

Joachim Messing

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1561898/joachim-messing-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

219 papers	56,946 citations	69 h-index	238 g-index
253 ext. papers	59,237 ext. citations	8.6 avg, IF	7.76 L-index

#	Paper	IF	Citations
219	Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors. <i>Gene</i> , 1985 , 33, 103-19	3.8	14870
218	The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers. <i>Gene</i> , 1982 , 19, 259-68	3.8	6127
217	New M13 vectors for cloning. <i>Methods in Enzymology</i> , 1983 , 101, 20-78	1.7	4726
216	A new pair of M13 vectors for selecting either DNA strand of double-digest restriction fragments. <i>Gene</i> , 1982 , 19, 269-76	3.8	3000
215	The map-based sequence of the rice genome. <i>Nature</i> , 2005 , 436, 793-800	50.4	2923
214	A system for shotgun DNA sequencing. <i>Nucleic Acids Research</i> , 1981 , 9, 309-21	20.1	2657
213	Construction of improved M13 vectors using oligodeoxynucleotide-directed mutagenesis. <i>Gene</i> , 1983 , 26, 101-6	3.8	2419
212	Production of single-stranded plasmid DNA. <i>Methods in Enzymology</i> , 1987 , 153, 3-11	1.7	2282
211	The Sorghum bicolor genome and the diversification of grasses. <i>Nature</i> , 2009 , 457, 551-6	50.4	2200
210	Genome sequencing and analysis of the model grass Brachypodium distachyon. <i>Nature</i> , 2010 , 463, 763-850.4	50.4	1399
209	CARPEL FACTORY, a Dicer homolog, and HEN1, a novel protein, act in microRNA metabolism in Arabidopsis thaliana. <i>Current Biology</i> , 2002 , 12, 1484-95	6.3	999
208	The making of strand-specific M13 probes. <i>Gene</i> , 1982 , 17, 271-7	3.8	668
207	Filamentous coliphage M13 as a cloning vehicle: insertion of a HindII fragment of the lac regulatory region in M13 replicative form in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977 , 74, 3642-6	11.5	654
206	New pUC-derived cloning vectors with different selectable markers and DNA replication origins. <i>Gene</i> , 1991 , 100, 189-94	3.8	459
205	The complete nucleotide sequence of an infectious clone of cauliflower mosaic virus by M13mp7 shotgun sequencing. <i>Nucleic Acids Research</i> , 1981 , 9, 2871-88	20.1	400
204	Close split of sorghum and maize genome progenitors. <i>Genome Research</i> , 2004 , 14, 1916-23	9.7	347
203	The nucleotide sequence of the maize controlling element Activator. <i>Cell</i> , 1984 , 37, 635-43	56.2	287

202	The Rice Annotation Project Database (RAP-DB): 2008 update. <i>Nucleic Acids Research</i> , 2008 , 36, D1028-33	30.1	262
201	Sequence composition and genome organization of maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 14349-54	11.5	247
200	Methylation of single-stranded DNA in vitro introduces new restriction endonuclease cleavage sites. <i>Nature</i> , 1978 , 272, 375-7	50.4	245
199	Pattern of diversity in the genomic region near the maize domestication gene tb1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 700-7	11.5	240
198	A versatile primer for DNA sequencing in the M13mp2 cloning system. <i>Gene</i> , 1980 , 10, 69-73	3.8	239
197	Physical and genetic structure of the maize genome reflects its complex evolutionary history. <i>PLoS Genetics</i> , 2007 , 3, e123	6	234
196	In-depth view of structure, activity, and evolution of rice chromosome 10. <i>Science</i> , 2003 , 300, 1566-9	33.3	234
195	Gene movement by Helitron transposons contributes to the haplotype variability of maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9068-73	11.5	222
194	Gene expression of a gene family in maize based on noncollinear haplotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 9055-60	11.5	219
193	Structural Analysis of Plant Genes. <i>Annual Review of Plant Physiology</i> , 1986 , 37, 439-466		209
192	Curated genome annotation of <i>Oryza sativa</i> ssp. <i>japonica</i> and comparative genome analysis with <i>Arabidopsis thaliana</i> . <i>Genome Research</i> , 2007 , 17, 175-83	9.7	200
191	Steady-state transposon mutagenesis in inbred maize. <i>Plant Journal</i> , 2005 , 44, 52-61	6.9	184
190	The <i>Spirodela polyrhiza</i> genome reveals insights into its neotenus reduction fast growth and aquatic lifestyle. <i>Nature Communications</i> , 2014 , 5, 3311	17.4	180
189	A new opaque variant of maize by a single dominant RNA-interference-inducing transgene. <i>Genetics</i> , 2003 , 165, 387-97	4	162
188	Nucleotide sequence of naturally occurring deletion mutants of cauliflower mosaic virus. <i>Virology</i> , 1981 , 112, 678-85	3.6	152
187	The primary structure of a plant storage protein: zein. <i>Nucleic Acids Research</i> , 1981 , 9, 5163-74	20.1	145
186	Gene loss and movement in the maize genome. <i>Genome Research</i> , 2004 , 14, 1924-31	9.7	144
185	Ancestral grass karyotype reconstruction unravels new mechanisms of genome shuffling as a source of plant evolution. <i>Genome Research</i> , 2010 , 20, 1545-57	9.7	136

184	The pFF plasmids: cassettes utilising CaMV sequences for expression of foreign genes in plants. <i>Journal of Biotechnology</i> , 1990 , 14, 333-44	3.7	135
183	Structure and architecture of the maize genome. <i>Plant Physiology</i> , 2005 , 139, 1612-24	6.6	130
182	The Sinner circle of the cereal genomes. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 119-25	9.9	128
181	Sequence analysis of zein cDNAs obtained by an efficient mRNA cloning method. <i>Nucleic Acids Research</i> , 1983 , 11, 4891-906	20.1	127
180	Reconstruction of monocotyledonous proto-chromosomes reveals faster evolution in plants than in animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14908-13	11.5	125
179	Mosaic organization of orthologous sequences in grass genomes. <i>Genome Research</i> , 2002 , 12, 1549-55	9.7	114
178	Apple II software for M13 shotgun DNA sequencing. <i>Nucleic Acids Research</i> , 1982 , 10, 39-49	20.1	114
177	Primary structure of the Escherichia coli ribonucleoside diphosphate reductase operon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984 , 81, 4294-7	11.5	113
176	Cloning and sequencing of the ribosomal RNA genes in maize: the 17S region. <i>DNA and Cell Biology</i> , 1984 , 3, 31-40		108
175	Sweet sorghum as a model system for bioenergy crops. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 323-9	11.4	107
174	Palaeogenomics of plants: synteny-based modelling of extinct ancestors. <i>Trends in Plant Science</i> , 2010 , 15, 479-87	13.1	103
173	Isolation and sequence of a gene encoding a methionine-rich 10-kDa zein protein from maize. <i>Gene</i> , 1988 , 71, 359-70	3.8	101
172	Sequence, regulation, and evolution of the maize 22-kD alpha zein gene family. <i>Genome Research</i> , 2001 , 11, 1817-25	9.7	100
171	Amplification of prolamin storage protein genes in different subfamilies of the Poaceae. <i>Theoretical and Applied Genetics</i> , 2009 , 119, 1397-412	6	99
170	High-throughput sequencing of three Lemnoideae (duckweeds) chloroplast genomes from total DNA. <i>PLoS ONE</i> , 2011 , 6, e24670	3.7	96
169	Uneven chromosome contraction and expansion in the maize genome. <i>Genome Research</i> , 2006 , 16, 1241-51	5.1	95
168	DNA barcoding of the Lemnaceae, a family of aquatic monocots. <i>BMC Plant Biology</i> , 2010 , 10, 205	5.3	94
167	Gamma-zeins are essential for endosperm modification in quality protein maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12810-5	11.5	92

166	Allele-specific parental imprinting of <i>dzt1</i> , a posttranscriptional regulator of zein accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 4867-71	11.5	92
165	Plant Gene Structure 1983 , 211-227		92
164	Sequence-indexed mutations in maize using the UniformMu transposon-tagging population. <i>BMC Genomics</i> , 2007 , 8, 116	4.5	91
163	Organization of the prolamin gene family provides insight into the evolution of the maize genome and gene duplications in grass species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14330-5	11.5	88
162	Mutations of the 22- and 27-kD zein promoters affect transactivation by the Opaque-2 protein. <i>Plant Cell</i> , 1992 , 4, 701-9	11.6	87
161	Variegated phenotype and developmental methylation changes of a maize allele originating from epimutation. <i>Genetics</i> , 1994 , 136, 1121-41	4	85
160	Maize endosperm-specific transcription factors O2 and PBF network the regulation of protein and starch synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10842-7	11.5	83
159	Whole-genome validation of high-information-content fingerprinting. <i>Plant Physiology</i> , 2005 , 139, 27-386.6		81
158	Increasing maize seed methionine by mRNA stability. <i>Plant Journal</i> , 2002 , 30, 395-402	6.9	79
157	RNA interference-mediated change in protein body morphology and seed opacity through loss of different zein proteins. <i>Plant Physiology</i> , 2010 , 153, 337-47	6.6	76
156	Apple II computer software for DNA and protein sequence data. <i>DNA and Cell Biology</i> , 1983 , 2, 31-5		74
155	The formation of mRNA 3Sends in plants. <i>Plant Journal</i> , 1995 , 8, 323-9	6.9	73
154	Organization and variability of the maize genome. <i>Current Opinion in Plant Biology</i> , 2006 , 9, 157-63	9.9	72
153	Geminiviruses and Their Uses as Extrachromosomal Replicons. <i>Annual Review of Plant Biology</i> , 1994 , 45, 79-112		72
152	Endosperm-specific demethylation and activation of specific alleles of alpha-tubulin genes of Zea mays L. <i>Molecular Genetics and Genomics</i> , 1995 , 246, 716-22		70
151	Genetic analysis of opaque2 modifier loci in quality protein maize. <i>Theoretical and Applied Genetics</i> , 2008 , 117, 157-70	6	69
150	Characterization of the maize endosperm transcriptome and its comparison to the rice genome. <i>Genome Research</i> , 2004 , 14, 1932-7	9.7	68
149	Differential expression of a gene for a methionine-rich storage protein in maize. <i>Molecular Genetics and Genomics</i> , 1988 , 211, 477-84		67

148	Proteome balancing of the maize seed for higher nutritional value. <i>Frontiers in Plant Science</i> , 2014 , 5, 240	6.2	64
147	Dual regulated RNA transport pathways to the cortical region in developing rice endosperm. <i>Plant Cell</i> , 2003 , 15, 2265-72	11.6	62
146	Nucleotide sequence analysis of a zein genomic clone with a short open reading frame. <i>Gene</i> , 1984 , 28, 113-8	3.8	62
145	Characterization of three maize bacterial artificial chromosome libraries toward anchoring of the physical map to the genetic map using high-density bacterial artificial chromosome filter hybridization. <i>Plant Physiology</i> , 2002 , 130, 1686-96	6.6	60
144	A somatic gene rearrangement contributing to genetic diversity in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 7809-13	11.5	59
143	Dynamics of chloroplast genomes in green plants. <i>Genomics</i> , 2015 , 106, 221-31	4.3	58
142	Genome diversity in Brachypodium distachyon: deep sequencing of highly diverse inbred lines. <i>Plant Journal</i> , 2014 , 79, 361-74	6.9	58
141	DNA rearrangement in orthologous orp regions of the maize, rice and sorghum genomes. <i>Genetics</i> , 2005 , 170, 1209-20	4	55
140	On the tetraploid origin of the maize genome. <i>Comparative and Functional Genomics</i> , 2004 , 5, 281-4		54
139	Amplicons of maize zein genes are conserved within genic but expanded and constricted in intergenic regions. <i>Plant Journal</i> , 1998 , 15, 211-20	6.9	53
138	Contiguous genomic DNA sequence comprising the 19-kD zein gene family from maize. <i>Plant Physiology</i> , 2002 , 130, 1626-35	6.6	52
137	Exceptional subgenome stability and functional divergence in the allotetraploid Ethiopian cereal teff. <i>Nature Communications</i> , 2020 , 11, 884	17.4	51
136	Replication of a geminivirus derived shuttle vector in maize endosperm cells. <i>Nucleic Acids Research</i> , 1991 , 19, 371-7	20.1	50
135	Zeon-1, a member of a new maize retrotransposon family. <i>Molecular Genetics and Genomics</i> , 1995 , 248, 471-80		49
134	Determinants of the high-methionine trait in wild and exotic germplasm may have escaped selection during early cultivation of maize. <i>Plant Journal</i> , 1995 , 8, 359-68	6.9	48
133	Cloning and sequencing of restriction fragments generated by Eco RI*. <i>DNA and Cell Biology</i> , 1982 , 1, 109-15		48
132	Maize glutamine synthetase cDNAs: isolation by direct genetic selection in Escherichia coli. <i>Genetics</i> , 1988 , 120, 1111-23	4	48
131	NAC-type transcription factors regulate accumulation of starch and protein in maize seeds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11223-11228	11.5	47

130	High frequency callus formation from maize protoplasts. <i>Theoretical and Applied Genetics</i> , 1985 , 71, 344-60	47
129	Primary structure of a genomic zein sequence of maize.. <i>EMBO Journal</i> , 1982 , 1, 1337-1342	13 47
128	Characterization of the small RNA component of the transcriptome from grain and sweet sorghum stems. <i>BMC Genomics</i> , 2011 , 12, 356	4.5 46
127	Tissue-specific DNase I-sensitive sites of the maize P gene and their changes upon epimutation. <i>Plant Journal</i> , 1995 , 7, 797-807	6.9 46
126	Mutation in the seed storage protein kafirin creates a high-value food trait in sorghum. <i>Nature Communications</i> , 2013 , 4, 2217	17.4 44
125	Structure and evolution of the r/b chromosomal regions in rice, maize and sorghum. <i>Genetics</i> , 2005 , 169, 891-906	4 44
124	Identification of a transcriptional activator-binding element in the 27-kilodalton zein promoter, the -300 element. <i>Molecular and Cellular Biology</i> , 1994 , 14, 4350-9	4.8 42
123	3Send processing of the maize 27 kDa zein mRNA. <i>Plant Journal</i> , 1993 , 4, 535-44	6.9 42
122	Genetic analysis of methionine-rich storage protein accumulation in maize. <i>Theoretical and Applied Genetics</i> , 1989 , 78, 761-7	6 42
121	Maize haplotype with a helitron-amplified cytidine deaminase gene copy. <i>BMC Genetics</i> , 2006 , 7, 52	2.6 41
120	Comparative sequence analysis of the sorghum Rph region and the maize Rp1 resistance gene complex. <i>Plant Physiology</i> , 2002 , 130, 1728-38	6.6 41
119	Balancing of sulfur storage in maize seed. <i>BMC Plant Biology</i> , 2012 , 12, 77	5.3 40
118	Sequence analysis of the long arm of rice chromosome 11 for rice-wheat synteny. <i>Functional and Integrative Genomics</i> , 2004 , 4, 102-17	3.8 40
117	A homologous expression system for cloned zein genes. <i>Theoretical and Applied Genetics</i> , 1991 , 82, 93-100	40
116	Sequence analysis and comparison of cDNAs of the zein multigene family .. <i>EMBO Journal</i> , 1982 , 1, 1329-1335	40
115	Trans replication and high copy numbers of wheat dwarf virus vectors in maize cells. <i>Nucleic Acids Research</i> , 1992 , 20, 4047-54	20.1 38
114	Engineering sulfur storage in maize seed proteins without apparent yield loss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11386-11391	11.5 37
113	Cloning in M13 phage or how to use biology at its best. <i>Gene</i> , 1991 , 100, 3-12	3.8 37

112	Expression of the sorghum 10-member kafirin gene cluster in maize endosperm. <i>Nucleic Acids Research</i> , 2004 , 32, e189	20.1	36
111	Importance of anchor genomes for any plant genome project. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 2017-20	11.5	36
110	Plant evolution and environmental adaptation unveiled by long-read whole-genome sequencing of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18893-18899	11.5	35
109	Retrotranspositions in orthologous regions of closely related grass species. <i>BMC Evolutionary Biology</i> , 2006 , 6, 62	3	35
108	RNA interference can rebalance the nitrogen sink of maize seeds without losing hard endosperm. <i>PLoS ONE</i> , 2012 , 7, e32850	3.7	34
107	Analysis of ADP-glucose pyrophosphorylase expression during turion formation induced by abscisic acid in <i>Spirodela polyrhiza</i> (greater duckweed). <i>BMC Plant Biology</i> , 2012 , 12, 5	5.3	34
106	Efficiency in cloning and sequencing using the single-stranded bacteriophage M13. <i>Journal of Biotechnology</i> , 1984 , 1, 253-264	3.7	34
105	Analysis of tandem gene copies in maize chromosomal regions reconstructed from long sequence reads. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7949-56	11.5	33
104	Screen of Genes Linked to High-Sugar Content in Stems by Comparative Genomics. <i>Rice</i> , 2008 , 1, 166-176	5.8	33
103	A new allele of the duplicated 27kD zein locus of maize generated by homologous recombination. <i>Nucleic Acids Research</i> , 1991 , 19, 3325-30	20.1	33
102	The map-based genome sequence of <i>Spirodela polyrhiza</i> aligned with its chromosomes, a reference for karyotype evolution. <i>New Phytologist</i> , 2016 , 209, 354-63	9.8	33
101	Inhibition of minicircular DNA replication in <i>Escherichia coli</i> 15 by rifampicin. <i>Nature: New Biology</i> , 1972 , 238, 202-3		32
100	The maize high-lysine mutant opaque7 is defective in an acyl-CoA synthetase-like protein. <i>Genetics</i> , 2011 , 189, 1271-80	4	31
99	Post-transcriptional regulation of methionine content in maize kernels. <i>Molecular Genetics and Genomics</i> , 1991 , 225, 331-9		31
98	Highly clustered zein gene sequences reveal evolutionary history of the multigene family. <i>Genomics</i> , 1991 , 10, 719-32	4.3	31
97	The nucleotide sequence of a mitochondrial replicon from maize. <i>Gene</i> , 1985 , 38, 131-8	3.8	31
96	Differential gene expression and epiregulation of alpha zein gene copies in maize haplotypes. <i>PLoS Genetics</i> , 2011 , 7, e1002131	6	30
95	Asymmetric localization of seed storage protein RNAs to distinct subdomains of the endoplasmic reticulum in developing maize endosperm cells. <i>Plant and Cell Physiology</i> , 2004 , 45, 1830-7	4.9	29

94	Genomic imprinting in plants. <i>Results and Problems in Cell Differentiation</i> , 1999 , 25, 23-40	1.4	29
93	Characterization of the maize prolamin box-binding factor-1 (PBF-1) and its role in the developmental regulation of the zein multigene family. <i>Gene</i> , 1998 , 223, 321-32	3.8	28
92	The mitochondrial genome of an aquatic plant, <i>Spirodela polyrhiza</i> . <i>PLoS ONE</i> , 2012 , 7, e46747	3.7	28
91	RNA-Seq transcriptome analysis of <i>Spirodela</i> dormancy without reproduction. <i>BMC Genomics</i> , 2014 , 15, 60	4.5	27
90	Repression of the high-methionine zein gene in the maize inbred line Mo17. <i>Plant Journal</i> , 1993 , 3, 221-229		27
89	Transcriptome and metabolome reveal distinct carbon allocation patterns during internode sugar accumulation in different sorghum genotypes. <i>Plant Biotechnology Journal</i> , 2019 , 17, 472-487	11.6	25
88	Novel genetic selection system for quantitative trait loci of quality protein maize. <i>Genetics</i> , 2011 , 188, 1019-22	4	25
87	Rapid divergence of prolamin gene promoters of maize after gene amplification and dispersal. <i>Genetics</i> , 2012 , 192, 507-19	4	25
86	Primary structure of a genomic zein sequence of maize. <i>EMBO Journal</i> , 1982 , 1, 1337-42	13	25
85	PacBio sequencing of gene families - a case study with wheat gluten genes. <i>Gene</i> , 2014 , 533, 541-6	3.8	24
84	Diverged copies of the seed regulatory Opaque-2 gene by a segmental duplication in the progenitor genome of rice, sorghum, and maize. <i>Molecular Plant</i> , 2008 , 1, 760-9	14.4	24
83	RNA Editing in Chloroplasts of <i>Spirodela polyrhiza</i> , an Aquatic Monocotyledonous Species. <i>PLoS ONE</i> , 2015 , 10, e0140285	3.7	23
82	Change of gene structure and function by non-homologous end-joining, homologous recombination, and transposition of DNA. <i>PLoS Genetics</i> , 2009 , 5, e1000516	6	23
81	Sequence analysis and comparison of cDNAs of the zein multigene family. <i>EMBO Journal</i> , 1982 , 1, 1329-35		23
80	Non-Mendelian regulation and allelic variation of methionine-rich delta-zein genes in maize. <i>Theoretical and Applied Genetics</i> , 2009 , 119, 721-31	6	22
79	Dynamic gene copy number variation in collinear regions of grass genomes. <i>Molecular Biology and Evolution</i> , 2012 , 29, 861-71	8.3	21
78	Sequence variation between alleles reveals two types of copy correction at the 27-kDa zein locus of maize. <i>Genomics</i> , 1991 , 11, 849-56	4.3	21
77	Characterization of a meiotic crossover in maize identified by a restriction fragment length polymorphism-based method. <i>Genetics</i> , 1996 , 143, 1771-83	4	21

76	Efficacy of clone fingerprinting methodologies. <i>Genomics</i> , 2007 , 89, 160-5	4.3	20
75	Region-specific cis- and trans-acting factors contribute to genetic variability in meiotic recombination in maize. <i>Genetics</i> , 1997 , 146, 1101-13	4	20
74	Identification of a transcriptional activator-binding element in the 27-kilodalton zein promoter, the -300 element. <i>Molecular and Cellular Biology</i> , 1994 , 14, 4350-4359	4.8	19
73	Long-read sequencing reveals genomic structural variations that underlie creation of quality protein maize. <i>Nature Communications</i> , 2020 , 11, 17	17.4	19
72	Maize mutant generated by insertion of a element in a gene encoding a highly conserved TTI2 cochaperone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5165-5170	11.5	18
71	Status of duckweed genomics and transcriptomics. <i>Plant Biology</i> , 2015 , 17 Suppl 1, 10-5	3.7	18
70	Overexpression of serine acetyltransferase in maize leaves increases seed-specific methionine-rich zeins. <i>Plant Biotechnology Journal</i> , 2018 , 16, 1057-1067	11.6	18
69	Analysis of EST sequences suggests recent origin of allotetraploid colonial and creeping bentgrasses. <i>Molecular Genetics and Genomics</i> , 2007 , 278, 197-209	3.1	18
68	M13 cloning vehicles. Their contribution to DNA sequencing. <i>Methods in Molecular Biology</i> , 1993 , 23, 9-22	1.4	18
67	Phage M13 for the treatment of Alzheimer and Parkinson disease. <i>Gene</i> , 2016 , 583, 85-89	3.8	17
66	Discovery of MicroRNA169 gene copies in genomes of flowering plants through positional information. <i>Genome Biology and Evolution</i> , 2013 , 5, 402-17	3.9	17
65	Molecular Markers for Sweet Sorghum Based on Microarray Expression Data. <i>Rice</i> , 2009 , 2, 129-142	5.8	16
64	Grass genome structure and evolution. <i>Genome Dynamics</i> , 2008 , 4, 41-56		16
63	Manipulation and expression of the maize zein storage proteins in Escherichia coli. <i>Journal of Biotechnology</i> , 1985 , 2, 157-175	3.7	16
62	Chromatin organisation in duckweed interphase nuclei in relation to the nuclear DNA content. <i>Plant Biology</i> , 2015 , 17 Suppl 1, 120-4	3.7	15
61	Genome-wide histone acetylation correlates with active transcription in maize. <i>Genomics</i> , 2015 , 106, 214-20	4.3	15
60	Divergence of gene regulation through chromosomal rearrangements. <i>BMC Genomics</i> , 2010 , 11, 678	4.5	15
59	Paramutagenicity of a p1 epiallele in maize. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 159-77	6	14

58	Sequence and spatial requirements for the tissue- and species-independent 3Send processing mechanism of plant mRNA. <i>Molecular and Cellular Biology</i> , 1994 , 14, 6829-38	4.8	14
57	Tissue-specific DNase I-sensitive sites of the maize P gene and their changes upon epimutation. <i>Plant Journal</i> , 1995 , 7, 797-807	6.9	14
56	Defining the Role of prolamin-box binding factor1 Gene During Maize Domestication. <i>Journal of Heredity</i> , 2014 , 105, 576-582	2.4	13
55	Genomic resources for gene discovery, functional genome annotation, and evolutionary studies of maize and its close relatives. <i>Genetics</i> , 2013 , 195, 723-37	4	13
54	A Plant Genome Initiative. <i>Plant Cell</i> , 1998 , 10, 488-493	11.6	13
53	RFLP mapping of the maize <i>dzt1</i> locus, which regulates methionine-rich 10 kDa zein accumulation. <i>Molecular Genetics and Genomics</i> , 1995 , 246, 707-15		13
52	Maternal effect on high methionine levels in hybrid corn. <i>Journal of Biotechnology</i> , 1991 , 21, 229-237	3.7	13
51	Interchromosomal recombination in <i>Zea mays</i> . <i>Genetics</i> , 1998 , 150, 1229-37	4	13
50	Teff, an Orphan Cereal in the Chloridoideae, Provides Insights into the Evolution of Storage Proteins in Grasses. <i>Genome Biology and Evolution</i> , 2016 , 8, 1712-21	3.9	11
49	Epiallele biogenesis in maize. <i>Gene</i> , 2013 , 516, 8-23	3.8	11
48	Dynamic genome organization and gene evolution by positive selection in geminivirus (Geminiviridae). <i>Molecular Biology and Evolution</i> , 1997 , 14, 1114-24	8.3	11
47	Manipulation of amino acid balance in maize seeds. <i>Genetic Engineering</i> , 1993 , 15, 109-30		11
46	The manipulation of zein genes to improve the nutritional value of corn. <i>Trends in Biotechnology</i> , 1983 , 1, 54-59	15.1	10
45	Divergent properties of prolamins in wheat and maize. <i>Planta</i> , 2013 , 237, 1465-73	4.7	9
44	Modulation of gene expression by DNA-protein and protein-protein interactions in the promoter region of the zein multigene family. <i>Gene</i> , 1998 , 223, 333-45	3.8	9
43	Do plants have more genes than humans?. <i>Trends in Plant Science</i> , 2001 , 6, 195-6	13.1	9
42	Mutations of the 22- and 27-kD Zein Promoters Affect Transactivation by the Opaque-2 Protein. <i>Plant Cell</i> , 1992 , 4, 701	11.6	9
41	Endonuclease activity associated with the DNA protein complex of minicircular DNA of <i>Escherichia coli</i> 15. <i>FEBS Journal</i> , 1973 , 36, 39-44		9

40	Candidate gene identification of existing or induced mutations with pipelines applicable to large genomes. <i>Plant Journal</i> , 2019 , 97, 673-682	6.9	9
39	Genome-wide analysis of pentatricopeptide-repeat proteins of an aquatic plant. <i>Planta</i> , 2016 , 244, 893-904	4.7	8
38	Miniature Inverted-Repeat Transposable Element Identification and Genetic Marker Development in <i>Agrostis</i> . <i>Crop Science</i> , 2011 , 51, 854-861	2.4	8
37	Methylation-sensitive linking libraries enhance gene-enriched sequencing of complex genomes and map DNA methylation domains. <i>BMC Genomics</i> , 2008 , 9, 621	4.5	8
36	Precise location of the crossover region in the lambda attachment sequence. <i>Nature</i> , 1977 , 267, 555-7	50.4	8
35	Quality Protein Maize Based on Reducing Sulfur in Leaf Cells. <i>Genetics</i> , 2017 , 207, 1687-1697	4	7
34	A new high-throughput assay for determining soluble sugar in sorghum internode-extracted juice. <i>Planta</i> , 2018 , 248, 785-793	4.7	7
33	A method for cloning full-length cDNA in plasmid vectors. <i>Methods in Enzymology</i> , 1987 , 154, 28-41	1.7	7
32	Replication of the minicircular DNA of <i>Escherichia coli</i> 15. Properties of newly replicated open circular DNA molecules. <i>FEBS Journal</i> , 1974 , 44, 293-7		7
31	Maize seed storage proteins. 2017 , 175-189		7
30	The Wukong Terminal-Repeat Retrotransposon in Miniature (TRIM) Elements in Diverse Maize Germplasm. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 1585-92	3.2	6
29	Rescue of a dominant mutant with RNA interference. <i>Genetics</i> , 2010 , 186, 1493-6	4	6
28	Synergy of two reference genomes for the grass family. <i>Plant Physiology</i> , 2009 , 149, 117-24	6.6	6
27	Plant science in lac: A continuation of using tools from <i>Escherichia coli</i> in studying gene function in heterologous systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 93-4	11.5	6
26	Sequence and spatial requirements for the tissue- and species-independent 3' end processing mechanism of plant mRNA. <i>Molecular and Cellular Biology</i> , 1994 , 14, 6829-6838	4.8	6
25	Post-transcriptional adaptation of the aquatic plant <i>Spirodela polyrrhiza</i> under stress and hormonal stimuli. <i>Plant Journal</i> , 2019 , 98, 1120-1133	6.9	5
24	Evolution of gene expression after gene amplification. <i>Genome Biology and Evolution</i> , 2015 , 7, 1303-12	3.9	5
23	Frequent genic rearrangements in two regions of grass genomes identified by comparative sequence analysis. <i>Comparative and Functional Genomics</i> , 2002 , 3, 165-6		5

22	Cloning single-stranded DNA. <i>Molecular Biotechnology</i> , 1996 , 5, 39-47	3	5
21	Isolation of the minicircular DNA of Escherichia coli 15 as a DNA--protein complex. <i>Nucleic Acids and Protein Synthesis</i> , 1972 , 281, 465-71		5
20	Flowering and Seed Production across the Lemnaceae. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
19	Genetic diversity and evolution of reduced sulfur storage during domestication of maize. <i>Plant Journal</i> , 2018 , 94, 943-955	6.9	4
18	Evolution, Structure, and Function of Prolamin Storage Proteins 2013 , 138-158		4
17	Cloned genes of storage proteins. <i>Plant Molecular Biology Reporter</i> , 1988 , 6, 22-22	1.7	4
16	Data storage and handling of plant nucleotide sequences. <i>Plant Molecular Biology Reporter</i> , 1984 , 2, 32-35	1.7	4
15	The Polyploid Origin of Maize 2009 , 221-238		4
14	TTT and PIKK Complex Genes Reverted to Single Copy Following Polyploidization and Retain Function Despite Massive Retrotransposition in Maize. <i>Frontiers in Plant Science</i> , 2017 , 8, 1723	6.2	3
13	The universal primers and the shotgun DNA sequencing method. <i>Methods in Molecular Biology</i> , 2001 , 167, 13-31	1.4	3
12	A STRATEGY FOR HIGH-SPEED DNA SEQUENCING 1981 , 659-669		3
11	Microbiology Spurred Massively Parallel Genomic Sequencing and Biotechnology. <i>Microbe Magazine</i> , 2014 , 9, 271-277		3
10	Common metabolic networks contribute to carbon sink strength of sorghum internodes: implications for bioenergy improvement. <i>Biotechnology for Biofuels</i> , 2019 , 12, 274	7.8	3
9	Locus- and Site-Specific DNA Methylation of 19 kDa Zein Genes in Maize. <i>PLoS ONE</i> , 2016 , 11, e0146416	3.7	2
8	Natural variants of Gliadin peptides within wheat proteins with reduced toxicity in coeliac disease. <i>British Journal of Nutrition</i> , 2020 , 123, 1382-1389	3.6	1
7	Molecular Genetics of Corn. <i>Agronomy</i> , 2015 , 389-429	0.8	1
6	Cytological aberrations in maize populations exhibiting unusual recombinational behaviour. <i>Cytobios</i> , 1992 , 70, 203-8		1
5	In vitro DNA synthesis as a tool to analyze and alter genes. <i>Basic Life Sciences</i> , 1983 , 25, 9-15		1

- 4 Towards coeliac-safe bread. *Plant Biotechnology Journal*, **2020**, 18, 1056-1065 11.6 o
- 3 PacBio for Haplotyping in Gene Families. *Methods in Molecular Biology*, **2017**, 1551, 61-71 1.4
- 2 A Plant Genome Initiative. *Plant Cell*, **1998**, 10, 488 11.6
- 1 The Structure of the Maize Genome. *Biotechnology in Agriculture and Forestry*, **2009**, 213-230