Alain Charcosset

List of Publications by Year in descending order

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109264 128225 4,763 60 35 60 citations g-index h-index papers 69 69 69 4029 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A Large Maize (Zea mays L.) SNP Genotyping Array: Development and Germplasm Genotyping, and Genetic Mapping to Compare with the B73 Reference Genome. PLoS ONE, 2011, 6, e28334.	1.1	523
2	Genetic Architecture of Flowering Time in Maize As Inferred From Quantitative Trait Loci Meta-analysis and Synteny Conservation With the Rice Genome. Genetics, 2004, 168, 2169-2185.	1.2	353
3	Marker-Assisted Introgression of Quantitative Trait Loci. Genetics, 1997, 147, 1469-1485.	1.2	268
4	Maximizing the Reliability of Genomic Selection by Optimizing the Calibration Set of Reference Individuals: Comparison of Methods in Two Diverse Groups of Maize Inbreds (<i>Zea mays</i> L.). Genetics, 2012, 192, 715-728.	1.2	258
5	Maize Adaptation to Temperate Climate: Relationship Between Population Structure and Polymorphism in the Dwarf8 Gene. Genetics, 2006, 172, 2449-2463.	1.2	204
6	Intraspecific variation of recombination rate in maize. Genome Biology, 2013, 14, R103.	13.9	176
7	Maize introduction into Europe: the history reviewed in the light of molecular data. Theoretical and Applied Genetics, 2003, 106, 895-903.	1.8	162
8	Genomic prediction of maize yield across European environmental conditions. Nature Genetics, 2019, 51, 952-956.	9.4	157
9	The Genetic Basis of Heterosis: Multiparental Quantitative Trait Loci Mapping Reveals Contrasted Levels of Apparent Overdominance Among Traits of Agronomical Interest in Maize (<i>Zea mays</i> L.). Genetics, 2012, 190, 795-811.	1.2	146
10	Genome-wide analysis of yield in Europe: allelic effects as functions of drought and heat scenarios. Plant Physiology, 2016, 172, pp.00621.2016.	2.3	140
11	Key Impact of $\langle i \rangle Vgt1 \langle j \rangle$ on Flowering Time Adaptation in Maize: Evidence From Association Mapping and Ecogeographical Information. Genetics, 2008, 178, 2433-2437.	1.2	129
12	Usefulness of Multiparental Populations of Maize (<i>Zea mays</i> L.) for Genome-Based Prediction. Genetics, 2014, 198, 3-16.	1.2	114
13	A European perspective on maize history. Comptes Rendus - Biologies, 2011, 334, 221-228.	0.1	111
14	Relationship between heterosis and heterozygosity at marker loci: a theoretical computation. Theoretical and Applied Genetics, 1991, 81, 571-575.	1.8	94
15	Linkage Disequilibrium with Linkage Analysis of Multiline Crosses Reveals Different Multiallelic QTL for Hybrid Performance in the Flint and Dent Heterotic Groups of Maize. Genetics, 2014, 198, 1717-1734.	1.2	89
16	Recovering Power in Association Mapping Panels with Variable Levels of Linkage Disequilibrium. Genetics, 2014, 197, 375-387.	1.2	89
17	Adaptation of Maize to Temperate Climates: Mid-Density Genome-Wide Association Genetics and Diversity Patterns Reveal Key Genomic Regions, with a Major Contribution of the Vgt2 (ZCN8) Locus. PLoS ONE, 2013, 8, e71377.	1.1	83
18	Genetic diversity within and among maize populations: a comparison between isozyme and nuclear RFLP loci. Theoretical and Applied Genetics, 1998, 96, 577-587.	1.8	76

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19	The effect of population structure on the relationship between heterosis and heterozygosity at marker loci. Theoretical and Applied Genetics, 1994, 89-89, 336-343.	1.8	75
20	Flowering Time in Maize: Linkage and Epistasis at a Major Effect Locus. Genetics, 2012, 190, 1547-1562.	1.2	75
21	Large scale molecular analysis of traditional European maize populations. Relationships with morphological variation. Heredity, 2001, 86, 574-587.	1.2	74
22	Linkage Mapping of 1454 New Maize Candidate Gene Loci. Genetics, 2005, 170, 1957-1966.	1,2	74
23	Association mapping for cold tolerance in two large maize inbred panels. BMC Plant Biology, 2016, 16, 127.	1.6	73
24	Independent introductions and admixtures have contributed to adaptation of European maize and its American counterparts. PLoS Genetics, 2017, 13, e1006666.	1.5	73
25	Out of America: tracing the genetic footprints of the global diffusion of maize. Theoretical and Applied Genetics, 2013, 126, 2671-2682.	1.8	72
26	Relationship between phenotypic and marker distances: theoretical and experimental investigations. Heredity, 1997, 79, 477-483.	1.2	61
27	Reciprocal Genetics: Identifying QTL for General and Specific Combining Abilities in Hybrids Between Multiparental Populations from Two Maize (<i>Zea mays</i> L.) Heterotic Groups. Genetics, 2017, 207, 1167-1180.	1.2	53
28	Predicting genomic selection efficiency to optimize calibration set and to assess prediction accuracy in highly structured populations. Theoretical and Applied Genetics, 2017, 130, 2231-2247.	1.8	49
29	RFLP diversity and relationships among traditional European maize populations. Theoretical and Applied Genetics, 2002, 105, 91-99.	1.8	46
30	Genotyping-by-sequencing and SNP-arrays are complementary for detecting quantitative trait loci by tagging different haplotypes in association studies. BMC Plant Biology, 2019, 19, 318.	1.6	45
31	Usefulness Criterion and Post-selection Parental Contributions in Multi-parental Crosses: Application to Polygenic Trait Introgression. G3: Genes, Genomes, Genetics, 2019, 9, 1469-1479.	0.8	45
32	Disentangling group specific QTL allele effects from genetic background epistasis using admixed individuals in GWAS: An application to maize flowering. PLoS Genetics, 2020, 16, e1008241.	1.5	44
33	Detection of marker–QTL associations by studying change in marker frequencies with selection. Theoretical and Applied Genetics, 2007, 114, 669-681.	1.8	43
34	General and specific combining abilities in a maize (Zea mays L.) test-cross hybrid panel: relative importance of population structure and genetic divergence between parents. Theoretical and Applied Genetics, 2017, 130, 403-417.	1.8	43
35	Genomic selection efficiency and a priori estimation of accuracy in a structured dent maize panel. Theoretical and Applied Genetics, 2019, 132, 81-96.	1.8	42
36	Relationships among maize inbred lines and populations from European and North-American origins as estimated using RFLP markers. Theoretical and Applied Genetics, 1999, 99, 473-480.	1.8	41

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37	Dent and Flint maize diversity panels reveal important genetic potential for increasing biomass production. Theoretical and Applied Genetics, 2014, 127, 2313-2331.	1.8	41
38	Improving Short- and Long-Term Genetic Gain by Accounting for Within-Family Variance in Optimal Cross-Selection. Frontiers in Genetics, 2019, 10, 1006.	1.1	40
39	Evaluation of a DNA pooled-sampling strategy for estimating the RFLP diversity of maize populations. Plant Molecular Biology Reporter, 1999, 17, 123-138.	1.0	39
40	Genotyping-by-sequencing highlights original diversity patterns within a European collection of 1191 maize flint lines, as compared to the maize USDA genebank. Theoretical and Applied Genetics, 2017, 130, 2165-2189.	1.8	39
41	Number and Fitness of Selected Individuals in Marker-Assisted and Phenotypic Recurrent Selection. Crop Science, 2006, 46, 1972-1980.	0.8	38
42	Optimized breeding strategies to harness genetic resources with different performance levels. BMC Genomics, 2020, 21, 349.	1.2	38
43	Mapping of a spontaneous mutation for early flowering time in maize highlights contrasting allelic series at two-linked QTL on chromosome 8. Theoretical and Applied Genetics, 2005, 112, 1-11.	1.8	35
44	Study on Essential Derivation in Maize: III. Selection and Evaluation of a Panel of Single Nucleotide Polymorphism Loci for Use in European and North American Germplasm. Crop Science, 2015, 55, 1170-1180.	0.8	33
45	Sequence analysis of European maize inbred line F2 provides new insights into molecular and chromosomal characteristics of presence/absence variants. BMC Genomics, 2018, 19, 119.	1.2	27
46	Assessment of breeding programs sustainability: application of phenotypic and genomic indicators to a North European grain maize program. Theoretical and Applied Genetics, 2019, 132, 1321-1334.	1.8	26
47	Marker-assisted selection efficiency in multiple connected populations: a simulation study based on the results of a QTL detection experiment in maize. Euphytica, 2008, 161, 71-84.	0.6	24
48	Genomic prediction with a maize collaborative panel: identification of genetic resources to enrich elite breeding programs. Theoretical and Applied Genetics, 2020, 133, 201-215.	1.8	23
49	Revisiting hybrid breeding designs using genomic predictions: simulations highlight the superiority of incomplete factorials between segregating families over topcross designs. Theoretical and Applied Genetics, 2020, 133, 1995-2010.	1.8	20
50	Genomic prediction of hybrid crops allows disentangling dominance and epistasis. Genetics, 2021, 218, .	1.2	20
51	Physiological adaptive traits are a potential allele reservoir for maize genetic progress under challenging conditions. Nature Communications, 2022, 13, .	5.8	19
52	Accounting for Group-Specific Allele Effects and Admixture in Genomic Predictions: Theory and Experimental Evaluation in Maize. Genetics, 2020, 216, 27-41.	1.2	15
53	Diversity and linkage disequilibrium features in a composite public/private dent maize panel: consequences for association genetics as evaluated from a case study using flowering time. Theoretical and Applied Genetics, 2012, 125, 731-747.	1.8	13
54	Efficient ReML inference in variance component mixed models using a Min-Max algorithm. PLoS Computational Biology, 2022, 18, e1009659.	1.5	13

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55	Quantitative trait loci mapping in hybrids between Dent and Flint maize multiparental populations reveals group-specific QTL for silage quality traits with variable pleiotropic effects on yield. Theoretical and Applied Genetics, 2019, 132, 1523-1542.	1.8	12
56	A systems genetics approach reveals environment-dependent associations between SNPs, protein coexpression, and drought-related traits in maize. Genome Research, 2020, 30, 1593-1604.	2.4	10
57	Deciphering the Genetic Diversity of Landraces With High-Throughput SNP Genotyping of DNA Bulks: Methodology and Application to the Maize 50k Array. Frontiers in Plant Science, 2020, 11, 568699.	1.7	9
58	Building a Calibration Set for Genomic Prediction, Characteristics to Be Considered, and Optimization Approaches. Methods in Molecular Biology, 2022, 2467, 77-112.	0.4	8
59	Improving genomic predictions with inbreeding and nonadditive effects in two admixed maize hybrid populations in single and multienvironment contexts. Genetics, 2022, 220, .	1.2	5
60	Estimation of the Relatedness Coefficients from Biallelic Markers, Application in Plant Mating Designs. Biometrics, 2017, 73, 885-894.	0.8	1