Marco Maccaferri

List of Publications by Year
in descending order

65	8,313	81743	128067
papers	citations	39 h-index	60 g-index

66	66	66	5755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization of polyploid wheat genomic diversity using a highâ€density 90Â000 single nucleotide polymorphism array. Plant Biotechnology Journal, 2014, 12, 787-796.	4.1	1,828
2	Wild emmer genome architecture and diversity elucidate wheat evolution and domestication. Science, 2017, 357, 93-97.	6.0	781
3	Durum wheat genome highlights past domestication signatures and future improvement targets. Nature Genetics, 2019, 51, 885-895.	9.4	576
4	Quantitative Trait Loci for Grain Yield and Adaptation of Durum Wheat (Triticum durum Desf.) Across a Wide Range of Water Availability. Genetics, 2008, 178, 489-511.	1.2	397
5	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
6	A Genome-Wide Association Study of Resistance to Stripe Rust (Puccinia striiformisf.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 T G3: Genes, Genomes, Genetics, 2015, 5, 449-465.	0.8	356
7	Mapping QTLs Regulating Morpho-physiological Traits and Yield: Case Studies, Shortcomings and Perspectives in Drought-stressed Maize. Annals of Botany, 2002, 89, 941-963.	1.4	331
8	Association mapping in durum wheat grown across a broad range of water regimes. Journal of Experimental Botany, 2011, 62, 409-438.	2.4	270
9	Population structure and long-range linkage disequilibrium in a durum wheat elite collection. Molecular Breeding, 2005, 15, 271-290.	1.0	212
10	Prioritizing quantitative trait loci for root system architecture in tetraploid wheat. Journal of Experimental Botany, 2016, 67, 1161-1178.	2.4	206
11	Resequencing of 145 Landmark Cultivars Reveals Asymmetric Sub-genome Selection and Strong Founder Genotype Effects on Wheat Breeding in China. Molecular Plant, 2020, 13, 1733-1751.	3.9	129
12	A multiparental cross population for mapping <scp>QTL</scp> for agronomic traits in durum wheat (<scp>T</scp>riticum turgidum ssp. durum). Plant Biotechnology Journal, 2016, 14, 735-748.	4.1	121
13	High-throughput SNP discovery and genotyping in durum wheat (Triticum durum Desf.). Theoretical and Applied Genetics, 2011, 123, 555-569.	1.8	120
14	Comparative Aerial and Ground Based High Throughput Phenotyping for the Genetic Dissection of NDVI as a Proxy for Drought Adaptive Traits in Durum Wheat. Frontiers in Plant Science, 2018, 9, 893.	1.7	117
15	Toward positional cloning of Vgt1, a QTL controlling the transition from the vegetative to the reproductive phase in maize. Plant Molecular Biology, 2002, 48, 601-613.	2.0	116
16	Searching for novel sources of field resistance to Ug99 and Ethiopian stem rust races in durum wheat via association mapping. Theoretical and Applied Genetics, 2013, 126, 1237-1256.	1.8	116
17	Genetic dissection of seminal root architecture in elite durum wheat germplasm. Annals of Applied Biology, 2007, 151, 291-305.	1.3	115
18	Association mapping for root architectural traits in durum wheat seedlings as related to agronomic performance. Molecular Breeding, 2014, 34, 1629-1645.	1.0	115

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19	Searching for quantitative trait loci controlling root traits in maize: a critical appraisal. Plant and Soil, 2003, 255, 35-54.	1.8	104
20	Microsatellite analysis reveals a progressive widening of the genetic basis in the elite durum wheat germplasm. Theoretical and Applied Genetics, 2003, 107, 783-797.	1.8	104
21	Extending the Marker Ã— Environment Interaction Model for Genomicâ€Enabled Prediction and Genomeâ€Wide Association Analysis in Durum Wheat. Crop Science, 2016, 56, 2193-2209.	0.8	101
22	Wheat syntenome unveils new evidences of contrasted evolutionary plasticity between paleoâ€and neoduplicated subgenomes. Plant Journal, 2013, 76, 1030-1044.	2.8	99
23	An integrated DArT-SSR linkage map of durum wheat. Molecular Breeding, 2008, 22, 629-648.	1.0	97
24	Association mapping of leaf rust response in durum wheat. Molecular Breeding, 2010, 26, 189-228.	1.0	86
25	A consensus framework map of durum wheat (Triticum durum Desf.) suitable for linkage disequilibrium analysis and genome-wide association mapping. BMC Genomics, 2014, 15, 873.	1.2	85
26	Genome-wide association mapping reveals a rich genetic architecture of stripe rust resistance loci in emmer wheat (Triticum turgidum ssp. dicoccum). Theoretical and Applied Genetics, 2017, 130, 2249-2270.	1.8	80
27	QTL dissection of yield components and morpho-physiological traits in a durum wheat elite population tested in contrasting thermo-pluviometric conditions. Crop and Pasture Science, 2014, 65, 80.	0.7	79
28	Wheat root systems as a breeding target for climate resilience. Theoretical and Applied Genetics, 2021, 134, 1645-1662.	1.8	74
29	Genome-wide association mapping for seedling and field resistance to Puccinia striiformis f. sp. tritici in elite durum wheat. Theoretical and Applied Genetics, 2017, 130, 649-667.	1.8	71
30	Association Mapping Reveals Novel Stem Rust Resistance Loci in Durum Wheat at the Seedling Stage. Plant Genome, 2014, 7, plantgenome2013.08.0026.	1.6	67
31	Novel Sources of Stripe Rust Resistance Identified by Genome-Wide Association Mapping in Ethiopian Durum Wheat (Triticum turgidum ssp. durum). Frontiers in Plant Science, 2017, 8, 774.	1.7	66
32	Sequenceâ€based SNP genotyping in durum wheat. Plant Biotechnology Journal, 2013, 11, 809-817.	4.1	63
33	Validation and characterization of a major QTL affecting leaf ABA concentration in maize. Molecular Breeding, 2005, 15, 291-303.	1.0	59
34	A major QTL for durable leaf rust resistance widely exploited in durum wheat breeding programs maps on the distal region of chromosome arm 7BL. Theoretical and Applied Genetics, 2008, 117, 1225-1240.	1.8	59
35	Carotenoid Pigment Content in Durum Wheat (Triticum turgidum L. var durum): An Overview of Quantitative Trait Loci and Candidate Genes. Frontiers in Plant Science, 2019, 10, 1347.	1.7	59
36	Exploring and exploiting the genetic variation of Fusarium head blight resistance for genomic-assisted breeding in the elite durum wheat gene pool. Theoretical and Applied Genetics, 2019, 132, 969-988.	1.8	57

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37	A panel of elite accessions of durum wheat (Triticum durum Desf.) suitable for association mapping studies. Plant Genetic Resources: Characterisation and Utilisation, 2006, 4, 79-85.	0.4	54
38	Understanding the relationships between genetic and phenotypic structures of a collection of elite durum wheat accessions. Field Crops Research, 2010, 119, 91-105.	2.3	54
39	Multi-Trait, Multi-Environment Genomic Prediction of Durum Wheat With Genomic Best Linear Unbiased Predictor and Deep Learning Methods. Frontiers in Plant Science, 2019, 10, 1311.	1.7	47
40	The Global Durum Wheat Panel (GDP): An International Platform to Identify and Exchange Beneficial Alleles. Frontiers in Plant Science, 2020, 11, 569905.	1.7	44
41	Development of COS-SNP and HRM markers for high-throughput and reliable haplotype-based detection of Lr14a in durum wheat (Triticum durum Desf.). Theoretical and Applied Genetics, 2013, 126, 1077-1101.	1.8	43
42	Two major quantitative trait loci controlling the number of seminal roots in maize co-map with the root developmental genesrtcsandrum1. Journal of Experimental Botany, 2016, 67, 1149-1159.	2.4	40
43	Genome-wide association mapping for grain shape and color traits in Ethiopian durum wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Over	2.3	38
44	Genome-wide association analysis unveils novel QTLs for seminal root system architecture traits in Ethiopian durum wheat. BMC Genomics, 2021, 22, 20.	1.2	33
45	Differential representation of albumins and globulins during grain development in durum wheat and its possible functional consequences. Journal of Proteomics, 2017, 162, 86-98.	1.2	31
46	Nucleotide-binding site (NBS) profiling of genetic diversity in durum wheat. Genome, 2006, 49, 1473-1480.	0.9	26
47	Virulence Phenotypes and Molecular Genotypes in Collections of Puccinia triticina from Italy. Plant Disease, 2010, 94, 420-424.	0.7	26
48	Resistance to Soil-borne cereal mosaic virus in durum wheat is controlled by a major QTL on chromosome arm 2BS and minor loci. Theoretical and Applied Genetics, 2011, 123, 527-544.	1.8	25
49	Asparagine synthetase genes (AsnS1 and AsnS2) in durum wheat: structural analysis and expression under nitrogen stress. Euphytica, 2018, 214, 1.	0.6	21
50	Quantitative trait loci for agronomic traits in tetraploid wheat for enhancing grain yield in Kazakhstan environments. PLoS ONE, 2020, 15, e0234863.	1.1	19
51	Genomic Regions Associated with the Control of Flowering Time in Durum Wheat. Plants, 2020, 9, 1628.	1.6	15
52	Highâ€throughput field phenotyping reveals genetic variation in photosynthetic traits in durum wheat under drought. Plant, Cell and Environment, 2021, 44, 2858-2878.	2.8	12
53	Genome Wide Association Study Uncovers the QTLome for Osmotic Adjustment and Related Drought Adaptive Traits in Durum Wheat. Genes, 2022, 13, 293.	1.0	12
54	Genetic analysis of Soil-Borne Cereal Mosaic Virus response in durum wheat: evidence for the role of the major quantitative trait locus QSbm.ubo-2BS and of minor quantitative trait loci. Molecular Breeding, 2012, 29, 973-988.	1.0	11

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55	Yield of chromosomally engineered durum wheat-Thinopyrum ponticum recombinant lines in a range of contrasting rain-fed environments. Field Crops Research, 2018, 228, 147-157.	2.3	11
56	Genomics of Tolerance to Abiotic Stress in the Triticeae. , 2009, , 481-558.		8
57	Genomic tools for durum wheat breeding: de novo assembly of Svevo transcriptome and SNP discovery in elite germplasm. BMC Genomics, 2019, 20, 278.	1.2	7
58	Monitoring changes of lipid composition in durum wheat during grain development. Journal of Cereal Science, 2021, 97, 103131.	1.8	6
59	Abiotic Stress Response of Near-Isogenic Spring Durum Wheat Lines under Different Sowing Densities. International Journal of Molecular Sciences, 2021, 22, 2053.	1.8	6
60	Genetic variation for aerenchyma and other root anatomical traits in durum wheat (Triticum durum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	5
61	Genetic analysis of novel resistance sources and genome-wide association mapping identified novel QTLs for resistance to Zymoseptoria tritici, the causal agent of septoria tritici blotch in wheat. Journal of Applied Genetics, 2022, 63, 429-445.	1.0	5
62	Sequence-Based Marker Assisted Selection in Wheat. , 2022, , 513-538.		3
63	Genomics Approaches to Dissect the Genetic Basis of Drought Resistance in Durum Wheat. , 2015, , 213-223.		2
64	Molecular Markers and QTL Analysis for Grain Quality Improvement in Wheat. , 2007, , 25-50.		2
65	Back Cover Image. Plant, Cell and Environment, 2021, 44, .	2.8	0