Assaf Distelfeld

List of Publications by Year
in descending order

65 papers	11,735 citations	81839 39 h-index	110317 64 g-index
71 all docs	71 docs citations	71 times ranked	8233 citing authors

#	Article	IF	Citations
1	Shifting the limits in wheat research and breeding using a fully annotated reference genome. Science, 2018, 361, .	6.0	2,424
2	A NAC Gene Regulating Senescence Improves Grain Protein, Zinc, and Iron Content in Wheat. Science, 2006, 314, 1298-1301.	6.0	1,408
3	Wild emmer genome architecture and diversity elucidate wheat evolution and domestication. Science, 2017, 357, 93-97.	6.0	781
4	The transcriptional landscape of polyploid wheat. Science, 2018, 361, .	6.0	768
5	A Kinase-START Gene Confers Temperature-Dependent Resistance to Wheat Stripe Rust. Science, 2009, 323, 1357-1360.	6.0	625
6	Durum wheat genome highlights past domestication signatures and future improvement targets. Nature Genetics, 2019, 51, 885-895.	9.4	576
7	Multiple wheat genomes reveal global variation in modern breeding. Nature, 2020, 588, 277-283.	13.7	513
8	Regulation of flowering in temperate cereals. Current Opinion in Plant Biology, 2009, 12, 178-184.	3.5	423
9	A highâ€density, <scp>SNP</scp>â€based consensus map of tetraploid wheat as a bridge to integrate durum and bread wheat genomics and breeding. Plant Biotechnology Journal, 2015, 13, 648-663.	4.1	386
10	Senescence, nutrient remobilization, and yield in wheat and barley. Journal of Experimental Botany, 2014, 65, 3783-3798.	2.4	259
11	Multiple QTL-effects of wheat Gpc-B1 locus on grain protein and micronutrient concentrations. Physiologia Plantarum, 2007, 129, 635-643.	2.6	244
12	High-temperature adult-plant (HTAP) stripe rust resistance gene Yr36 from Triticum turgidum ssp. dicoccoides is closely linked to the grain protein content locus Gpc-B1. Theoretical and Applied Genetics, 2005, 112, 97-105.	1.8	208
13	Cloning of the wheat Yr15 resistance gene sheds light on the plant tandem kinase-pseudokinase family. Nature Communications, 2018, 9, 3735.	5.8	204
14	Precise mapping of a locus affecting grain protein content in durum wheat. Theoretical and Applied Genetics, 2003, 107, 1243-1251.	1.8	170
15	Regulation of Freezing Tolerance and Flowering in Temperate Cereals: The <i>VRN-1</i> Connection Â Â. Plant Physiology, 2010, 153, 1846-1858.	2.3	162
16	Physical map of the wheat highâ€grain protein content gene Gpcâ€B1 and development of a highâ€throughput molecular marker. New Phytologist, 2006, 169, 753-763.	3.5	150
17	Genetic and Molecular Characterization of the<i>VRN2</i>Loci in Tetraploid Wheat Â Â. Plant Physiology, 2009, 149, 245-257.	2.3	129
18	Construction and characterization of a half million clone BAC library of durum wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.8	124

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19	A Metabolic Gene Cluster in the Wheat <i>W1</i> and the Barley <i>Cer-cqu</i> Loci Determines Î²-Diketone Biosynthesis and Glaucousness. Plant Cell, 2016, 28, 1440-1460.	3.1	123
20	Wheat flowering repressor VRN2 and promoter CO2 compete for interactions with NUCLEAR FACTORâ€Y complexes. Plant Journal, 2011, 67, 763-773.	2.8	115
21	Microcolinearity between a 2-cM region encompassing the grain protein content locus Gpc-6B1 on wheat chromosome 6B and a 350-kb region on rice chromosome 2. Functional and Integrative Genomics, 2004, 4, 59-66.	1.4	109
22	Regulation of Zn and Fe transporters by the GPC1gene during early wheat monocarpic senescence. BMC Plant Biology, 2014, 14, 368.	1.6	107
23	Vrn-D4 is a vernalization gene located on the centromeric region of chromosome 5D in hexaploid wheat. Theoretical and Applied Genetics, 2010, 120, 543-552.	1.8	98
24	Ultra-dense genetic map of durum wheatÂÃ—Âwild emmer wheat developed using the 90K iSelect SNP genotyping assay. Molecular Breeding, 2014, 34, 1549-1562.	1.0	86
25	Functional characterization of GPC-1 genes in hexaploid wheat. Planta, 2014, 239, 313-324.	1.6	85
26	Increased copy number at the HvFT1 locus is associated with accelerated flowering time in barley. Molecular Genetics and Genomics, 2013, 288, 261-275.	1.0	83
27	Small RNAs, DNA methylation and transposable elements in wheat. BMC Genomics, 2010, 11, 408.	1.2	82
28	Identification of a novel gene (Hsdr4) involved in water-stress tolerance in wild barley. Plant Molecular Biology, 2007, 64, 17-34.	2.0	80
29	Effect of the down-regulation of the high Grain Protein Content (GPC) genes on the wheat transcriptome during monocarpic senescence. BMC Genomics, 2011, 12, 492.	1.2	75
30	Colinearity between the barley grain protein content (GPC) QTL on chromosome arm 6HS and the wheat Gpc-B1 region. Molecular Breeding, 2008, 22, 25-38.	1.0	70
31	Divergent functions of orthologous NAC transcription factors in wheat and rice. Plant Molecular Biology, 2012, 78, 515-524.	2.0	70
32	Reassessment of the evolution of wheat chromosomes 4A, 5A, and 7B. Theoretical and Applied Genetics, 2018, 131, 2451-2462.	1.8	66
33	Improved Genome Sequence of Wild Emmer Wheat Zavitan with the Aid of Optical Maps. G3: Genes, Genomes, Genetics, 2019, 9, 619-624.	0.8	64
34	SNP-based pool genotyping and haplotype analysis accelerate fine-mapping of the wheat genomic region containing stripe rust resistance gene Yr26. Theoretical and Applied Genetics, 2018, 131, 1481-1496.	1.8	61
35	On the Origin of the Non-brittle Rachis Trait of Domesticated Einkorn Wheat. Frontiers in Plant Science, 2017, 8, 2031.	1.7	58
36	Characterization of the maintained vegetative phase deletions from diploid wheat and their effect on VRN2 and FT transcript levels. Molecular Genetics and Genomics, 2010, 283, 223-232.	1.0	54

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37	Haplotype Analysis of the Pre-harvest Sprouting Resistance Locus Phs-A1 Reveals a Causal Role of TaMKK3-A in Global Germplasm. Frontiers in Plant Science, 2017, 8, 1555.	1.7	50
38	Genome sequences of three <i>Aegilops</i> species of the section Sitopsis reveal phylogenetic relationships and provide resources for wheat improvement. Plant Journal, 2022, 110, 179-192.	2.8	46
39	Introgression of the Aegilops speltoides Su1-Ph1 Suppressor into Wheat. Frontiers in Plant Science, 2017, 8, 2163.	1.7	45
40	Identification and characterization of a novel powdery mildew resistance gene PmG3M derived from wild emmer wheat, Triticum dicoccoides. Theoretical and Applied Genetics, 2012, 124, 911-922.	1.8	44
41	GNI-A1 mediates trade-off between grain number and grain weight in tetraploid wheat. Theoretical and Applied Genetics, 2019, 132, 2353-2365.	1.8	43
42	QTLs for uniform grain dimensions and germination selected during wheat domestication are co-located on chromosome 4B. Theoretical and Applied Genetics, 2016, 129, 1303-1315.	1.8	37
43	Genome Based Meta-QTL Analysis of Grain Weight in Tetraploid Wheat Identifies Rare Alleles of GRF4 Associated with Larger Grains. Genes, 2018, 9, 636.	1.0	37
44	A High-Density Genetic Map of Wild Emmer Wheat from the Karaca DaÄŸ Region Provides New Evidence on the Structure and Evolution of Wheat Chromosomes. Frontiers in Plant Science, 2017, 8, 1798.	1.7	33
45	Structural variation and rates of genome evolution in the grass family seen through comparison of sequences of genomes greatly differing in size. Plant Journal, 2018, 95, 487-503.	2.8	31
46	Acceleration of leaf senescence is slowed down in transgenic barley plants deficient in the DNA/RNA-binding protein WHIRLY1. Journal of Experimental Botany, 2017, 68, 983-996.	2.4	30
47	The Solanum tuberosum KST1 partial promoter as a tool for guard cell expression in multiple plant species. Journal of Experimental Botany, 2017, 68, 2885-2897.	2.4	29
48	Unlocking the Genetic Diversity within A Middle-East Panel of Durum Wheat Landraces for Adaptation to Semi-arid Climate. Agronomy, 2018, 8, 233.	1.3	28
49	Chromosomeâ€based survey sequencing reveals the genome organization of wild wheat progenitor <i>Triticum dicoccoides</i>. Plant Biotechnology Journal, 2018, 16, 2077-2087.	4.1	28
50	Rapid evolution of Î±-gliadin gene family revealed by analyzing Gli-2 locus regions of wild emmer wheat. Functional and Integrative Genomics, 2019, 19, 993-1005.	1.4	28
51	High density mapping and haplotype analysis of the major stem-solidness locus SSt1 in durum and common wheat. PLoS ONE, 2017, 12, e0175285.	1.1	23
52	Wheat domestication in light of haplotype analyses of the Brittle rachis 1 genes (BTR1-A and BTR1-B). Plant Science, 2019, 285, 193-199.	1.7	23
53	A glycosyl transferase family 43 protein involved in xylan biosynthesis is associated with straw digestibility in <i>Brachypodium distachyon</i>. New Phytologist, 2018, 218, 974-985.	3.5	21
54	Wild emmer introgression alters root-to-shoot growth dynamics in durum wheat in response to water stress. Plant Physiology, 2021, 187, 1149-1162.	2.3	21

#	Article	IF	Citations
55	Introgression of leaf rust and stripe rust resistance from Sharon goatgrass (<i>Aegilops) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 7	0.9	18
56	Exploring the metabolic variation between domesticated and wild tetraploid wheat genotypes in response to corn leaf aphid infestation. Plant Signaling and Behavior, 2018, 13, e1486148.	1.2	13
57	Wild emmer wheat as a source for high-grain-protein genes: Map-based cloning of <i>Gpc-B1</i>. Israel Journal of Plant Sciences, 2007, 55, 297-306.	0.3	12
58	The Brittle Rachis Trait in Species Belonging to the Triticeae and Its Controlling Genes Btr1 and Btr2. Frontiers in Plant Science, 2020, 11, 1000.	1.7	12
59	The Independent Domestication of Timopheevâ€™s Wheat: Insights from Haplotype Analysis of the Brittle rachis 1 (BTR1-A) Gene. Genes, 2021, 12, 338.	1.0	11
60	Recombination between homoeologous chromosomes induced in durum wheat by the Aegilops speltoides Su1-Ph1 suppressor. Theoretical and Applied Genetics, 2019, 132, 3265-3276.	1.8	8
61	Genome-Wide Mapping of Loci for Adult-Plant Resistance to Stripe Rust in Durum Wheat Svevo Using the 90K SNP Array. Plant Disease, 2021, 105, 879-888.	0.7	4
62	Barley molybdenum cofactor sulfurase (MCSU): sequencing, modeling, and its comparison to other higher plants. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2015, 39, 786-796.	0.8	3
63	New insights into the dispersion history and adaptive evolution of taxon Aegilops tauschii in China. Journal of Genetics and Genomics, 2021, , .	1.7	3
64	A Time to Sow, a Time to Reap: Modifications to Biological and Economic Rhythms in Southwest Asian Plant and Animal Domestication. Agronomy, 2022, 12, 1368.	1.3	3
65	Functional leaf anatomy of the invasive weed <i>Solanum rostratum</i> Dunal. Weed Research, 2022, 62, 172-180.	0.8	0