John Foulkes

List of Publications by Year
in descending order

49 papers	5,122 citations	147726 31 h-index	206029 48 g-index
53 all docs	53 docs citations	53 times ranked	4644 citing authors

#	Article	IF	Citations
1	Xâ€ray CT reveals 4D root system development and lateral root responses to nitrate in soil. The Plant Phenome Journal, 2022, 5, .	1.0	13
2	Multi-trait genomic prediction using in-season physiological parameters increases prediction accuracy of complex traits in US wheat. BMC Genomics, 2022, 23, 298.	1.2	10
3	Prediction of Photosynthetic, Biophysical, and Biochemical Traits in Wheat Canopies to Reduce the Phenotyping Bottleneck. Frontiers in Plant Science, 2022, 13, 828451.	1.7	4
4	Identifying variation for N-use efficiency and associated traits in amphidiploids derived from hybrids of bread wheat and the genera Aegilops, Secale, Thinopyrum and Triticum. PLoS ONE, 2022, 17, e0266924.	1.1	4
5	A wiring diagram to integrate physiological traits of wheat yield potential. Nature Food, 2022, 3, 318-324.	6.2	27
6	Exploring genetic diversity for grain partitioning traits to enhance yield in a high biomass spring wheat panel. Field Crops Research, 2021, 260, 107979.	2.3	13
7	Identifying quantitative trait loci for lodgingâ€associated traits in the wheat doubledâ€haploid population Avalon Ã— Cadenza. Crop Science, 2021, 61, 2371-2386.	0.8	14
8	Field-based remote sensing models predict radiation use efficiency in wheat. Journal of Experimental Botany, 2021, 72, 3756-3773.	2.4	11
9	Addressing Research Bottlenecks to Crop Productivity. Trends in Plant Science, 2021, 26, 607-630.	4.3	76
10	Estimating Organ Contribution to Grain Filling and Potential for Source Upregulation in Wheat Cultivars with a Contrasting Sourceâ€"Sink Balance. Agronomy, 2020, 10, 1527.	1.3	22
11	Identification of Wheat Cultivars for Low Nitrogen Tolerance Using Multivariable Screening Approaches. Agronomy, 2020, 10, 417.	1.3	18
12	Optimizing dry-matter partitioning for increased spike growth, grain number and harvest index in spring wheat. Field Crops Research, 2019, 240, 154-167.	2.3	82
13	Suboptimal Acclimation of Photosynthesis to Light in Wheat Canopies. Plant Physiology, 2018, 176, 1233-1246.	2.3	67
14	Wheat lines exhibiting variation in tolerance of Septoria tritici blotch differentiated by grain source limitation. Field Crops Research, 2018, 217, 1-10.	2.3	12
15	Linear discriminant analysis reveals differences in root architecture in wheat seedlings related to nitrogen uptake efficiency. Journal of Experimental Botany, 2017, 68, 4969-4981.	2.4	26
16	Identification of novel quantitative trait loci for resistance to Fusarium seedling blight caused by Microdochium majus and M. nivale in wheat. Field Crops Research, 2016, 191, 1-12.	2.3	4
17	Leaf photosynthesis and associations with grain yield, biomass and nitrogen-use efficiency in landraces, synthetic-derived lines and cultivars in wheat. Field Crops Research, 2016, 193, 1-15.	2.3	128
18	Relationships between Î´13 C, Î´18 O and grain yield in bread wheat genotypes under favourable irrigated and rain-fed conditions. Field Crops Research, 2016, 196, 237-250.	2.3	16

#	Article	IF	Citations
19	Breeding for increased nitrogenâ€use efficiency: a review for wheat (<i><scp>T</scp>.Âaestivum) Tj ETQq1 1 0.784314 rgBT /Overlo	1.0	164
20	Early root and aboveground biomass development of hybrid poplars (<i>Populus</i>spp.) under drought conditions. Canadian Journal of Forest Research, 2015, 45, 1289-1298.	0.8	11
21	The Physiological Basis of the Genetic Progress in Yield Potential of CIMMYT Spring Wheat Cultivars from 1966 to 2009. Crop Science, 2015, 55, 1749-1764.	0.8	165
22	Phenotyping pipeline reveals major seedling root growth QTL in hexaploid wheat. Journal of Experimental Botany, 2015, 66, 2283-2292.	2.4	196
23	High-Resolution Three-Dimensional Structural Data Quantify the Impact of Photoinhibition on Long-Term Carbon Gain in Wheat Canopies in the Field. Plant Physiology, 2015, 169, 1192-1204.	2.3	61
24	Quantifying relationships between rooting traits and water uptake under drought in Mediterranean barley and durum wheat. Journal of Integrative Plant Biology, 2014, 56, 455-469.	4.1	53
25	Nitrogen partitioning and remobilization in relation to leaf senescence, grain yield and grain nitrogen concentration in wheat cultivars. Field Crops Research, 2014, 155, 213-223.	2.3	244
26	Relationships between physiological traits, grain number and yield potential in a wheat DH population of large spike phenotype. Field Crops Research, 2014, 164, 126-135.	2.3	27
27	Identifying wheat genomic regions for improving grain protein concentration independently of grain yield using multiple inter-related populations. Molecular Breeding, 2013, 31, 587-599.	1.0	49
28	Foliar pathogenesis and plant water relations: a review. Journal of Experimental Botany, 2012, 63, 4321-4331.	2.4	100
29	Tackling Drought Stress: RECEPTOR-LIKE KINASES Present New Approaches. Plant Cell, 2012, 24, 2262-2278.	3.1	155
30	Acclimation of Leaf Nitrogen to Vertical Light Gradient at Anthesis in Wheat Is a Whole-Plant Process That Scales with the Size of the Canopy Â Â. Plant Physiology, 2012, 160, 1479-1490.	2.3	54
31	Identification of Differentially Senescing Mutants of Wheat and Impacts on Yield, Biomass and Nitrogen Partitioning^F. Journal of Integrative Plant Biology, 2012, 54, 555-566.	4.1	81
32	Achieving yield gains in wheat. Plant, Cell and Environment, 2012, 35, 1799-1823.	2.8	459
33	Quantifying how winter wheat crops accumulate and use nitrogen reserves during growth. Field Crops Research, 2012, 126, 104-118.	2.3	102
34	Simulation of environmental and genotypic variations of final leaf number and anthesis date for wheat. European Journal of Agronomy, 2012, 42, 22-33.	1.9	56
35	Raising yield potential of wheat. III. Optimizing partitioning to grain while maintaining lodging resistance. Journal of Experimental Botany, 2011, 62, 469-486.	2.4	474
36	Identification of traits to improve the nitrogen-use efficiency of wheat genotypes. Field Crops Research, 2011, 123, 139-152.	2.3	243

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37	Anthesis date mainly explained correlations between post-anthesis leaf senescence, grain yield, and grain protein concentration in a winter wheat population segregating for flowering time QTLs. Journal of Experimental Botany, 2011, 62, 3621-3636.	2.4	193
38	An analysis of dormancy, ABA responsiveness, after-ripening and pre-harvest sprouting in hexaploid wheat (Triticum aestivum L.) caryopses. Journal of Experimental Botany, 2010, 61, 597-607.	2.4	75
39	Relationships between Largeâ€Spike Phenotype, Grain Number, and Yield Potential in Spring Wheat. Crop Science, 2009, 49, 961-973.	0.8	76
40	Raising yield potential in wheat. Journal of Experimental Botany, 2009, 60, 1899-1918.	2.4	508
41	Identifying traits to improve the nitrogen economy of wheat: Recent advances and future prospects. Field Crops Research, 2009, 114, 329-342.	2.3	316
42	Genetic Improvement of Grain Crops. , 2009, , 355-385.		26
43	Effects of drought and the presence of the 1BL/1RS translocation on grain vitreosity, hardness and protein content in winter wheat. Journal of Cereal Science, 2008, 47, 457-468.	1.8	50
44	Is barley yield in the UK sink limited?. Field Crops Research, 2007, 101, 212-220.	2.3	59
45	Is barley yield in the UK sink limited?. Field Crops Research, 2007, 101, 198-211.	2.3	89
46	Dissecting geneÂÃ—Âenvironmental effects on wheat yields via QTL and physiological analysis. Euphytica, 2007, 154, 401-408.	0.6	125
47	Integrating genetic information into plant breeding programmes: how will we produce varieties from molecular variation, using bioinformatics?. Annals of Applied Biology, 2005, 146, 223-237.	1.3	17
48	Effects of a photoperiod-response gene Ppd-D1 on yield potential and drought resistance in UK winter wheat. Euphytica, 2004, 135, 63-73.	0.6	85
49	Modelling Cereal Root Systems for Water and Nitrogen Capture: Towards an Economic Optimum. Annals of Botany, 2003, 91, 383-390.	1.4	213