, **2014**, 6, 360-370	5.6	67
33	Accelerating the domestication of a bioenergy crop: identifying and modelling morphological targets for sustainable yield increase in Miscanthus. *Journal of Experimental Botany*, **2013**, 64, 4143-55	7	57
32	Physiological and growth responses to water deficit in the bioenergy crop Miscanthus x giganteus. *Frontiers in Plant Science*, **2013**, 4, 468	6.2	57
31	Phenotypic Variation in Senescence in Miscanthus: Towards Optimising Biomass Quality and Quantity. *Bioenergy Research*, **2012**, 5, 95-105	3.1	54
30	Flowering induction in the bioenergy grass Miscanthus sacchariflorus is a quantitative short-day response, whilst delayed flowering under long days increases biomass accumulation. *Journal of Experimental Botany*, **2013**, 64, 541-52	7	41
29	Variation in canopy duration in the perennial biofuel crop Miscanthus reveals complex associations with yield. *Journal of Experimental Botany*, **2013**, 64, 2373-83	7	32
28	Thermal requirements for seed germination in Miscanthus compared with Switchgrass (Panicum virgatum), Reed canary grass (Phalaris arundinaceae), Maize (Zea mays) and perennial ryegrass (Lolium perenne). *GCB Bioenergy*, **2011**, 3, 375-386	5.6	27
27	Bioinformatics in the orphan crops. *Briefings in Bioinformatics*, **2009**, 10, 645-53	13.4	27
26	Contrasting geographic patterns of genetic variation for molecular markers vs. phenotypic traits in the energy grass Miscanthus sinensis. *GCB Bioenergy*, **2013**, 5, 562-571	5.6	25
25	Genes and gene clusters related to genotype and drought-induced variation in saccharification potential, lignin content and wood anatomical traits in Populus nigra. *Tree Physiology*, **2018**, 38, 320-339	4.2	24

24	Phenomics analysis of drought responses in Miscanthus collected from different geographical locations. *GCB Bioenergy*, **2017**, 9, 78-91	5.6	18
23	Towards combustion quality improvement: the role of flowering and senescence. *GCB Bioenergy*, **2017**, 9, 891-908	5.6	18
22	Novel Miscanthus genotypes selected for different drought tolerance phenotypes show enhanced tolerance across combinations of salinity and drought treatments. *Annals of Botany*, **2019**, 124, 653-674	4.1	16
21	Review: Improving the Impact of Plant Science on Urban Planning and Design. *Buildings*, **2016**, 6, 48	3.2	16
20	Characterization of phenology, physiology, morphology and biomass traits across a broad Euro-Mediterranean ecotypic panel of the lignocellulosic feedstock Arundo donax. *GCB Bioenergy*, **2019**, 11, 152-170	5.6	16
19	Assessing seed priming, sowing date, and mulch film to improve the germination and survival of direct-sown in the United Kingdom. *GCB Bioenergy*, **2018**, 10, 612-627	5.6	15
18	Can the optimisation of pop-up agriculture in remote communities help feed the world?. *Global Food Security*, **2018**, 18, 35-43	8.3	15
17	Breeding Strategies to Improve Miscanthus as a Sustainable Source of Biomass for Bioenergy and Biorenewable Products. *Agronomy*, **2019**, 9, 673	3.6	14
16	Genetic relationships between spring emergence, canopy phenology, and biomass yield increase the accuracy of genomic prediction in Miscanthus. *Journal of Experimental Botany*, **2017**, 68, 5093-5102	7	9
15	Screening for potential co-products in a Miscanthus sinensis mapping family by liquid chromatography with mass spectrometry detection. *Phytochemistry*, **2014**, 105, 186-96	4	8
14	Measured and modelled effect of land-use change from temperate grassland to on soil carbon stocks after 12 years. *GCB Bioenergy*, **2019**, 11, 1173-1186	5.6	7
13	Controlled comparisons between soil and hydroponic systems reveal increased water use efficiency and higher lycopene and β-carotene contents in hydroponically grown tomatoes. *Scientia Horticulturae*, **2021**, 279, 109896	4.1	7
12	Genomic index selection provides a pragmatic framework for setting and refining multi-objective breeding targets in Miscanthus. *Annals of Botany*, **2019**, 124, 521-530	4.1	7
11	Breeding Miscanthus for Bioenergy **2013**, 67-81		6
10	Wild Miscanthus Germplasm in a Drought-Affected Area: Physiology and Agronomy Appraisals. *Agronomy*, **2020**, 10, 679	3.6	5
9	Using -NN to analyse images of diverse germination phenotypes and detect single seed germination in. *Plant Methods*, **2018**, 14, 5	5.8	5
8	Morphological and Physiological Traits that Explain Yield Response to Drought Stress in Miscanthus. *Agronomy*, **2020**, 10, 1194	3.6	5
7	The Effects of Moderate and Severe Salinity on Composition and Physiology in the Biomass Crop. *Plants*, **2020**, 9,	4.5	3

6	Using a Taguchi DOE to investigate factors and interactions affecting germination in Miscanthus sinensis. *Scientific Reports*, **2020**, 10, 1602	4.9	2
5	Stem growth characteristics of high yielding correlate with yield, development and intraspecific competition within plots. *GCB Bioenergy*, **2019**, 11, 1075-1085	5.6	2
4	Allelopathic and intraspecific growth competition effects establishment of direct sown. *GCB Bioenergy*, **2020**, 12, 396-409	5.6	1
3	Linkage mapping evidence for a syntenic QTL associated with flowering time in perennial C rhizomatous grasses and switchgrass. *GCB Bioenergy*, **2021**, 13, 98-111	5.6	1
2	Seasonal Dynamics of Dry Matter Accumulation and Nutrients in a Mature Miscanthus □giganteus Stand in the Lower Silesia Region of Poland. *Agronomy*, **2021**, 11, 1679	3.6	0
1	A flexible quantitative methodology for the analysis of gene-flow between conventionally bred maize populations using microsatellite markers. *Theoretical and Applied Genetics*, **2011**, 122, 819-29	6	