

Albrecht E Melchinger

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#	Paper	IF	Citations
313	Genomic and metabolic prediction of complex heterotic traits in hybrid maize. <i>Nature Genetics</i> , 2012 , 44, 217-20	36.3	424
312	Quantitative trait locus (QTL) mapping using different testers and independent population samples in maize reveals low power of QTL detection and large bias in estimates of QTL effects. <i>Genetics</i> , 1998 , 149, 383-403	4	391
311	BLUP for phenotypic selection in plant breeding and variety testing. <i>Euphytica</i> , 2008 , 161, 209-228	2.1	388
310	Wheat genetic diversity trends during domestication and breeding. <i>Theoretical and Applied Genetics</i> , 2005 , 110, 859-64	6	271
309	Bias and Sampling Error of the Estimated Proportion of Genotypic Variance Explained by Quantitative Trait Loci Determined From Experimental Data in Maize Using Cross Validation and Validation With Independent Samples. <i>Genetics</i> , 2000 , 154, 1839-1849	4	270
308	Genome-wide association mapping of leaf metabolic profiles for dissecting complex traits in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8872-7	11.5	260
307	Quantitative trait locus mapping based on resampling in a vast maize testcross experiment and its relevance to quantitative genetics for complex traits. <i>Genetics</i> , 2004 , 167, 485-98	4	212
306	Two high-density AFLP linkage maps of <i>Zea mays</i> L.: analysis of distribution of AFLP markers. <i>Theoretical and Applied Genetics</i> , 1999 , 99, 921-935	6	201
305	Comparison of mixed-model approaches for association mapping. <i>Genetics</i> , 2008 , 178, 1745-54	4	199
304	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.). <i>Genetics</i> , 2012 , 192, 715-28	4	193
303	Population structure and genetic diversity in a commercial maize breeding program assessed with SSR and SNP markers. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 1289-99	6	193
302	Genetic Similarities among Winter Wheat Cultivars Determined on the Basis of RFLPs, AFLPs, and SSRs and Their Use for Predicting Progeny Variance. <i>Crop Science</i> , 1999 , 39, 228-237	2.4	193
301	Genetic diversity in European and Mediterranean faba bean germ plasm revealed by RAPD markers. <i>Theoretical and Applied Genetics</i> , 1995 , 90, 27-32	6	189
300	Novel throughput phenotyping platforms in plant genetic studies. <i>Trends in Plant Science</i> , 2007 , 12, 433-438	6.1	186
299	Effectiveness of genomic prediction of maize hybrid performance in different breeding populations and environments. <i>G3: Genes, Genomes, Genetics</i> , 2012 , 2, 1427-36	3.2	166
298	Comparison of Selection Strategies for Marker-Assisted Backcrossing of a Gene. <i>Crop Science</i> , 1999 , 39, 1295-1301	2.4	158
297	Use of Molecular Markers in Breeding for Oligogenic Disease Resistance. <i>Plant Breeding</i> , 1990 , 104, 1-19	2.4	157

296	Linkage disequilibrium in European elite maize germplasm investigated with SSRs. <i>Theoretical and Applied Genetics</i> , 2005 , 111, 723-30	6	152
295	Genomic predictability of interconnected biparental maize populations. <i>Genetics</i> , 2013 , 194, 493-503	4	142
294	Intraspecific variation of recombination rate in maize. <i>Genome Biology</i> , 2013 , 14, R103	18.3	134
293	Genome properties and prospects of genomic prediction of hybrid performance in a breeding program of maize. <i>Genetics</i> , 2014 , 197, 1343-55	4	125
292	RFLP Mapping in Maize: Quantitative Trait Loci Affecting Testcross Performance of Elite European Flint Lines. <i>Crop Science</i> , 1994 , 34, 378-389	2.4	125
291	Prediction of grain yield using reflectance spectra of canopy and leaves in maize plants grown under different water regimes. <i>Field Crops Research</i> , 2012 , 128, 82-90	5.5	118
290	Genetic Characterization of CIMMYT Inbred Maize Lines and Open Pollinated Populations Using Large Scale Fingerprinting Methods. <i>Crop Science</i> , 2002 , 42, 1832-1840	2.4	110
289	High-throughput non-destructive biomass determination during early plant development in maize under field conditions. <i>Field Crops Research</i> , 2011 , 121, 268-273	5.5	109
288	Quantitative trait loci mapping and the genetic basis of heterosis in maize and rice. <i>Genetics</i> , 2008 , 180, 1707-24	4	106
287	Relationships among Early European Maize Inbreds: II. Comparison of Pedigree and RFLP Data. <i>Crop Science</i> , 1993 , 33, 944-950	2.4	106
286	Genomic prediction of hybrid performance in maize with models incorporating dominance and population specific marker effects. <i>Theoretical and Applied Genetics</i> , 2012 , 125, 1181-94	6	105
285	Validation of Dwarf8 polymorphisms associated with flowering time in elite European inbred lines of maize (<i>Zea mays</i> L.). <i>Theoretical and Applied Genetics</i> , 2005 , 111, 206-17	6	105
284	Relationships among European Barley Germplasm: II. Comparison of RFLP and Pedigree Data. <i>Crop Science</i> , 1994 , 34, 1199-1205	2.4	105
283	Optimizing experimental procedures for quantitative evaluation of crop plant performance in high throughput phenotyping systems. <i>Frontiers in Plant Science</i> , 2014 , 5, 770	6.2	104
282	Mapping and characterization of quantitative trait loci affecting resistance against second-generation European corn borer in maize with the aid of RFLPs. <i>Heredity</i> , 1993 , 70, 648-659	3.6	104
281	Genetic diversity for restriction fragment length polymorphisms and heterosis for two diallel sets of maize inbreds. <i>Theoretical and Applied Genetics</i> , 1990 , 80, 488-96	6	101
280	Dissection of the genetic basis of heterosis in an elite maize hybrid by QTL mapping in an immortalized F2 population. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 333-40	6	99
279	New insights into the genetics of in vivo induction of maternal haploids, the backbone of doubled haploid technology in maize. <i>Genetics</i> , 2012 , 190, 781-93	4	98

278	Use of SSRs for establishing heterotic groups in subtropical maize. <i>Theoretical and Applied Genetics</i> , 2003 , 107, 947-57	6	97
277	QTL Mapping in Testcrosses of European Flint Lines of Maize: I. Comparison of Different Testers for Forage Yield Traits. <i>Crop Science</i> , 1997 , 37, 921-931	2.4	95
276	The role of epistasis in the manifestation of heterosis: a systems-oriented approach. <i>Genetics</i> , 2007 , 177, 1815-25	4	88
275	Selection theory for marker-assisted backcrossing. <i>Genetics</i> , 2005 , 170, 909-17	4	85
274	Usefulness of multiparental populations of maize (<i>Zea mays</i> L.) for genome-based prediction. <i>Genetics</i> , 2014 , 198, 3-16	4	84
273	Precision phenotyping of biomass accumulation in triticale reveals temporal genetic patterns of regulation. <i>Scientific Reports</i> , 2013 , 3, 2442	4.9	84
272	Identification of heterotic metabolite QTL in <i>Arabidopsis thaliana</i> RIL and IL populations. <i>Plant Journal</i> , 2009 , 59, 777-88	6.9	84
271	Phylogenetic relationships between cultivated and wild species of the genus <i>Beta</i> revealed by DNA "fingerprinting". <i>Theoretical and Applied Genetics</i> , 1993 , 86, 449-57	6	84
270	Genomic prediction of northern corn leaf blight resistance in maize with combined or separated training sets for heterotic groups. <i>G3: Genes, Genomes, Genetics</i> , 2013 , 3, 197-203	3.2	83
269	Trends in genetic diversity among European maize cultivars and their parental components during the past 50 years. <i>Theoretical and Applied Genetics</i> , 2005 , 111, 838-45	6	83
268	Transcriptome-based distance measures for grouping of germplasm and prediction of hybrid performance in maize. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 441-50	6	82
267	QTL analysis of early stage heterosis for biomass in <i>Arabidopsis</i> . <i>Theoretical and Applied Genetics</i> , 2010 , 120, 227-37	6	80
266	Genetic structure and diversity of European flint maize populations determined with SSR analyses of individuals and bulks. <i>Theoretical and Applied Genetics</i> , 2005 , 111, 906-13	6	78
265	Efficiency of Managed-Stress Screening of Elite Maize Hybrids under Drought and Low Nitrogen for Yield under Rainfed Conditions in Southern Africa. <i>Crop Science</i> , 2012 , 52, 1011-1020	2.4	76
264	Genetic Diversity in CIMMYT Nontemperate Maize Germplasm: Landraces, Open Pollinated Varieties, and Inbred Lines. <i>Crop Science</i> , 2008 , 48, 617-624	2.4	76
263	Quantitative trait Loci mapping of resistance to sugarcane mosaic virus in maize. <i>Phytopathology</i> , 1999 , 89, 660-7	3.8	75
262	Gametophytic and zygotic selection leads to segregation distortion through in vivo induction of a maternal haploid in maize. <i>Journal of Experimental Botany</i> , 2013 , 64, 1083-96	7	73
261	Heterosis for biomass yield and related traits in five hybrids of <i>Arabidopsis thaliana</i> L. Heynh. <i>Heredity</i> , 2003 , 91, 36-42	3.6	73

260	Genetic basis of heterosis for growth-related traits in Arabidopsis investigated by testcross progenies of near-isogenic lines reveals a significant role of epistasis. <i>Genetics</i> , 2007 , 177, 1827-37	4	72
259	Rapid and accurate identification of in vivo-induced haploid seeds based on oil content in maize. <i>Scientific Reports</i> , 2013 , 3, 2129	4.9	71
258	QTL Mapping in Testcrosses of Flint Lines of Maize: III. Comparison across Populations for Forage Traits. <i>Crop Science</i> , 1998 , 38, 1278-1289	2.4	71
257	Genetic Diversity among CIMMYT Maize Inbred Lines Investigated with SSR Markers: II. Subtropical, Tropical Midaltitude, and Highland Maize Inbred Lines and their Relationships with Elite U.S. and European Maize. <i>Crop Science</i> , 2005 , 45, 2573-2582	2.4	69
256	High-resolution mapping of loci conferring resistance to sugarcane mosaic virus in maize using RFLP, SSR, and AFLP markers. <i>Molecular Genetics and Genomics</i> , 1999 , 261, 574-81		68
255	Genetic diversity analysis of elite European maize (<i>Zea mays</i> L.) inbred lines using AFLP, SSR, and SNP markers reveals ascertainment bias for a subset of SNPs. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 133-41	6	67
254	Genetic diversity in <i>Arabidopsis thaliana</i> L. Heynh. investigated by cleaved amplified polymorphic sequence (CAPS) and inter-simple sequence repeat (ISSR) markers. <i>Molecular Ecology</i> , 2002 , 11, 495-505	5.7	67
253	Beyond Genomic Prediction: Combining Different Types of Data Can Improve Prediction of Hybrid Performance in Maize. <i>Genetics</i> , 2018 , 208, 1373-1385	4	66
252	Genetic diversity for RFLPs in European maize inbreds : II. Relation to performance of hybrids within versus between heterotic groups for forage traits. <i>Theoretical and Applied Genetics</i> , 1992 , 84, 672-81	6	65
251	Development of Heterotic Groups in Triticale. <i>Crop Science</i> , 2010 , 50, 584-590	2.4	64
250	Relationships among Early European Maize Inbreds: IV. Genetic Diversity Revealed with AFLP Markers and Comparison with RFLP, RAPD, and Pedigree Data. <i>Crop Science</i> , 2000 , 40, 783-791	2.4	64
249	Genetic diversity among progenitors and elite lines from the Iowa Stiff Stalk Synthetic (BSSS) maize population: comparison of allozyme and RFLP data. <i>Theoretical and Applied Genetics</i> , 1991 , 83, 97-107	6	64
248	Relationships among Early European Maize Inbreds: I. Genetic Diversity among Flint and Dent Lines Revealed by RFLPs. <i>Crop Science</i> , 1992 , 32, 1301-1309	2.4	64
247	Epistasis in an Elite Maize Hybrid and Choice of Generation for Inbred Line Development. <i>Crop Science</i> , 1995 , 35, 1272-1281	2.4	63
246	Comparison of mixed-model approaches for association mapping in rapeseed, potato, sugar beet, maize, and Arabidopsis. <i>BMC Genomics</i> , 2009 , 10, 94	4.5	62
245	Doubled Haploids in Tropical Maize: I. Effects of Inducers and Source Germplasm on in vivo Haploid Induction Rates. <i>Crop Science</i> , 2011 , 51, 1498-1506	2.4	62
244	High congruency of QTL positions for heterosis of grain yield in three crosses of maize. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 321-32	6	62
243	Prediction of single-cross hybrid performance for grain yield and grain dry matter content in maize using AFLP markers associated with QTL. <i>Theoretical and Applied Genetics</i> , 2006 , 113, 1037-47	6	62

242	Comparison of whole-genome prediction models for traits with contrasting genetic architecture in a diversity panel of maize inbred lines. <i>BMC Genomics</i> , 2012 , 13, 452	4.5	61
241	Extent and genome-wide distribution of linkage disequilibrium in commercial maize germplasm. <i>Theoretical and Applied Genetics</i> , 2011 , 123, 11-20	6	61
240	Grouping of accessions of Mexican races of maize revisited with SSR markers. <i>Theoretical and Applied Genetics</i> , 2006 , 113, 177-85	6	61
239	Population genetic simulation and data analysis with Plabsoft. <i>Euphytica</i> , 2008 , 161, 133-139	2.1	60
238	Variation of DNA fingerprints among accessions within maize inbred lines and implications for identification of essentially derived varieties.. <i>Molecular Breeding</i> , 2002 , 10, 181-191	3.4	60
237	QTL Mapping in Testcrosses of European Flint Lines of Maize: II. Comparison of Different Testers for Forage Quality Traits. <i>Crop Science</i> , 1997 , 37, 1913-1922	2.4	59
236	No Evidence for Epistasis in Hybrid and Per Se Performance of Elite European Flint Maize Inbreds from Generation Means and QTL Analyses. <i>Crop Science</i> , 2005 , 45, 2605-2613	2.4	59
235	Linkage disequilibrium with linkage analysis of multiline crosses reveals different multiallelic QTL for hybrid performance in the flint and dent heterotic groups of maize. <i>Genetics</i> , 2014 , 198, 1717-34	4	58
234	Recovering power in association mapping panels with variable levels of linkage disequilibrium. <i>Genetics</i> , 2014 , 197, 375-87	4	58
233	Production of haploids and doubled haploids in maize. <i>Methods in Molecular Biology</i> , 2012 , 877, 161-72	1.4	58
232	Relationship between European corn borer resistance and concentration of mycotoxins produced by <i>Fusarium</i> spp. in grains of transgenic Bt maize hybrids, their isogenic counterparts, and commercial varieties. <i>Plant Breeding</i> , 2002 , 121, 146-154	2.4	58
231	Optimizing the allocation of resources for genomic selection in one breeding cycle. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 2835-48	6	57
230	Overview of Heterosis and Heterotic Groups in Agronomic Crops. <i>CSSA Special Publication - Crop Science Society of America</i> , 2015 , 29-44		57
229	In an elite cross of maize a major quantitative trait locus controls one-fourth of the genetic variation for grain yield. <i>Theoretical and Applied Genetics</i> , 1995 , 90, 415-24	6	57
228	Molecular marker-based prediction of hybrid performance in maize using unbalanced data from multiple experiments with factorial crosses. <i>Theoretical and Applied Genetics</i> , 2009 , 118, 741-51	6	56
227	Analysis of a triple testcross design with recombinant inbred lines reveals a significant role of epistasis in heterosis for biomass-related traits in Arabidopsis. <i>Genetics</i> , 2007 , 175, 2009-17	4	56
226	Genome-wide association mapping of flowering time and northern corn leaf blight (<i>Setosphaeria turcica</i>) resistance in a vast commercial maize germplasm set. <i>BMC Plant Biology</i> , 2012 , 12, 56	5.3	55
225	Prospects for Hybrid Breeding in Winter Triticale: I. Heterosis and Combining Ability for Agronomic Traits in European Elite Germplasm. <i>Crop Science</i> , 2005 , 45, 1476-1482	2.4	55

224	Marker-Assisted Backcrossing for Simultaneous Introgression of Two Genes. <i>Crop Science</i> , 2001 , 41, 1716-1725	55	
223	Domestication and Breeding of <i>Jatropha curcas</i> L. <i>Trends in Plant Science</i> , 2016 , 21, 1045-1057	13.1	54
222	Omics-based hybrid prediction in maize. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 1927-1939	6	54
221	Association mapping for chilling tolerance in elite flint and dent maize inbred lines evaluated in growth chamber and field experiments. <i>Plant, Cell and Environment</i> , 2013 , 36, 1871-87	8.4	53
220	Unlocking the genetic diversity of maize landraces with doubled haploids opens new avenues for breeding. <i>PLoS ONE</i> , 2013 , 8, e57234	3.7	53
219	Prediction of hybrid performance in maize using molecular markers and joint analyses of hybrids and parental inbreds. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 451-61	6	53
218	Genetic basis of resistance to sugarcane mosaic virus in European maize germplasm. <i>Theoretical and Applied Genetics</i> , 1998 , 96, 1151-1161	6	53
217	Optimum breeding strategies using genomic selection for hybrid breeding in wheat, maize, rye, barley, rice and triticale. <i>Theoretical and Applied Genetics</i> , 2016 , 129, 1901-13	6	53
216	Doubled haploid technology for line development in maize: technical advances and prospects. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 3227-3243	6	52
215	Correlation between parental transcriptome and field data for the characterization of heterosis in <i>Zea mays</i> L. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 401-13	6	52
214	Heterosis for biomass-related traits in <i>Arabidopsis</i> investigated by quantitative trait loci analysis of the triple testcross design with recombinant inbred lines. <i>Genetics</i> , 2007 , 177, 1839-50	4	52
213	Genetic diversity in European winter triticale determined with SSR markers and coancestry coefficient. <i>Theoretical and Applied Genetics</i> , 2004 , 108, 1385-91	6	52
212	Genetic diversity of maize inbred lines within and among heterotic groups revealed by RFLPs. <i>Theoretical and Applied Genetics</i> , 1992 , 84, 17-25	6	52
211	RFLP analyses of early-maturing European maize germ plasm : I. Genetic diversity among flint and dent inbreds. <i>Theoretical and Applied Genetics</i> , 1992 , 83, 1003-12	6	52
210	High-density genotyping: an overkill for QTL mapping? Lessons learned from a case study in maize and simulations. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 2563-74	6	51
209	Multi-trait association mapping in sugar beet (<i>Beta vulgaris</i> L.). <i>Theoretical and Applied Genetics</i> , 2008 , 117, 947-54	6	50
208	Re-evaluation of the prospects of marker-assisted selection for improving insect resistance against <i>Diatraea</i> spp. in tropical maize by cross validation and independent validation. <i>Theoretical and Applied Genetics</i> , 2001 , 103, 1059-1067	6	50
207	Quantifying novel sequence variation and selective advantage in synthetic hexaploid wheats and their backcross-derived lines using SSR markers. <i>Molecular Breeding</i> , 2005 , 15, 1-10	3.4	49

206	Genetic diversity in European perennial ryegrass cultivars investigated with RAPD markers. <i>Plant Breeding</i> , 2005 , 124, 161-166	2.4	48
205	Comparison of Linkage Disequilibrium in Elite European Maize Inbred Lines using AFLP and SSR Markers. <i>Molecular Breeding</i> , 2006 , 17, 217-226	3.4	47
204	Patterns of molecular and phenotypic diversity in pearl millet [<i>Pennisetum glaucum</i> (L.) R. Br.] from West and Central Africa and their relation to geographical and environmental parameters. <i>BMC Plant Biology</i> , 2010 , 10, 216	5.3	46
203	Association mapping for cold tolerance in two large maize inbred panels. <i>BMC Plant Biology</i> , 2016 , 16, 127	5.3	46
202	Genetic Variation for Resistance to Ear Rots and Mycotoxins Contamination in Early European Maize Inbred Lines. <i>Crop Science</i> , 2009 , 49, 2019-2028	2.4	44
201	Genetic Diversity for RFLPs in European Maize Inbreds: I. Relation to Performance of Flint ? Dent Crosses for Forage Traits. <i>Crop Science</i> , 1992 , 32, 895-902	2.4	44
200	The Genetic Basis of Haploid Induction in Maize Identified with a Novel Genome-Wide Association Method. <i>Genetics</i> , 2016 , 202, 1267-76	4	43
199	QTL mapping for European corn borer resistance (<i>Ostrinia nubilalis</i> Hb.), agronomic and forage quality traits of testcross progenies in early-maturing European maize (<i>Zea mays</i> L.) germplasm. <i>Theoretical and Applied Genetics</i> , 2004 , 108, 1545-54	6	43
198	In Vivo Haploid Induction in Maize: Identification of Haploid Seeds by Their Oil Content. <i>Crop Science</i> , 2014 , 54, 1497-1504	2.4	42
197	Strategies to Subdivide a Target Population of Environments: Results from the CIMMYT-Led Maize Hybrid Testing Programs in Africa. <i>Crop Science</i> , 2012 , 52, 2143-2152	2.4	42
196	QTL analyses of complex traits with cross validation, bootstrapping and other biometric methods. <i>Euphytica</i> , 2004 , 137, 1-11	2.1	42
195	Molecular mapping and gene action of Scm1 and Scm2, two major QTL contributing to SCMV resistance in maize. <i>Plant Breeding</i> , 2000 , 119, 299-303	2.4	42
194	Accuracy of Genomic Prediction in Synthetic Populations Depending on the Number of Parents, Relatedness, and Ancestral Linkage Disequilibrium. <i>Genetics</i> , 2017 , 205, 441-454	4	41
193	Effect of source germplasm and season on the in vivo haploid induction rate in tropical maize. <i>Euphytica</i> , 2011 , 180, 219-226	2.1	41
192	Comparative QTL mapping of resistance to <i>Ustilago maydis</i> across four populations of European flint-maize. <i>Theoretical and Applied Genetics</i> , 1998 , 97, 1321-1330	6	41
191	Power to detect higher-order epistatic interactions in a metabolic pathway using a new mapping strategy. <i>Genetics</i> , 2007 , 176, 563-70	4	41
190	QTL mapping of Sclerotinia midstalk-rot resistance in sunflower. <i>Theoretical and Applied Genetics</i> , 2004 , 109, 1474-84	6	40
189	Hybrid performance and heterosis in spring bread wheat, and their relations to SSR-based genetic distances and coefficients of parentage. <i>Euphytica</i> , 2005 , 144, 51-59	2.1	40

188	Haploid Fertility in Temperate and Tropical Maize Germplasm. <i>Crop Science</i> , 2012 , 52, 623-630	2.4	39
187	Selection Strategy for Sorghum Targeting Phosphorus-limited Environments in West Africa: Analysis of Multi-environment Experiments. <i>Crop Science</i> , 2012 , 52, 2517-2527	2.4	39
186	Congruency of Quantitative Trait Loci Detected for Agronomic Traits in Testcrosses of Five Populations of European Maize. <i>Crop Science</i> , 2004 , 44, 114-124	2.4	39
185	Colocalization of QTL for Gibberella Ear Rot Resistance and Low Mycotoxin Contamination in Early European Maize. <i>Crop Science</i> , 2011 , 51, 1935-1945	2.4	38
184	Optimum prediction of three-way crosses from single crosses in forage maize (<i>Zea mays</i> L.). <i>Theoretical and Applied Genetics</i> , 1987 , 74, 339-45	6	38
183	Fine mapping of qhir8 affecting in vivo haploid induction in maize. <i>Theoretical and Applied Genetics</i> , 2015 , 128, 2507-15	6	37
182	Development of RGA-CAPS markers and genetic mapping of candidate genes for sugarcane mosaic virus resistance in maize. <i>Theoretical and Applied Genetics</i> , 2002 , 105, 355-363	6	37
181	QTL mapping of stalk bending strength in a recombinant inbred line maize population. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 2257-66	6	36
180	REML-Based Diallel Analysis. <i>Crop Science</i> , 2011 , 51, 470-478	2.4	36
179	Genetic Diversity for RFLPs in European Maize Inbreds. <i>Plant Breeding</i> , 1993 , 111, 217-226	2.4	36
178	Genetic similarity among European winter triticale elite germplasms assessed with AFLP and comparisons with SSR and pedigree data. <i>Plant Breeding</i> , 2005 , 124, 154-160	2.4	35
177	Identification by suppression subtractive hybridization of genes that are differentially expressed between near-isogenic maize lines in association with sugarcane mosaic virus resistance. <i>Molecular Genetics and Genomics</i> , 2005 , 273, 450-61	3.1	35
176	QTLs for resistance to <i>Setosphaeria turcica</i> in an early maturing Dent/flint maize population. <i>Theoretical and Applied Genetics</i> , 1999 , 99, 649-55	6	35
175	Broadening the genetic base of European maize heterotic pools with US Cornbelt germplasm using field and molecular marker data. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 301-10	6	34
174	Molecular marker assisted broadening of the Central European heterotic groups in rye with Eastern European germplasm. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 291-9	6	34
173	Molecular genetic diversity within and among German ecotypes in comparison to European perennial ryegrass cultivars. <i>Plant Breeding</i> , 2005 , 124, 257-262	2.4	34
172	Dent and Flint maize diversity panels reveal important genetic potential for increasing biomass production. <i>Theoretical and Applied Genetics</i> , 2014 , 127, 2313-31	6	33
171	Mapping quantitative trait loci for freezing tolerance in a recombinant inbred line population of <i>Arabidopsis thaliana</i> accessions Tenela and C24 reveals REVEILLE1 as negative regulator of cold acclimation. <i>Plant, Cell and Environment</i> , 2013 , 36, 1256-67	8.4	33

170	QTL mapping of resistance to <i>Sporisorium reilianum</i> in maize. <i>Theoretical and Applied Genetics</i> , 1999 , 99, 593-8	6	33
169	Development and Validation of Red Root Marker-Based Haploid Inducers in Maize. <i>Crop Science</i> , 2016 , 56, 1678-1688	2.4	33
168	Optimum design of family structure and allocation of resources in association mapping with lines from multiple crosses. <i>Heredity</i> , 2013 , 110, 71-9	3.6	32
167	Genetic Diversity and Relationships of Wheat Landraces from Oman Investigated with SSR Markers. <i>Genetic Resources and Crop Evolution</i> , 2006 , 53, 1351-1360	2	32
166	Evaluation of Near Infra-red Reflectance Spectroscopy for Predicting Grain and Stover Quality Traits in Maize. <i>Plant Breeding</i> , 1986 , 97, 20-29	2.4	32
165	Trends in genetic variance components during 30 years of hybrid maize breeding at the University of Hohenheim. <i>Plant Breeding</i> , 2008 , 127, 446-451	2.4	31
164	Near-infrared spectroscopy on combine harvesters to measure maize grain dry matter content and quality parameters. <i>Plant Breeding</i> , 2006 , 125, 591-595	2.4	31
163	QTL mapping of resistance to <i>Sclerotinia</i> midstalk rot in RIL of sunflower population NDBLOsSel x CM625. <i>Theoretical and Applied Genetics</i> , 2005 , 110, 1490-8	6	31
162	The length of the intact donor chromosome segment around a target gene in marker-assisted backcrossing. <i>Genetics</i> , 2001 , 157, 1343-56	4	31
161	Colchicine Alternatives for Chromosome Doubling in Maize Haploids for Doubled-Haploid Production. <i>Crop Science</i> , 2016 , 56, 559-569	2.4	31
160	Breeding maize as biogas substrate in Central Europe: I. Quantitative-genetic parameters for testcross performance. <i>Theoretical and Applied Genetics</i> , 2012 , 124, 971-80	6	30
159	Development of in vivo haploid inducers for tropical maize breeding programs. <i>Euphytica</i> , 2012 , 185, 481-490	2.1	30
158	Hybrid maize breeding with doubled haploids: I. One-stage versus two-stage selection for testcross performance. <i>Theoretical and Applied Genetics</i> , 2006 , 112, 903-12	6	30
157	A new test for family-based association mapping with inbred lines from plant breeding programs. <i>Theoretical and Applied Genetics</i> , 2006 , 113, 1121-30	6	30
156	Identification and validation of QTL for <i>Sclerotinia</i> midstalk rot resistance in sunflower by selective genotyping. <i>Theoretical and Applied Genetics</i> , 2005 , 111, 233-42	6	30
155	Prediction of single-cross hybrid performance in maize using haplotype blocks associated with QTL for grain yield. <i>Theoretical and Applied Genetics</i> , 2007 , 114, 1345-55	6	29
154	Expectation of means and variances of testcrosses produced from F2 and backcross individuals and their selfed progenies. <i>Heredity</i> , 1987 , 59, 105-115	3.6	29
153	Characterization of Sudanese pearl millet germplasm for agro-morphological traits and grain nutritional values. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2014 , 12, 35-47	1	28

152	Association analysis of photoperiodic flowering time genes in west and central African sorghum [<i>Sorghum bicolor</i> (L.) Moench]. <i>BMC Plant Biology</i> , 2012 , 12, 32	5.3	28
151	Association mapping in multiple segregating populations of sugar beet (<i>Beta vulgaris</i> L.). <i>Theoretical and Applied Genetics</i> , 2008 , 117, 1167-79	6	28
150	Congruency of Quantitative Trait Loci Detected for Agronomic Traits in Testcrosses of Five Populations of European Maize. <i>Crop Science</i> , 2004 , 44, 114	2.4	28
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147	Chilling tolerance of Central European maize lines and their factorial crosses. <i>Annals of Botany</i> , 2007 , 100, 1315-21	4.1	27
146	Influence of genetic background and heterozygosity on meiotic recombination in <i>Arabidopsis thaliana</i> . <i>Genome</i> , 2001 , 44, 971-8	2.4	27
145	The Use of DNA Fingerprinting in Ecological Studies of <i>Phragmites australis</i> (Cav.) Trin. ex Steudel. <i>Botanica Acta</i> , 1994 , 107, 237-242		27
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140	Genome-wide meta-analysis of maize heterosis reveals the potential role of additive gene expression at pericentromeric loci. <i>BMC Plant Biology</i> , 2014 , 14, 88	5.3	25
139	Partial least squares regression, support vector machine regression, and transcriptome-based distances for prediction of maize hybrid performance with gene expression data. <i>Theoretical and Applied Genetics</i> , 2012 , 124, 825-33	6	25
138	Genetic diversity of Sudanese pearl millet (<i>Pennisetum glaucum</i> (L.) R. Br.) landraces as revealed by SSR markers, and relationship between genetic and agro-morphological diversity. <i>Genetic Resources and Crop Evolution</i> , 2015 , 62, 579-591	2	25
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135	Metabolic robustness in young roots underpins a predictive model of maize hybrid performance in the field. <i>Plant Journal</i> , 2017 , 90, 319-329	6.9	24

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133	Kinetics of methane fermentation yield in biogas reactors: Genetic variation and association with chemical composition in maize. <i>Biomass and Bioenergy</i> , 2012 , 37, 132-141	5.3	24
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130	Unraveling epistasis with triple testcross progenies of near-isogenic lines. <i>Genetics</i> , 2009 , 181, 247-57	4	24
129	Prediction of testcross means and variances among F3 progenies of F1 crosses from testcross means and genetic distances of their parents in maize. <i>Theoretical and Applied Genetics</i> , 1998 , 96, 503-12 ⁶		24
128	Hybrid maize breeding with doubled haploids: II. Optimum type and number of testers in two-stage selection for general combining ability. <i>Theoretical and Applied Genetics</i> , 2007 , 114, 393-402	6	24
127	Hybrid maize breeding with doubled haploids: III. Efficiency of early testing prior to doubled haploid production in two-stage selection for testcross performance. <i>Theoretical and Applied Genetics</i> , 2007 , 115, 519-27	6	24
126	Genetic Variation among Inbred Lines and Testcrosses of Maize for Early Growth Parameters and Their Relationship to Final Dry Matter Yield. <i>Crop Science</i> , 2012 , 52, 1084-1092	2.4	23
125	Identification of Essentially Derived Varieties Obtained from Biparental Crosses of Homozygous Lines: II. Morphological Distances and Heterosis in Comparison with Simple Sequence Repeat and Amplified Fragment Length Polymorphism Data in Maize. <i>Crop Science</i> , 2005 , 45, 1132-1140	2.4	23
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119	Genomic selection in biparental populations: assessment of parameters for optimum estimation set design. <i>Plant Breeding</i> , 2015 , 134, 623-630	2.4	22
118	Comparative Quantitative Trait Loci Mapping for Gibberella Ear Rot Resistance and Reduced Deoxynivalenol Contamination across Connected Maize Populations. <i>Crop Science</i> , 2012 , 52, 32-43	2.4	22
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108	Molecular Genetic Diversity among Progenitors and Derived Elite Lines of BSSS and BSCB1 Maize Populations. <i>Crop Science</i> , 2003 , 43, 474	2.4	21
107	Genome-wide association study to identify genomic regions influencing spontaneous fertility in maize haploids. <i>Euphytica</i> , 2019 , 215, 138	2.1	20
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105	Temporal changes in allele frequencies in two European F(2) flint maize populations under modified recurrent full-sib selection. <i>Theoretical and Applied Genetics</i> , 2007 , 114, 765-76	6	19
104	Potential causes of linkage disequilibrium in a European maize breeding program investigated with computer simulations. <i>Theoretical and Applied Genetics</i> , 2007 , 115, 529-36	6	19
103	Hybrid maize breeding with doubled haploids. IV. Number versus size of crosses and importance of parental selection in two-stage selection for testcross performance. <i>Theoretical and Applied Genetics</i> , 2008 , 117, 251-60	6	19
102	Prospects for hybrid breeding in winter triticale: II. Relationship between parental genetic distance and specific combining ability. <i>Plant Breeding</i> , 2006 , 125, 331-336	2.4	19
101	Two chromosome segments confer multiple potyvirus resistance in maize. <i>Plant Breeding</i> , 2006 , 125, 352-356	2.4	19
100	Genetic diversity in cornsalad (<i>Valerianella locusta</i>) and related species as determined by AFLP markers. <i>Plant Breeding</i> , 2004 , 123, 460-466	2.4	19
99	Identification of Essentially Derived Varieties Obtained from Biparental Crosses of Homozygous Lines: I. Simple Sequence Repeat Data from Maize Inbreds. <i>Crop Science</i> , 2005 , 45, 1120-1131	2.4	19

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94	Identification of essentially derived varieties with molecular markers: an approach based on statistical test theory and computer simulations. <i>Theoretical and Applied Genetics</i> , 2005 , 111, 598-608	6	18
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90	Comparison of the observed with the simulated distributions of the parental genome contribution in two marker-assisted backcross programs in rice. <i>Theoretical and Applied Genetics</i> , 2008 , 116, 739-44	6	17
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88	Discovery of beneficial haplotypes for complex traits in maize landraces. <i>Nature Communications</i> , 2020 , 11, 4954	17.4	17
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85	Effect of N supply on stalk quality in maize hybrids. <i>Field Crops Research</i> , 2010 , 118, 208-214	5.5	16
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83	Transcriptome-based prediction of hybrid performance with unbalanced data from a maize breeding programme. <i>Plant Breeding</i> , 2017 , 136, 331-337	2.4	15
82	Testcross performance of doubled haploid lines from European flint maize landraces is promising for broadening the genetic base of elite germplasm. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 1897-1908	6	15
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80	Optimizing Resource Allocation for Multistage Selection in Plant Breeding with R Package Selectiongain. <i>Crop Science</i> , 2014 , 54, 1413-1418	2.4	14
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78	Optimum allocation of resources for QTL detection using a nested association mapping strategy in maize. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 553-61	6	14
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68	Mapping of QTL for resistance to first and second generation of European corn borer using an integrated SNP and SSR linkage map. <i>Euphytica</i> , 2012 , 183, 197-206	2.1	12
67	Population structure in sorghum accessions from West Africa differing in race and maturity class. <i>Genetica</i> , 2011 , 139, 453-63	1.5	12
66	Impact of Genetic Divergence on the Ratio of Variance Due to Specific vs. General Combining Ability in Winter Triticale. <i>Crop Science</i> , 2009 , 49, 2119-2122	2.4	12
65	Quality assessment of rapeseed accessions by means of near-infrared spectroscopy on combine harvesters. <i>Plant Breeding</i> , 2007 , 126, 329-330	2.4	12
64	Concentration of moniliformin produced by Fusarium species in grains of transgenic Bt maize hybrids compared to their isogenic counterparts and commercial varieties under European corn borer pressure. <i>Plant Breeding</i> , 2003 , 122, 322-327	2.4	12
63	Optimal allocation of resources in evaluating current sunflower inbred lines for resistance to Sclerotinia. <i>Plant Breeding</i> , 1999 , 118, 157-160	2.4	12

62	Dissection of a major QTL qhir1 conferring maternal haploid induction ability in maize. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 1113-1122	6	11
61	Shrinkage estimation of the genomic relationship matrix can improve genomic estimated breeding values in the training set. <i>Theoretical and Applied Genetics</i> , 2015 , 128, 693-703	6	11
60	The Plabsoft database: a comprehensive database management system for integrating phenotypic and genomic data in academic and commercial plant breeding programs. <i>Euphytica</i> , 2008 , 161, 173-179	2.1	11
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58	Comparison of linkage maps from F2 and three times intermated generations in two populations of European flint maize (<i>Zea mays</i> L.). <i>Theoretical and Applied Genetics</i> , 2006 , 113, 857-66	6	11
57	Mean, genetic variance, and usefulness of selfing progenies from intra- and inter-pool crosses in faba beans (<i>Vicia faba</i> L.) and their prediction from parental parameters. <i>Theoretical and Applied Genetics</i> , 1999 , 98, 569-580	6	11
56	Economic Aspects of Breeding for Yield and Quality Traits in Forage Maize. <i>Plant Breeding</i> , 1994 , 112, 110-119	2.4	11
55	Haploid male fertility and spontaneous chromosome doubling evaluated in a diallel and recurrent selection experiment in maize. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 2273-2284	6	10
54	Optimum allocation of test resources and comparison of breeding strategies for hybrid wheat. <i>Theoretical and Applied Genetics</i> , 2014 , 127, 2117-26	6	10
53	Prediction of deoxynivalenol and zearalenone concentrations in <i>Fusarium graminearum</i> inoculated backcross populations of maize by symptom rating and near-infrared spectroscopy. <i>Plant Breeding</i> , 2015 , 134, 529-534	2.4	10
52	Genomic prediction of dichotomous traits with Bayesian logistic models. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 1133-43	6	10
51	Genetic Variation in Testcrosses and Relationship between Line per se and Testcross Performance for Resistance to Gibberella Ear Rot in Maize. <i>Crop Science</i> , 2010 , 50, 1691-1696	2.4	10
50	In Vivo Haploid Induction in Maize: Comparison of Different Testing Regimes for Measuring Haploid Induction Rates. <i>Crop Science</i> , 2016 , 56, 1127-1135	2.4	10
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48	Early diagnosis of ploidy status in doubled haploid production of maize by stomata length and flow cytometry measurements. <i>Plant Breeding</i> , 2019 , 138, 266-276	2.4	9
47	Controlling Misclassification Rates in Identification of Haploid Seeds from Induction Crosses in Maize with High-Oil Inducers. <i>Crop Science</i> , 2015 , 55, 1076-1086	2.4	9
46	Relationship of Line per se and Testcross Performance for Grain Yield of Tropical Maize in Drought and Well-Watered Trials. <i>Crop Science</i> , 2013 , 53, 1228-1236	2.4	9
45	Doubled haploids in tropical maize: II. Quantitative genetic parameters for testcross performance. <i>Euphytica</i> , 2012 , 185, 453-463	2.1	9

44	High-density linkage mapping of yield components and epistatic interactions in maize with doubled haploid lines from four crosses. <i>Molecular Breeding</i> , 2013 , 32, 533-546	3.4	9
43	Targeted BSA mapping of Scmv1 and Scmv2 conferring resistance to SCMV using PstI/MseI compared with EcoRI/MseI AFLP markers. <i>Plant Breeding</i> , 2004 , 123, 434-437	2.4	9
42	Gene stacking strategies with doubled haploids derived from biparental crosses: theory and simulations assuming a finite number of loci. <i>Theoretical and Applied Genetics</i> , 2011 , 123, 1269-79	6	8
41	Determination of chemical composition and nutritional attributes of silage corn hybrids by near-infrared spectroscopy on chopper: evaluation of traits, sample presentation systems and calibration transferability. <i>Plant Breeding</i> , 2007 , 126, 521-526	2.4	8
40	Prospects for celeriac (<i>Apium graveolens</i> var. <i>rapaceum</i>) improvement by using genetic resources of <i>Apium</i> , as determined by AFLP markers and morphological characterization. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2004 , 2, 189-198	1	8
39	Efficient genetic value prediction using incomplete omics data. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 1211-1222	6	7
38	Progress for testcross performance within the flint heterotic pool of a public maize breeding program since the onset of hybrid breeding. <i>Euphytica</i> , 2019 , 215, 1	2.1	7
37	Forecasting the accuracy of genomic prediction with different selection targets in the training and prediction set as well as truncation selection. <i>Theoretical and Applied Genetics</i> , 2015 , 128, 2189-201	6	7
36	An incomplete enumeration algorithm for an exact test of Hardy-Weinberg proportions with multiple alleles. <i>Theoretical and Applied Genetics</i> , 2007 , 115, 393-8	6	7
35	Genetic drift and selection effects of modified recurrent full-sib selection programs in two F2 populations of European flint maize. <i>Theoretical and Applied Genetics</i> , 2006 , 113, 1113-20	6	7
34	Marker-based prediction of the parental genome contribution to inbred lines derived from biparental crosses. <i>Genetics</i> , 2006 , 174, 795-803	4	7
33	Modified full-sib selection and best linear unbiased prediction of progeny performance in a European F2 maize population. <i>Plant Breeding</i> , 2006 , 125, 248-253	2.4	7
32	Exploiting genetic diversity in two European maize landraces for improving <i>Gibberella</i> ear rot resistance using genomic tools. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 793-805	6	7
31	Variation and covariation for <i>Gibberella</i> ear rot resistance and agronomic traits in testcrosses of doubled haploid maize lines. <i>Euphytica</i> , 2012 , 185, 441-451	2.1	6
30	Linkage disequilibrium in two European F(2) flint maize populations under modified recurrent full-sib selection. <i>Theoretical and Applied Genetics</i> , 2007 , 115, 289-97	6	6
29	QTL mapping under truncation selection in homozygous lines derived from biparental crosses. <i>Theoretical and Applied Genetics</i> , 2012 , 124, 543-53	6	5
28	Hybrid maize breeding with doubled haploids: V. Selection strategies for testcross performance with variable sizes of crosses and S(1) families. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 699-708	6	5
27	Variation of the parental genome contribution in segregating populations derived from biparental crosses and its relationship with heterosis of their Design III progenies. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 311-9	6	5

26	Association between SCMV Resistance and Microarray-based Expression Patterns in Maize Inbreds. <i>Molecular Breeding</i> , 2005 , 16, 173-184	3.4	5
25	Resistance in the leaf and stem of sunflower after infection with two isolates of <i>Phomopsis</i> . <i>Plant Breeding</i> , 1999 , 118, 405-410	2.4	5
24	Economic Aspects of Breeding for Yield and Quality Traits in Forage Maize. <i>Plant Breeding</i> , 1994 , 112, 102-109	2.4	5
23	Influence of genetic background and heterozygosity on meiotic recombination in <i>Arabidopsis thaliana</i> . <i>Genome</i> , 2001 , 44, 971-978	2.4	5
22	Calibration and validation of predicted genomic breeding values in an advanced cycle maize population. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 3069-3081	6	5
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20	A New near Infrared Spectroscopy Sample Presentation Unit for Measuring Feeding Quality of Maize Stover. <i>Journal of Near Infrared Spectroscopy</i> , 2009 , 17, 195-201	1.5	4
19	Precision of recombination frequency estimates after random intermating with finite population sizes. <i>Genetics</i> , 2008 , 178, 597-600	4	4
18	Optimum allocation of test resources and relative efficiency of alternative procedures of within-family selection in hybrid breeding. <i>Plant Breeding</i> , 2009 , 128, 213-216	2.4	3
17	Genetic variation for resistance and mycotoxin content of European maize inoculated with <i>Fusarium graminearum</i> and <i>F. verticillioides</i> . <i>Cereal Research Communications</i> , 2008 , 36, 45-48	1.1	3
16	Epistasis in Maize (<i>Zea mays</i> L.) III. Comparison of Single and Three-Way Crosses for Forage Traits. <i>Plant Breeding</i> , 1987 , 98, 185-193	2.4	3
15	Hybrid maize breeding with doubled haploids: Comparison between selection criteria. <i>Acta Agronomica Hungarica: an International Multidisciplinary Journal in Agricultural Science</i> , 2006 , 54, 343-350		3
14	Silage yield and quality traits in elite maize hybrids and their relationship to elemental concentrations in juvenile plants. <i>Plant Breeding</i> , 2016 , 135, 55-62	2.4	2
13	Selectiongain: an R package for optimizing multi-stage selection. <i>Computational Statistics</i> , 2016 , 31, 533-543		2
12	Feeding quality assessment of fresh maize stover by means of near-infrared spectroscopy with a new sample presentation unit. <i>Plant Breeding</i> , 2008 , 127, 214-216	2.4	2
11	Apparatus for Dissecting Stalks to Evaluate Stem Borer Insect Resistance in Maize. <i>Agronomy Journal</i> , 1998 , 90, 233-234	2.2	2
10	Reciprocal differences for forage traits in single and three-way crosses of maize. <i>Plant Breeding</i> , 1995 , 114, 231-234	2.4	2
9	Graphical Genotype of Maize Inbred B86 Revealed by RFLPs. <i>Plant Breeding</i> , 1993 , 110, 29-34	2.4	2

8	High-resolution association mapping with libraries of immortalized lines from ancestral landraces. <i>Theoretical and Applied Genetics</i> , 2021 , 1	6	2
7	Omics-based Hybrid Prediction in Maize		2
6	An extension of the Smith model for quantitative genetic analysis of selection response under recurrent selection. <i>Plant Breeding</i> , 2006 , 125, 644-646	2.4	1
5	Unraveling the potential of phenomic selection within and among diverse breeding material of maize (<i>Zea mays</i> L.).. <i>G3: Genes, Genomes, Genetics</i> , 2022 ,	3.2	1
4	Genetic dissection of maternal influence on in vivo haploid induction in maize. <i>Crop Journal</i> , 2020 , 8, 287-298	4.6	1
3	Optimum breeding strategies using genomic and phenotypic selection for the simultaneous improvement of two traits. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 4025-4042	6	0
2	Genetic diversity of European maize landraces: Dataset on the molecular and phenotypic variation of derived doubled-haploid populations.. <i>Data in Brief</i> , 2022 , 42, 108164	1.2	
1	Theoretical and experimental assessment of genome-based prediction in landraces of allogamous crops.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2121797119	11.5	119