

Assaf Distelfeld

List of Publications by Citations

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67
papers

7,484
citations

35
h-index

71
g-index

71
ext. papers

10,275
ext. citations

8.7
avg, IF

5.35
L-index

#	Paper	IF	Citations
67	Shifting the limits in wheat research and breeding using a fully annotated reference genome. <i>Science</i> , 2018 , 361,	33.3	1296
66	A NAC Gene regulating senescence improves grain protein, zinc, and iron content in wheat. <i>Science</i> , 2006 , 314, 1298-301	33.3	1100
65	A kinase-START gene confers temperature-dependent resistance to wheat stripe rust. <i>Science</i> , 2009 , 323, 1357-60	33.3	490
64	Wild emmer genome architecture and diversity elucidate wheat evolution and domestication. <i>Science</i> , 2017 , 357, 93-97	33.3	474
63	The transcriptional landscape of polyploid wheat. <i>Science</i> , 2018 , 361,	33.3	368
62	Regulation of flowering in temperate cereals. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 178-84	9.9	335
61	Durum wheat genome highlights past domestication signatures and future improvement targets. <i>Nature Genetics</i> , 2019 , 51, 885-895	36.3	289
60	Multiple QTL-effects of wheat Gpc-B1 locus on grain protein and micronutrient concentrations. <i>Physiologia Plantarum</i> , 2007 , 129, 635-643	4.6	209
59	A high-density, SNP-based consensus map of tetraploid wheat as a bridge to integrate durum and bread wheat genomics and breeding. <i>Plant Biotechnology Journal</i> , 2015 , 13, 648-63	11.6	196
58	Multiple wheat genomes reveal global variation in modern breeding. <i>Nature</i> , 2020 , 588, 277-283	50.4	180
57	Senescence, nutrient remobilization, and yield in wheat and barley. <i>Journal of Experimental Botany</i> , 2014 , 65, 3783-98	7	177
56	High-temperature adult-plant (HTAP) stripe rust resistance gene Yr36 from <i>Triticum turgidum</i> ssp. <i>dicoccoides</i> is closely linked to the grain protein content locus Gpc-B1. <i>Theoretical and Applied Genetics</i> , 2005 , 112, 97-105	6	173
55	Precise mapping of a locus affecting grain protein content in durum wheat. <i>Theoretical and Applied Genetics</i> , 2003 , 107, 1243-51	6	140
54	Regulation of freezing tolerance and flowering in temperate cereals: the VRN-1 connection. <i>Plant Physiology</i> , 2010 , 153, 1846-58	6.6	125
53	Physical map of the wheat high-grain protein content gene Gpc-B1 and development of a high-throughput molecular marker. <i>New Phytologist</i> , 2006 , 169, 753-63	9.8	122
52	Construction and characterization of a half million clone BAC library of durum wheat (<i>Triticum turgidum</i> ssp. <i>durum</i>). <i>Theoretical and Applied Genetics</i> , 2003 , 107, 931-9	6	119
51	Cloning of the wheat Yr15 resistance gene sheds light on the plant tandem kinase-pseudokinase family. <i>Nature Communications</i> , 2018 , 9, 3735	17.4	108

50	Genetic and molecular characterization of the VRN2 loci in tetraploid wheat. <i>Plant Physiology</i> , 2009 , 149, 245-57	6.6	99
49	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. <i>Functional and Integrative Genomics</i> , 2004 , 4, 59-66	3.8	93
48	A Metabolic Gene Cluster in the Wheat W1 and the Barley Cer-cqu Loci Determines β -Diketone Biosynthesis and Glauconsness. <i>Plant Cell</i> , 2016 , 28, 1440-60	11.6	87
47	Wheat flowering repressor VRN2 and promoter CO2 compete for interactions with NUCLEAR FACTOR-Y complexes. <i>Plant Journal</i> , 2011 , 67, 763-73	6.9	86
46	Regulation of Zn and Fe transporters by the GPC1 gene during early wheat monocarpic senescence. <i>BMC Plant Biology</i> , 2014 , 14, 368	5.3	79
45	Vrn-D4 is a vernalization gene located on the centromeric region of chromosome 5D in hexaploid wheat. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 543-52	6	79
44	Ultra-dense genetic map of durum wheat \times wild emmer wheat developed using the 90K iSelect SNP genotyping assay. <i>Molecular Breeding</i> , 2014 , 34, 1549-1562	3.4	70
43	Small RNAs, DNA methylation and transposable elements in wheat. <i>BMC Genomics</i> , 2010 , 11, 408	4.5	69
42	Effect of the down-regulation of the high Grain Protein Content (GPC) genes on the wheat transcriptome during monocarpic senescence. <i>BMC Genomics</i> , 2011 , 12, 492	4.5	66
41	Identification of a novel gene (Hsdr4) involved in water-stress tolerance in wild barley. <i>Plant Molecular Biology</i> , 2007 , 64, 17-34	4.6	66
40	Increased copy number at the HvFT1 locus is associated with accelerated flowering time in barley. <i>Molecular Genetics and Genomics</i> , 2013 , 288, 261-75	3.1	62
39	Functional characterization of GPC-1 genes in hexaploid wheat. <i>Planta</i> , 2014 , 239, 313-324	4.7	61
38	Divergent functions of orthologous NAC transcription factors in wheat and rice. <i>Plant Molecular Biology</i> , 2012 , 78, 515-24	4.6	59
37	Colinearity between the barley grain protein content (GPC) QTL on chromosome arm 6HS and the wheat Gpc-B1 region. <i>Molecular Breeding</i> , 2008 , 22, 25-38	3.4	57
36	Characterization of the maintained vegetative phase deletions from diploid wheat and their effect on VRN2 and FT transcript levels. <i>Molecular Genetics and Genomics</i> , 2010 , 283, 223-32	3.1	46
35	Reassessment of the evolution of wheat chromosomes 4A, 5A, and 7B. <i>Theoretical and Applied Genetics</i> , 2018 , 131, 2451-2462	6	43
34	Identification and characterization of a novel powdery mildew resistance gene PmG3M derived from wild emmer wheat, <i>Triticum dicoccoides</i> . <i>Theoretical and Applied Genetics</i> , 2012 , 124, 911-22	6	38
33	SNP-based pool genotyping and haplotype analysis accelerate fine-mapping of the wheat genomic region containing stripe rust resistance gene Yr26. <i>Theoretical and Applied Genetics</i> , 2018 , 131, 1481-1496	6	36

32	Haplotype Analysis of the Pre-harvest Sprouting Resistance Locus Reveals a Causal Role of in Global Germplasm. <i>Frontiers in Plant Science</i> , 2017 , 8, 1555	6.2	30
31	On the Origin of the Non-brittle Rachis Trait of Domesticated Einkorn Wheat. <i>Frontiers in Plant Science</i> , 2017 , 8, 2031	6.2	29
30	Improved Genome Sequence of Wild Emmer Wheat Zavitan with the Aid of Optical Maps. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 619-624	3.2	29
29	QTLs for uniform grain dimensions and germination selected during wheat domestication are co-located on chromosome 4B. <i>Theoretical and Applied Genetics</i> , 2016 , 129, 1303-1315	6	27
28	Structural variation and rates of genome evolution in the grass family seen through comparison of sequences of genomes greatly differing in size. <i>Plant Journal</i> , 2018 , 95, 487-503	6.9	24
27	A High-Density Genetic Map of Wild Emmer Wheat from the Karaca Dağ Region Provides New Evidence on the Structure and Evolution of Wheat Chromosomes. <i>Frontiers in Plant Science</i> , 2017 , 8, 1798	6.2	23
26	Genome Based Meta-QTL Analysis of Grain Weight in Tetraploid Wheat Identifies Rare Alleles of GRF4 Associated with Larger Grains. <i>Genes</i> , 2018 , 9,	4.2	21
25	GNI-A1 mediates trade-off between grain number and grain weight in tetraploid wheat. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 2353-2365	6	20
24	Chromosome-based survey sequencing reveals the genome organization of wild wheat progenitor <i>Triticum dicoccoides</i> . <i>Plant Biotechnology Journal</i> , 2018 , 16, 2077-2087	11.6	19
23	The <i>Solanum tuberosum</i> KST1 partial promoter as a tool for guard cell expression in multiple plant species. <i>Journal of Experimental Botany</i> , 2017 , 68, 2885-2897	7	19
22	Acceleration of leaf senescence is slowed down in transgenic barley plants deficient in the DNA/RNA-binding protein WHIRLY1. <i>Journal of Experimental Botany</i> , 2017 , 68, 983-996	7	17
21	Introgression of leaf rust and stripe rust resistance from Sharon goatgrass (<i>Aegilops sharonensis</i> Eig) into bread wheat (<i>Triticum aestivum</i> L.). <i>Genome</i> , 2014 , 57, 309-16	2.4	15
20	Introgression of the Suppressor into Wheat. <i>Frontiers in Plant Science</i> , 2017 , 8, 2163	6.2	14
19	Unlocking the Genetic Diversity within A Middle-East Panel of Durum Wheat Landraces for Adaptation to Semi-arid Climate. <i>Agronomy</i> , 2018 , 8, 233	3.6	14
18	High density mapping and haplotype analysis of the major stem-solidness locus SSt1 in durum and common wheat. <i>PLoS ONE</i> , 2017 , 12, e0175285	3.7	12
17	A glycosyl transferase family 43 protein involved in xylan biosynthesis is associated with straw digestibility in <i>Brachypodium distachyon</i> . <i>New Phytologist</i> , 2018 , 218, 974-985	9.8	11
16	Wild emmer wheat as a source for high-grain-protein genes: Map-based cloning of Gpc-B1. <i>Israel Journal of Plant Sciences</i> , 2007 , 55, 297-306	0.6	11
15	Rapid evolution of Gliadin gene family revealed by analyzing Gli-2 locus regions of wild emmer wheat. <i>Functional and Integrative Genomics</i> , 2019 , 19, 993-1005	3.8	8

14	Exploring the metabolic variation between domesticated and wild tetraploid wheat genotypes in response to corn leaf aphid infestation. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1486148	2.5	8
13	Wheat domestication in light of haplotype analyses of the Brittle rachis 1 genes (BTR1-A and BTR1-B). <i>Plant Science</i> , 2019 , 285, 193-199	5.3	7
12	Wild emmer introgression alters root-to-shoot growth dynamics in durum wheat in response to water stress. <i>Plant Physiology</i> , 2021 , 187, 1149-1162	6.6	6
11	The Brittle Rachis Trait in Species Belonging to the Triticeae and Its Controlling Genes and. <i>Frontiers in Plant Science</i> , 2020 , 11, 1000	6.2	4
10	The Independent Domestication of Timopheev's Wheat: Insights from Haplotype Analysis of the () Gene. <i>Genes</i> , 2021 , 12,	4.2	4
9	Recombination between homoeologous chromosomes induced in durum wheat by the <i>Aegilops speltoides</i> Su1-Ph1 suppressor. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 3265-3276	6	3
8	Barley molybdenum cofactor sulfuryase (MCSU): sequencing, modeling, and its comparison to other higher plants. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2015 , 39, 786-796	2.2	3
7	Genome sequences of three <i>Aegilops</i> species of the section Sitopsis reveal phylogenetic relationships and provide resources for wheat improvement.. <i>Plant Journal</i> , 2022 ,	6.9	3
6	Genome sequences of <i>Aegilops</i> species of section Sitopsis reveal phylogenetic relationships and provide resources for wheat improvement		2
5	Wild emmer introgressions alter root-to-shoot growth dynamics in response to water stress		1
4	Genome based meta-QTL analysis of grain weight in tetraploid wheat identifies rare alleles of GRF4 associated with larger grains		1
3	Genome-Wide Mapping of Loci for Adult-Plant Resistance to Stripe Rust in Durum Wheat Svevo Using the 90K SNP Array. <i>Plant Disease</i> , 2021 , 105, 879-888	1.5	1
2	Functional leaf anatomy of the invasive weed <i>Solanum rostratum</i> Dunal. <i>Weed Research</i> , 2022 , 62, 172-180		1
1	A Time to Sow, a Time to Reap: Modifications to Biological and Economic Rhythms in Southwest Asian Plant and Animal Domestication. <i>Agronomy</i> , 2022 , 12, 1368	3.6	