Michael Baum

List of Publications by Year
in descending order

89 papers	3,921 citations	117625 34 h-index	133252 59 g-index
93 all docs	93 docs citations	93 times ranked	4063 citing authors

#	Article	IF	Citations
1	Differentially expressed genes between drought-tolerant and drought-sensitive barley genotypes in response to drought stress during the reproductive stage. Journal of Experimental Botany, 2009, 60, 3531-3544.	4.8	349
2	SuperSAGE: the drought stress-responsive transcriptome of chickpea roots. BMC Genomics, 2008, 9, 553.	2.8	209
3	Genetic structure, diversity, and allelic richness in composite collection and reference set in chickpea (Cicer arietinum L.). BMC Plant Biology, 2008, 8, 106.	3.6	170
4	Diversity maintenance and use of Vicia faba L. genetic resources. Field Crops Research, 2010, 115, 270-278.	5.1	155
5	QTLs for chlorophyll and chlorophyll fluorescence parameters in barley under post-flowering drought. Euphytica, 2008, 163, 203-214.	1.2	140
6	The yield correlations of selectable physiological traits in a population of advanced spring wheat lines grown in warm and drought environments. Field Crops Research, 2012, 128, 129-136.	5.1	125
7	Quantitative trait loci associated with adaptation to Mediterranean dryland conditions in barley. Theoretical and Applied Genetics, 2008, 117, 653-669.	3.6	122
8	QTL for yield and associated traits in the Seri/Babax population grown across several environments in Mexico, in the West Asia, North Africa, and South Asia regions. Theoretical and Applied Genetics, 2013, 126, 971-984.	3.6	119
9	PARTICIPATORY PLANT BREEDING IN WATER-LIMITED ENVIRONMENTS. Experimental Agriculture, 2007, 43, 411-435.	0.9	106
10	Allelic variations and differential expressions detected at quantitative trait loci for salt stress tolerance in wheat. Plant, Cell and Environment, 2018, 41, 919-935.	5.7	100
11	Current knowledge in lentil genomics and its application for crop improvement. Frontiers in Plant Science, 2015, 6, 78.	3.6	93
12	Genome wide association analyses for drought tolerance related traits in barley (Hordeum vulgare) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.1	91
13	Sources of resistance in bread wheat to Russian wheat aphid (Diuraphis noxia) in Syria identified using the Focused Identification of Germplasm Strategy (FIGS). Plant Breeding, 2011, 130, 96-97.	1.9	90
14	Validation of a novel, fully integrated and flexible microarray benchtop facility for gene expression profiling. Nucleic Acids Research, 2003, 31, 151e-151.	14.5	89
15	Development of new microsatellite markers and their application in the analysis of genetic diversity in lentils. Breeding Science, 2009, 59, 77-86.	1.9	89
16	Differential Selection on Rhynchosporium secalis During Parasitic and Saprophytic Phases in the Barley Scald Disease Cycle. Phytopathology, 2006, 96, 1214-1222.	2.2	85
17	Alternative Splicing Microarrays Reveal Functional Expression of Neuron-specific Regulators in Hodgkin Lymphoma Cells. Journal of Biological Chemistry, 2005, 280, 4779-4784.	3.4	76
18	Variation at the vernalisation genes Vrn-H1 and Vrn-H2 determines growth and yield stability in barley (Hordeum vulgare) grown under dryland conditions in Syria. Theoretical and Applied Genetics, 2013, 126, 2803-2824.	3.6	75

#	Article	IF	Citations
19	Barley yield formation under abiotic stress depends on the interplay between flowering time genes and environmental cues. Scientific Reports, 2019, 9, 6397.	3.3	71
20	Transcriptional analysis between two wheat near-isogenic lines contrasting in aluminum tolerance under aluminum stress. Molecular Genetics and Genomics, 2007, 277, 1-12.	2.1	70
21	Allelic Variations of a Light Harvesting Chlorophyll A/B-Binding Protein Gene (Lhcb1) Associated with Agronomic Traits in Barley. PLoS ONE, 2012, 7, e37573.	2.5	69
22	Breeding and genomics status in faba bean (Vicia faba). Plant Breeding, 2019, 138, 465-473.	1.9	61
23	Analysis of genetic diversity in Tunisian durum wheat cultivars and related wild species by SSR and AFLP markers. Genetic Resources and Crop Evolution, 2005, 52, 21-31.	1.6	59
24	Identification and validation of a core set of informative genic SSR and SNP markers for assaying functional diversity in barley. Molecular Breeding, 2008, 22, 1-13.	2.1	57
25	Asymmetric alleleâ€specific expression in relation to developmental variation and drought stress in barley hybrids. Plant Journal, 2009, 59, 14-26.	5.7	56
26	The potential contribution of wild barley (Hordeum vulgare ssp. spontaneum) germplasm to drought tolerance of cultivated barley (H. vulgare ssp. vulgare). Field Crops Research, 2011, 120, 161-168.	5.1	54
27	Multi-dimensional evaluation of response to salt stress in wheat. PLoS ONE, 2019, 14, e0222659.	2.5	51
28	Assessment of genetic diversity and yield performance in Jordanian barley (Hordeum vulgare L.) landraces grown under Rainfed conditions. BMC Plant Biology, 2017, 17, 191.	3.6	45
29	Mapping adaptation of barley to droughted environments. Euphytica, 2008, 161, 35-45.	1.2	44
30	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
31	Identification of barley mutants in the cultivar â€˜Luxâ€™ at the Dhn loci through TILLING. Plant Breeding, 2009, 128, 332-336.	1.9	42
32	Genetic analysis and phenotypic associations for drought tolerance in Hordeum spontaneum introgression lines using SSR and SNP markers. Euphytica, 2013, 189, 9-29.	1.2	42
33	Genetic variations of HvP5CS1 and their association with drought tolerance related traits in barley (Hordeum vulgare L.). Scientific Reports, 2017, 7, 7870.	3.3	39
34	Genetic Diversity and Association Analysis for Salinity Tolerance, Heading Date and Plant Height of Barley Germplasm Using Simple Sequence Repeat Markers. Journal of Integrative Plant Biology, 2008, 50, 1004-1014.	8.5	37
35	Title is missing!. Euphytica, 2002, 125, 265-272.	1.2	34
36	Features of SNP and SSR diversity in a set of ICARDA barley germplasm collection. Molecular Breeding, 2010, 26, 229-242.	2.1	34

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37	Molecular characterization of Ethiopian indigenous goat populations. Tropical Animal Health and Production, 2012, 44, 1239-1246.	1.4	34
38	Isolation and sequence analysis of DREB2A homologues in three cereal and two legume species. Plant Science, 2009, 177, 460-467.	3.6	33
39	Expression of the DREB1A gene in lentil (Lens culinaris Medik. subsp. culinaris) transformed with the Agrobacterium system. Crop and Pasture Science, 2011, 62, 488.	1.5	33
40	Genetic Diversity of Iraqi Date Palms Revealed By Microsatellite Polymorphism. Journal of the American Society for Horticultural Science, 2011, 136, 282-287.	1.0	31
41	Molecular Approaches and Breeding Strategies for Drought Tolerance in Barley. , 2007, , 51-79.		30
42	Agronomic Performance of Elite Stem Rust Resistant Spring Wheat Genotypes and Association among Trial Sites in the Central and West Asia and North Africa Region. Crop Science, 2012, 52, 1105-1114.	1.8	30
43	Genetic diversity of Rhynchosporium secalis in Tunisia as revealed by pathotype, AFLP, and microsatellite analyses. Mycopathologia, 2007, 163, 281-294.	3.1	29
44	Characterization of a prolyl endoprotease from Eurygaster integriceps puton (Sunn pest) infested wheat. Archives of Insect Biochemistry and Physiology, 2010, 74, 163-178.	1.5	27
45	Single Nucleotide Polymorphisms in HSP17.8 and Their Association with Agronomic Traits in Barley. PLoS ONE, 2013, 8, e56816.	2.5	27
46	Characterization of an Escherichia coli elaC deletion mutant. Biochemical and Biophysical Research Communications, 2004, 320, 1365-1373.	2.1	26
47	Breeding for Drought Resistance in a Changing Climate. CSSA Special Publication - Crop Science Society of America, 0, , 167-190.	0.1	26
48	Crop wild relatives in durum wheat breeding: Drift or thrift?. Crop Science, 2021, 61, 37-54.	1.8	26
49	Grass Pea. , 2013, , 269-292.		25
50	Genetic diversity of ICARDAâ€™s worldwide barley landrace collection. Genetic Resources and Crop Evolution, 2008, 55, 1221-1230.	1.6	24
51	Conservation of microsatellite flanking sequences in different taxa of Leguminosae. Euphytica, 2004, 138, 239-245.	1.2	22
52	Genomicsâ€assisted lentil breeding: Current status and future strategies. , 2021, 3, e71.		22
53	Genetic and transcriptional variations in NRAMP-2 and OPAQUE1 genes are associated with salt stress response in wheat. Theoretical and Applied Genetics, 2019, 132, 323-346.	3.6	20
54	New molecular markers linked to qualitative and quantitative powdery mildew and scald resistance genes in barley for dry areas. Euphytica, 2004, 135, 225-228.	1.2	18

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55	Pathogenic and genetic diversity of Didymella rabiei affecting chickpea in Syria. Crop Protection, 2013, 46, 70-79.	2.1	18
56	SSR analysis of introgression of drought tolerance from the genome of Hordeum spontaneum into cultivated barley (Hordeum vulgare ssp vulgare). Euphytica, 2013, 191, 231-243.	1.2	18
57	Resistance gene analogs associated with Fusarium head blight resistance in wheat. Euphytica, 2006, 151, 251-261.	1.2	16
58	Advances in Lentil Genomics. , 2014, , 111-130.		15
59	Wild Lathyrus species as a great source of resistance for introgression into cultivated grass pea () Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	14
60	Assessment of genetic diversity among Jordanian wild barley (Hordeum spontaneum) genotypes revealed by SSR markers. Genetic Resources and Crop Evolution, 2016, 63, 813-822.	1.6	11
61	SSR and SNP diversity in a barley germplasm collection. Plant Genetic Resources: Characterisation and Utilisation, 2008, 6, 167-174.	0.8	10
62	New resistance sources to Russian wheat aphid (Diuraphis noxia) in Swedish wheat substitution and translocation lines with rye (Secale cereale) and Leymus mollis. Czech Journal of Genetics and Plant Breeding, 2015, 51, 162-165.	0.8	10
63	Development of a panel of unigene-derived polymorphic ESTâ€“SSR markers in lentil using public database information. Crop Journal, 2016, 4, 425-433.	5.2	10
64	Pathogenic and genetic diversity ofBotrytis fabaeSand. isolates from faba bean fields in different agro-ecological zones of Northern Ethiopia. Archives of Phytopathology and Plant Protection, 2012, 45, 1218-1236.	1.3	9
65	Assessing genetic diversity of Hamdani sheep breed in Kurdistan region of Iraq using microsatellite markers. African Journal of Biotechnology, 2011, 10, .	0.6	9
66	Comparative virulence of Pyrenophora teres f. teres from Syria and Tunisia and screening for resistance sources in barley: implications for breeding. Letters in Applied Microbiology, 2011, 53, 489-502.	2.2	8
67	Genomics and Molecular Breeding for Improving Tolerance to Abiotic Stress in Barley (Hordeum) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	8
68	Consequences of a decentralized participatory barley breeding programme on changes in SSR allele frequency and diversity in one cycle of selection. Plant Breeding, 2007, 126, 527-532.	1.9	7
69	New approaches for the study of osmotic stress induced by polyethylene glycol (PEG) in cereal species. Cereal Research Communications, 2010, 38, 471-481.	1.6	7
70	Chickpea Ascochyta Blight: Disease Status and Pathogen Mating Type Distribution in Syria. Journal of Phytopathology, 2011, 159, no-no.	1.0	7
71	Genetic Dissection of Heat Stress Tolerance in Faba Bean (Vicia faba L.) Using GWAS. Plants, 2022, 11, 1108.	3.5	7
72	Construction of new EST-SSRs for Fusarium resistant wheat breeding. Computational Biology and Chemistry, 2017, 68, 22-28.	2.3	6

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73	Date Palm Genetic Diversity Analysis Using Microsatellite Polymorphism. Methods in Molecular Biology, 2017, 1638, 113-124.	0.9	6
74	Assessment and modeling using machine learning of resistance to scald (Rhynchosporium commune) in two specific barley genetic resources subsets. Scientific Reports, 2021, 11, 15967.	3.3	6
75	Pathogenicity Spectra and Screening for Resistance in Barley Against Tunisian Pyrenophora teres f. teres. Plant Disease, 2012, 96, 1569-1575.	1.4	5
76	Genetic diversity among summer and winter Beauveria bassiana populations as revealed by AFLP analysis. Journal of Asia-Pacific Entomology, 2013, 16, 269-273.	0.9	5
77	Rare allele of HvLox-1 associated with lipoxygenase activity in barley (Hordeum vulgare L.). Theoretical and Applied Genetics, 2014, 127, 2095-2103.	3.6	5
78	A SSR kit to study genetic diversity in chickpea (Cicer arietinum L.). Plant Genetic Resources: Characterisation and Utilisation, 2014, 12, S118-S120.	0.8	5
79	QTL Analysis of Ascochyta Blight Resistance in Chickpea. Communications in Computer and Information Science, 2009, , 25-40.	0.5	4
80	Genetical Analysis of Ascochyta Blight Resistance in Chickpea. Communications in Computer and Information Science, 2009, , 31-37.	0.5	4
81	Screening for Prostate Cancer: Can We Learn from the Mistakes of the Breast Screening Experience?. European Urology, 2013, 64, 540-541.	1.9	2
82	Intra-cultivar variability at microsatellite loci in date palm cultivars across the GCC countries. QScience Connect, 2020, 2020, .	0.3	2
83	Biotechnology: Can It Really Solve the Problems of Food Production?. Assa, Cssa and Sssa, 0, , 89-95.	0.6	1
84	Genetic variation in winter barley and selection of high yielding lines. Indian Journal of Agricultural Research, 2015, 49, .	0.1	1
85	Identification and Mapping of QTLs for Resistance to Ascochyta Blight (Pathotype III) in Chickpea. , 2008, , .		0
86	A Method for Estimating Limits of Differentially Expressed Levels in cDNA Microarray. , 2011, , .		0
87	Assessment the Response of Chickpea Genotypes to Agrobacterium -Mediated Transformation System. Science Journal of University of Zakho, 2016, 4, 73-80.	0.1	0
88	Molecular and functional assessment of a Chitinase gene in chickpea. Arab Journal of Plant Protection, 2017, 35, 145-154.	0.2	0
89	Slow rusting of bread wheat landraces to Pucciniastriiformisf.sp. triticiunder artificial field inoculation. Arab Journal of Plant Protection, 2018, 36, 164-175.	0.2	0