Philippa Borrill

List of Publications by Year
in descending order

29 papers	6,297 citations	346980 22 h-index	511568 30 g-index
47 all docs	47 docs citations	47 times ranked	6596 citing authors

#	Article	IF	Citations
1	Pathogen-induced biosynthetic pathways encode defense-related molecules in bread wheat. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2123299119.	3.3	30
2	Blurring the boundaries between cereal crops and model plants. New Phytologist, 2020, 228, 1721-1727.	3.5	30
3	A heat-shock inducible system for flexible gene expression in cereals. Plant Methods, 2020, 16, 137.	1.9	5
4	Overgrowth mutants determine the causal role of gibberellin GA2oxidaseA13 in Rht12 dwarfism of wheat. Journal of Experimental Botany, 2020, 71, 7171-7178.	2.4	28
5	Applying genomic resources to accelerate wheat biofortification. Heredity, 2020, 125, 386-395.	1.2	32
6	LYS3 encodes a prolamin-box-binding transcription factor that controls embryo growth in barley and wheat. Journal of Cereal Science, 2020, 93, 102965.	1.8	14
7	A roadmap for gene functional characterisation in crops with large genomes: Lessons from polyploid wheat. ELife, 2020, 9, .	2.8	78
8	Applying the latest advances in genomics and phenomics for trait discovery in polyploid wheat. Plant Journal, 2019, 97, 56-72.	2.8	83
9	Identification of a Dominant Chlorosis Phenotype Through a Forward Screen of the Triticum turgidum cv. Kronos TILLING Population. Frontiers in Plant Science, 2019, 10, 963.	1.7	18
10	A Co-Expression Network in Hexaploid Wheat Reveals Mostly Balanced Expression and Lack of Significant Gene Loss of Homeologous Meiotic Genes Upon Polyploidization. Frontiers in Plant Science, 2019, 10, 1325.	1.7	24
11	Conserved residues in the wheat (Triticum aestivum) NAM-A1 NAC domain are required for protein binding and when mutated lead to delayed peduncle and flag leaf senescence. BMC Plant Biology, 2019, 19, 407.	1.6	19
12	Identification of Transcription Factors Regulating Senescence in Wheat through Gene Regulatory Network Modelling. Plant Physiology, 2019, 180, 1740-1755.	2.3	73
13	Hotspots in the genomic architecture of field drought responses in wheat as breeding targets. Functional and Integrative Genomics, 2019, 19, 295-309.	1.4	40
14	Genome-Wide Transcription During Early Wheat Meiosis Is Independent of Synapsis, Ploidy Level, and the Ph1 Locus. Frontiers in Plant Science, 2018, 9, 1791.	1.7	44
15	Final grain weight is not limited by the activity of key starch-synthesising enzymes during grain filling in wheat. Journal of Experimental Botany, 2018, 69, 5461-5475.	2.4	38
16	The transcriptional landscape of polyploid wheat. Science, 2018, 361, .	6.0	768
17	Shifting the limits in wheat research and breeding using a fully annotated reference genome. Science, 2018, 361, .	6.0	2,424
18	Impact of transposable elements on genome structure and evolution in bread wheat. Genome Biology, 2018, 19, 103.	3.8	226

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19	Uncovering hidden variation in polyploid wheat. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E913-E921.	3.3	554
20	An improved assembly and annotation of the allohexaploid wheat genome identifies complete families of agronomic genes and provides genomic evidence for chromosomal translocations. Genome Research, 2017, 27, 885-896.	2.4	464
21	Genome-Wide Sequence and Expression Analysis of the NAC Transcription Factor Family in Polyploid Wheat. G3: Genes, Genomes, Genetics, 2017, 7, 3019-3029.	0.8	59
22	Systematic Investigation of FLOWERING LOCUS T-Like Poaceae Gene Families Identifies the Short-Day Expressed Flowering Pathway Gene, TaFT3 in Wheat (Triticum aestivum L.). Frontiers in Plant Science, 2016, 7, 857.	1.7	37
23	expVIP: a Customizable RNA-seq Data Analysis and Visualization Platform. Plant Physiology, 2016, 170, 2172-2186.	2.3	403
24	Genomics as the key to unlocking the polyploid potential of wheat. New Phytologist, 2015, 208, 1008-1022.	3.5	151
25	Wheat Grain Filling Is Limited by Grain Filling Capacity rather than the Duration of Flag Leaf Photosynthesis: A Case Study Using NAM RNAi Plants. PLoS ONE, 2015, 10, e0134947.	1.1	73
26	Biofortification of wheat grain with iron and zinc: integrating novel genomic resources and knowledge from model crops. Frontiers in Plant Science, 2014, 5, 53.	1.7	171
27	Arabidopsis plants perform arithmetic division to prevent starvation at night. ELife, 2013, 2, e00669.	2.8	134
28	Multiple Arabidopsis genes primed for recruitment into C₄ photosynthesis. Plant Journal, 2012, 69, 47-56.	2.8	63
29	Chaperonins Facilitate KNOTTED1 Cell-to-Cell Trafficking and Stem Cell Function. Science, 2011, 333, 1141-1144.	6.0	154