Hakan Ã–zkan

List of Publications by Year
in descending order

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112 papers	8,442 citations	94433 37 h-index	51608 86 g-index
121 all docs	121 docs citations	121 times ranked	6402 citing authors

#	Article	IF	Citations
1	Sequence Elimination and Cytosine Methylation Are Rapid and Reproducible Responses of the Genome to Wide Hybridization and Allopolyploidy in Wheat. Plant Cell, 2001, 13, 1749-1759.	6.6	612
2	Genetics and geography of wild cereal domestication in the near east. Nature Reviews Genetics, 2002, 3, 429-441.	16.3	607
3	Durum wheat genome highlights past domestication signatures and future improvement targets. Nature Genetics, 2019, 51, 885-895.	21.4	576
4	Allopolyploidy-Induced Rapid Genome Evolution in the Wheat (Aegilopsâ€“Triticum) Group. Plant Cell, 2001, 13, 1735-1747.	6.6	540
5	Sequence Elimination and Cytosine Methylation Are Rapid and Reproducible Responses of the Genome to Wide Hybridization and Allopolyploidy in Wheat. Plant Cell, 2001, 13, 1749-1759.	6.6	497
6	DNA molecular markers in plant breeding: current status and recent advancements in genomic selection and genome editing. Biotechnology and Biotechnological Equipment, 2018, 32, 261-285.	1.3	487
7	Allopolyploidy-Induced Rapid Genome Evolution in the Wheat (Aegilops-Triticum) Group. Plant Cell, 2001, 13, 1735-1747.	6.6	419
8	Concentration and localization of zinc during seed development and germination in wheat. Physiologia Plantarum, 2006, 128, 144-152.	5.2	314
9	Triticum dicoccoides: An important genetic resource for increasing zinc and iron concentration in modern cultivated wheat. Soil Science and Plant Nutrition, 2004, 50, 1047-1054.	1.9	298
10	Tracing the ancestry of modern bread wheats. Nature Genetics, 2019, 51, 905-911.	21.4	230
11	AFLP Analysis of a Collection of Tetraploid Wheats Indicates the Origin of Emmer and Hard Wheat Domestication in Southeast Turkey. Molecular Biology and Evolution, 2002, 19, 1797-1801.	8.9	217
12	Independent Wheat B and G Genome Origins in Outcrossing Aegilops Progenitor Haplotypes. Molecular Biology and Evolution, 2007, 24, 217-227.	8.9	194
13	Zinc and Iron Concentrations in Seeds of Wild, Primitive, and Modern Wheats. Food and Nutrition Bulletin, 2000, 21, 401-403.	1.4	162
14	Molecular Diversity at 18 Loci in 321 Wild and 92 Domesticate Lines Reveal No Reduction of Nucleotide Diversity during Triticum monococcum (Einkorn) Domestication: Implications for the Origin of Agriculture. Molecular Biology and Evolution, 2007, 24, 2657-2668.	8.9	162
15	A reconsideration of the domestication geography of tetraploid wheats. Theoretical and Applied Genetics, 2005, 110, 1052-1060.	3.6	144
16	Geographic distribution and domestication of wild emmer wheat (Triticum dicoccoides). Genetic Resources and Crop Evolution, 2011, 58, 11-53.	1.6	140
17	Chromosome-scale genome assembly provides insights into rye biology, evolution and agronomic potential. Nature Genetics, 2021, 53, 564-573.	21.4	138
18	A Whole Genome DArTseq and SNP Analysis for Genetic Diversity Assessment in Durum Wheat from Central Fertile Crescent. PLoS ONE, 2017, 12, e0167821.	2.5	137

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19	Nonadditive Changes in Genome Size During Allopolyploidization in the Wheat (Aegilops-Triticum) Group. , 2003, 94, 260-264.		121
20	Haplotype structure at seven barley genes: relevance to gene pool bottlenecks, phylogeny of ear type and site of barley domestication. Molecular Genetics and Genomics, 2006, 276, 230-241.	2.1	114
21	Aegilops. , 2011, , 1-76.		89
22	Detecting DNA Polymorphism and Genetic Diversity in a Wide Pistachio Germplasm: Comparison of AFLP, ISSR, and RAPD Markers. Journal of the American Society for Horticultural Science, 2006, 131, 522-529.	1.0	69
23	Alterations in subtelomeric tandem repeats during early stages of allopolyploidy in wheat. Genome, 2004, 47, 860-867.	2.0	67
24	Evolutionary History of Wild Barley (Hordeum vulgare subsp. spontaneum) Analyzed Using Multilocus Sequence Data and Paleodistribution Modeling. Genome Biology and Evolution, 2014, 6, 685-702.	2.5	64
25	Genetic variation among lentil (Lens culinaris Medik) landraces from Southeast Turkey. Plant Breeding, 2009, 128, 178-186.	1.9	61
26	Diversity of Macro- and Micronutrients in the Seeds of Lentil Landraces. Scientific World Journal, The, 2012, 2012, 1-9.	2.1	61
27	Genetic Diversity and Population Structure in a Legacy Collection of Spring Barley Landraces Adapted to a Wide Range of Climates. PLoS ONE, 2014, 9, e116164.	2.5	61
28	iPBS-Retrotransposons-based genetic diversity and relationship among wild annual Cicer species. Journal of Plant Biochemistry and Biotechnology, 2013, 22, 453-466.	1.7	56
29	Meiotically Stable Natural Epialleles of Sadhu, a Novel Arabidopsis Retroposon. PLoS Genetics, 2006, 2, e36.	3.5	55
30	Diversity Assessment of Turkish Maize Landraces Based on Fluorescent Labelled SSR Markers. Plant Molecular Biology Reporter, 2012, 30, 261-274.	1.8	53
31	DNA based iPBS-retrotransposon markers for investigating the population structure of pea (Pisum) Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	53
32	Separating the wheat from the chaff â€“ a strategy to utilize plant genetic resources from ex situ genebanks. Scientific Reports, 2014, 4, 5231.	3.3	51
33	Identification QTLs Controlling Genes for Se Uptake in Lentil Seeds. PLoS ONE, 2016, 11, e0149210.	2.5	51
34	Exome sequences and multiâ€environment field trials elucidate the genetic basis of adaptation in barley. Plant Journal, 2019, 99, 1172-1191.	5.7	50
35	Domestication of the Triticeae in the Fertile Crescent. , 2009, , 81-119.		49
36	Nutritional and physicochemical variation in Turkish kabuli chickpea (Cicer arietinum L.) landraces. Euphytica, 2010, 175, 237-249.	1.2	49

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37	Differences in Zinc Efficiency among and within Diploid, Tetraploid and Hexaploid Wheats. Annals of Botany, 1999, 84, 163-171.	2.9	48
38	DNA Polymorphism and Assessment of Genetic Relationships in Walnut Genotypes Based on AFLP and SAMPL Markers. Journal of the American Society for Horticultural Science, 2005, 130, 585-590.	1.0	47
39	Variation of some seed mineral contents in open pollinated faba bean (Vicia faba L.) landraces from Turkey. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2014, 38, 591-602.	2.1	46
40	Introducing Beneficial Alleles from Plant Genetic Resources into the Wheat Germplasm. Biology, 2021, 10, 982.	2.8	46
41	Genotypic variation in tetraploid wheat affecting homoeologous pairing in hybrids withAegilops peregrina. Genome, 2001, 44, 1000-1006.	2.0	44
42	The Global Durum Wheat Panel (GDP): An International Platform to Identify and Exchange Beneficial Alleles. Frontiers in Plant Science, 2020, 11, 569905.	3.6	44
43	Natural Variation And Identification Of Microelements Content In Seeds Of Einkorn Wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Ove	0.2	40
44	QTLs for iron concentration in seeds of the cultivated lentil (Lens culinaris Medic.) via genotyping by sequencing. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2017, 41, 243-255.	2.1	40
45	Seed-Derived Microbial Colonization of Wild Emmer and Domesticated Bread Wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlo and Composition. MBio, 2020, 11, .	4.1	40
46	QTL Mapping of Genome Regions Controlling Manganese Uptake in Lentil Seed. G3: Genes, Genomes, Genetics, 2018, 8, 1409-1416.	1.8	38
47	No DNA loss in autotetraploids of Arabidopsis thaliana. Plant Breeding, 2006, 125, 288-291.	1.9	36
48	Variation for selected morphological and quality-related traits among 178 faba bean landraces collected from Turkey. Plant Genetic Resources: Characterisation and Utilisation, 2014, 12, 5-13.	0.8	35
49	TOLERANCE OF 65 DURUM WHEAT GENOTYPES TO ZINC DEFICIENCY IN A CALCAREOUS SOIL. Journal of Plant Nutrition, 2001, 24, 1831-1847.	1.9	34
50	Insect-resistant transgenic crops: retrospect and challenges. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2015, 39, 531-548.	2.1	34
51	Rapid differentiation of homeologous chromosomes in newly-formed allopolyploid wheat. Israel Journal of Plant Sciences, 2002, 50, 65-76.	0.5	32
52	Distribution of vernalization and photoperiod genes (Vrn-A1, Vrn-B1, Vrn-D1, Vrn-B3, Ppd-D1)in Turkish bread wheat cultivars and landraces. Cereal Research Communications, 2011, 39, 352-364.	1.6	30
53	Inter-primer binding site retrotransposon and inter-simple sequence repeat diversity among wild Lens species. Biochemical Systematics and Ecology, 2015, 58, 162-168.	1.3	30
54	Estimating Genetic Diversity in Durum and Bread Wheat Cultivars from Turkey using AFLP and SAMPL Markers. Plant Breeding, 2008, 127, 9-14.	1.9	29

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55	Identification of common root-lesion nematode (Pratylenchus thornei Sher et Allen) loci in bread wheat. Genome, 2006, 49, 1319-1323.	2.0	28
56	Rapid cytological diploidization in newly formed allopolyploids of the wheat (Aegilops-Triticum) group. Genome, 2009, 52, 926-934.	2.0	28
57	Genome size variation in diploid and tetraploid wild wheats. AoB PLANTS, 2010, 2010, plq015.	2.3	27
58	Development, characterization and mapping of microsatellite markers for lentil (Lens culinaris) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	27
59	A consensus linkage map of lentil based on DArT markers from three RIL mapping populations. PLoS ONE, 2018, 13, e0191375.	2.5	26
60	Quantification of genetic relationships among A genomes of wheats. Genome, 2006, 49, 297-305.	2.0	24
61	Testing of rye-specific markers located on 1RS chromosome and distribution of 1AL.RS and 1BL.RS translocations in Turkish wheat (Triticum aestivum L., T. durum Desf.) varieties and landraces. Genetic Resources and Crop Evolution, 2010, 57, 119-129.	1.6	24
62	Chromosomal Passports Provide New Insights into Diffusion of Emmer Wheat. PLoS ONE, 2015, 10, e0128556.	2.5	23
63	Wheat domestication in light of haplotype analyses of the Brittle rachis 1 genes (BTR1-A and BTR1-B). Plant Science, 2019, 285, 193-199.	3.6	23
64	Genetic relationships among South-East Turkey wild barley populations and sampling strategies of Hordeum spontaneum. Theoretical and Applied Genetics, 2005, 112, 12-20.	3.6	22
65	Genetic Linkage Map of Anatolian Durum Wheat Derived from a Cross of Kunduru-1149 Ã— Cham1. Plant Molecular Biology Reporter, 2015, 33, 209-220.	1.8	22
66	Genetic analysis of some physical properties of bread wheat grain (Triticum aestivum L. em Thell). Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 0, , .	2.1	22
67	Phylogeny and genetic structure in the genus Secale. PLoS ONE, 2018, 13, e0200825.	2.5	20
68	Genetic diversity, distribution and domestication history of the neglected GGAtAt genepool of wheat. Theoretical and Applied Genetics, 2022, 135, 755-776.	3.6	20
69	Variation in zinc efficiency among and within Aegilops species. Journal of Plant Nutrition and Soil Science, 1999, 162, 257-262.	1.9	19
70	Comment on "AFLP data and the origins of domesticated crops". Genome, 2004, 47, 615-620.	2.0	19
71	High levels of segregation distortion in the molecular linkage map of bread wheat representing the West Asia and North Africa region. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2016, 40, 352-364.	2.1	19
72	Phenotypic and genotypic intra-diversity among Anatolian durum wheat â€œKunduruâ€•landraces. Biochemical Systematics and Ecology, 2016, 65, 9-16.	1.3	18

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73	Genotypic variation in tetraploid wheat affecting homoeologous pairing in hybrids with Aegilops peregrina. Genome, 2001, 44, 1000-1006.	2.0	16
74	The allelic state at the major semi-dwarfing genes in a panel of Turkish bread wheat cultivars and landraces. Plant Genetic Resources: Characterisation and Utilisation, 2011, 9, 423-429.	0.8	15
75	Effects of different priming applications on seed germination and some agromorphological characteristics of bread wheat (Triticum aestivum L.). Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2015, 39, 1005-1013.	2.1	14
76	Genetic structure and eco-geographical adaptation of garlic landraces (Allium sativum L.) in Iran. Genetic Resources and Crop Evolution, 2014, 61, 1565-1580.	1.6	12
77	Bioactives and Nutraceuticals in Food Legumes: Nutritional Perspective. , 2021, , 229-245.		11
78	The Independent Domestication of Timopheevâ€™s Wheat: Insights from Haplotype Analysis of the Brittle rachis 1 (BTR1-A) Gene. Genes, 2021, 12, 338.	2.4	11
79	Melez MÄ±sÄ±r IslahÄ±nda In-Vivo KatlanmÄ±ÅŸ Haploid TekniÄŸinde KullanÄ±lan FarklÄ± Inducer Genotiplerin Haploid Ã°ndirgeme OranlarÄ±n Belirlenmesi. Tarla Bitkileri Merkez AraÅŸtÄ±rma EnstitÃ¼sÃ¼ Dergisi, 2016, 25, 52-52.	0.6	11
80	Screening of wild emmer wheat accessions (Triticum turgidum subsp. dicoccoides) for mycorrhizal dependency. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 0, , .	2.1	11
81	Stress tolerance in hexaploid spring triticale under Mediterranean environment. Plant Breeding, 1999, 118, 365-367.	1.9	10
82	Mirza (HacÄ±zade) GÃ¶kgÃ¶l (1897â€“1981): the great explorer of wheat genetic resources in Turkey. Genetic Resources and Crop Evolution, 2018, 65, 693-711.	1.6	10
83	Population structure of rice varieties used in Turkish rice breeding programs determined using simple-sequence repeat and inter-primer binding site-retrotransposon data. Genetics and Molecular Research, 2016, 15, .	0.2	9
84	First Report of Ascochyta rabiei Causing Ascochyta Blight of Cicer pinnatifidum. Plant Disease, 2007, 91, 908-908.	1.4	9
85	The grain Hardness locus characterized in a diverse wheat panel (Triticum aestivum L.) adapted to the central part of the Fertile Crescent: genetic diversity, haplotype structure, and phylogeny. Molecular Genetics and Genomics, 2016, 291, 1259-1275.	2.1	8
86	Tolerance and stability studies on durum wheat under drought and heat stress conditions. Cereal Research Communications, 1998, 26, 405-412.	1.6	7
87	Marker-assisted selection and validation of DNA markers associated with cadmium content in durum wheat germplasm. Crop and Pasture Science, 2022, 73, 943-956.	1.5	7
88	CONTRIBUTION OF SOIL MINERAL NITROGEN IN WHEAT PRODUCTION. Journal of Plant Nutrition, 2001, 24, 1871-1883.	1.9	6
89	Geographical and environmental determinants of the genetic structure of wild barley in southeastern Anatolia. PLoS ONE, 2018, 13, e0192386.	2.5	6
90	GENETIC DIVERSITY OF CROCUS SATIVUS AND ITS CLOSE RELATIVE SPECIES ANALYZED BY iPBS-RETROTRANSPOSONS. Turkish Journal of Field Crops, 0, , .	0.8	6

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91	Diversity and phylogeny of saffron (Crocus sativus L.) accessions based on iPBS markers. Genetika, 2018, 50, 33-44.	0.4	6
92	Genome-Wide Association Study of Root-Lesion Nematodes Pratylenchus Species and Crown Rot Fusarium culmorum in Bread Wheat. Life, 2022, 12, 372.	2.4	6
93	Chloroplast DNA haplotype variation within two natural populations of wild emmer wheat (Triticum turgidumssp.dicoccoides) in southern Turkey. Biotechnology and Biotechnological Equipment, 2015, 29, 423-430.	1.3	5
94	Genomic Prediction of Grain Yield in a Barley MAGIC Population Modeling Genotype per Environment Interaction. Frontiers in Plant Science, 2021, 12, 664148.	3.6	5
95	Turkish durum wheat conserved exâ€situ and in situ unveils a new hotspot of unexplored genetic diversity. Crop Science, 2022, 62, 1200-1212.	1.8	5
96	A new genetic linkage map in einkorn wheat (Triticum monococcum) detects two major QTLs for heading date in chromosome 2A and 5A, probably corresponding to the photoperiod and vernalization genes. Plant Breeding, 2022, 141, 12-25.	1.9	5
97	Recombination Landscape Divergence Between Populations is Marked by Larger Low-Recombining Regions in Domesticated Rye. Molecular Biology and Evolution, 2022, 39, .	8.9	5
98	Sequence Elimination and Cytosine Methylation Are Rapid and Reproducible Responses of the Genome to Wide Hybridization and Allopolyploidy in Wheat. Plant Cell, 2001, 13, 1749.	6.6	4
99	Title is missing!. Genetic Resources and Crop Evolution, 2003, 50, 829-833.	1.6	4
100	Evolution and Domestication of Rye. Compendium of Plant Genomes, 2021, , 85-100.	0.5	4
101	Sivas Ekolojik KoÅŸullarÄ±nda SoÄŸuÄŸa DayanÄ±klÄ± Bezelye (Pisum sativum ssp. sativum L. ve ssp. arvense L.) Genotiplerinin Belirlenmesi. Tarla Bitkileri Merkez AraÅŞtÄ±rma EnstitÃ¼sÃ¼ Dergisi, 2016, 25, 171-171.	0.6	4
102	Correlation and Path Coefficient Analysis for Ear Characters in Triticale Under Mediterranean Climatic Conditions. Journal of Agronomy and Crop Science, 1995, 174, 297-300.	3.5	3
103	Yield and carbon isotope discrimination in near-isogenic lines of durum wheat differing in glume length. Cereal Research Communications, 2000, 28, 169-172.	1.6	3
104	Chromosome and Molecular Analyses Reveal Significant Karyotype Diversity and Provide New Evidence on the Origin of Aegilops columnaris. Plants, 2021, 10, 956.	3.5	3
105	Contribution of Landraces in Wheat Breeding. , 2021, , 215-258.		3
106	Identification of chromosomal regions in the genetic control of quality traits in durum wheat (Triticumturgidum L.) from the Fertile Crescent. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2019, 43, 334-350.	2.1	3
107	Endangered Wild Crop Relatives of the Fertile Crescent. , 2022, , 673-682.		2
108	ÃœLKEMÄ°ZÄ°N FARKLI BÃ–LGELERÄ°NDEN TOPLANAN BAKLA (Vicia faba L.) YEREL POPULASYONLARININ AGRONOMÄ°K VE MORFOLOJÄ°K KAREKTERÄ°ZASYONU. KahramanmaraÅŸ SÃ¼tÃ§Ã¼ Ä°mam Ãœniversitesi TarÄ±m Ve DoÄŸa Dergisi, 0, 2 356-361.	0.1	

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109	Assessment of Micro and Macro Nutrients Contents in the Turkish Faba Bean Germplasm. â€œAgriculture for Life Life for Agricultureâ€•Conference Proceedings, 2018, 1, 72-78.	0.1	1
110	BazÄ± Ekmeklik BuÄŸday Ã‡eÅŸitlerinin KÃ¶k Yara NematodlarÄ± Pratylenchus thornei ve Pratylenchus neglectusâ€™a (Tylenchida: Pratylenchidae) KarÅŸÄ± DayanÄ±klÄ±lÄ±klarÄ±nÄ±n Belirlenmesi. Tarim Bilimleri Dergisi, 2014, 21, 61.	0.4	0
111	Identification of markers associated with traits for use in marker-assisted selection in saffron. Genetika, 2018, 50, 971-982.	0.4	0
112	High accuracy of genome-enabled prediction of belowground and physiological traits in barley seedlings. G3: Genes, Genomes, Genetics, 2022, , .	1.8	0