

# Maarten Koornneef

## List of Publications by Citations

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178  
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24,647  
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#	Paper	IF	Citations
178	A genetic and physiological analysis of late flowering mutants in <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , <b>1991</b> , 229, 57-66		792
177	The isolation and characterization of abscisic acid-insensitive mutants of <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , <b>1984</b> , 61, 377-383	4.6	789
176	Seed dormancy and germination. <i>Current Opinion in Plant Biology</i> , <b>2002</b> , 5, 33-6	9.9	639
175	Influence of the testa on seed dormancy, germination, and longevity in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2000</b> , 122, 403-14	6.6	603
174	Induction and analysis of gibberellin sensitive mutants in <i>Arabidopsis thaliana</i> (L.) heynh. <i>Theoretical and Applied Genetics</i> , <b>1980</b> , 58, 257-63	6	541
173	Naturally occurring genetic variation in <i>Arabidopsis thaliana</i> . <i>Annual Review of Plant Biology</i> , <b>2004</b> , 55, 141-72	30.7	529
172	Induction of dormancy during seed development by endogenous abscisic acid: studies on abscisic acid deficient genotypes of <i>Arabidopsis thaliana</i> (L.) Heynh. <i>Planta</i> , <b>1983</b> , 157, 158-65	4.7	468
171	Sucrose-specific induction of anthocyanin biosynthesis in <i>Arabidopsis</i> requires the MYB75/PAP1 gene. <i>Plant Physiology</i> , <b>2005</b> , 139, 1840-52	6.6	464
170	The late flowering phenotype of <i>fwa</i> mutants is caused by gain-of-function epigenetic alleles of a homeodomain gene. <i>Molecular Cell</i> , <b>2000</b> , 6, 791-802	17.6	460
169	Analysis of <i>Arabidopsis</i> mutants deficient in flavonoid biosynthesis. <i>Plant Journal</i> , <b>1995</b> , 8, 659-71	6.9	457
168	The isolation of abscisic acid (ABA) deficient mutants by selection of induced revertants in non-germinating gibberellin sensitive lines of <i>Arabidopsis thaliana</i> (L.) heynh. <i>Theoretical and Applied Genetics</i> , <b>1982</b> , 61, 385-93	6	457
167	The TRANSPARENT TESTA12 gene of <i>Arabidopsis</i> encodes a multidrug secondary transporter-like protein required for flavonoid sequestration in vacuoles of the seed coat endothelium. <i>Plant Cell</i> , <b>2001</b> , 13, 853-71	11.6	424
166	Cloning of DOG1, a quantitative trait locus controlling seed dormancy in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 17042-7	11.5	413
165	Large expression differences in genes for iron and zinc homeostasis, stress response, and lignin biosynthesis distinguish roots of <i>Arabidopsis thaliana</i> and the related metal hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Plant Physiology</i> , <b>2006</b> , 142, 1127-47	6.6	407
164	The genetics of plant metabolism. <i>Nature Genetics</i> , <b>2006</b> , 38, 842-9	36.3	401
163	Isolation and characterization of abscisic acid-deficient <i>Arabidopsis</i> mutants at two new loci. <i>Plant Journal</i> , <b>1996</b> , 10, 655-61	6.9	393
162	GENETIC CONTROL OF FLOWERING TIME IN ARABIDOPSIS. <i>Annual Review of Plant Biology</i> , <b>1998</b> , 49, 345-370		382

161	Naturally occurring variation in Arabidopsis: an underexploited resource for plant genetics. <i>Trends in Plant Science</i> , <b>2000</b> , 5, 22-9	13.1	356
160	What has natural variation taught us about plant development, physiology, and adaptation?. <i>Plant Cell</i> , <b>2009</b> , 21, 1877-96	11.6	346
159	A QTL for flowering time in Arabidopsis reveals a novel allele of CRY2. <i>Nature Genetics</i> , <b>2001</b> , 29, 435-40	36.3	335
158	Gibberellin requirement for Arabidopsis seed germination is determined both by testa characteristics and embryonic abscisic acid. <i>Plant Physiology</i> , <b>2000</b> , 122, 415-24	6.6	310
157	The Arabidopsis aldehyde oxidase 3 (AAO3) gene product catalyzes the final step in abscisic acid biosynthesis in leaves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 12908-13	11.5	306
156	In Vivo Inhibition of Seed Development and Reserve Protein Accumulation in Recombinants of Abscisic Acid Biosynthesis and Responsiveness Mutants in Arabidopsis thaliana. <i>Plant Physiology</i> , <b>1989</b> , 90, 463-9	6.6	298
155	Arabidopsis thaliana: a model plant for genome analysis. <i>Science</i> , <b>1998</b> , 282, 662, 679-82	33.3	297
154	Development of an AFLP based linkage map of Ler, Col and Cvi Arabidopsis thaliana ecotypes and construction of a Ler/Cvi recombinant inbred line population. <i>Plant Journal</i> , <b>1998</b> , 14, 259-71	6.9	293
153	Analysis of natural allelic variation at seed dormancy loci of Arabidopsis thaliana. <i>Genetics</i> , <b>2003</b> , 164, 711-29	4	284
152	The development of Arabidopsis as a model plant. <i>Plant Journal</i> , <b>2010</b> , 61, 909-21	6.9	270
151	Regulatory network construction in Arabidopsis by using genome-wide gene expression quantitative trait loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 1708-13	11.5	269
150	Natural allelic variation at seed size loci in relation to other life history traits of Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 4710-7	11.5	229
149	The absence of histone H2B monoubiquitination in the Arabidopsis hub1 (rdo4) mutant reveals a role for chromatin remodeling in seed dormancy. <i>Plant Cell</i> , <b>2007</b> , 19, 433-44	11.6	225
148	The phenotype of some late-flowering mutants is enhanced by a locus on chromosome 5 that is not effective in the Landsberg erecta wild-type. <i>Plant Journal</i> , <b>1994</b> , 6, 911-919	6.9	207
147	System-wide molecular evidence for phenotypic buffering in Arabidopsis. <i>Nature Genetics</i> , <b>2009</b> , 41, 166-73	36.3	205
146	Regulation of Arabidopsis thaliana Em genes: role of ABI5. <i>Plant Journal</i> , <b>2002</b> , 30, 373-83	6.9	201
145	The BANYULS gene encodes a DFR-like protein and is a marker of early seed coat development. <i>Plant Journal</i> , <b>1999</b> , 19, 387-98	6.9	200
144	Seed dormancy and germination. <i>The Arabidopsis Book</i> , <b>2008</b> , 6, e0119	3	192

143	Analysis of natural allelic variation at flowering time loci in the Landsberg erecta and Cape Verde Islands ecotypes of <i>Arabidopsis thaliana</i> . <i>Genetics</i> , <b>1998</b> , 149, 749-64	4	187
142	Control of FWA gene silencing in <i>Arabidopsis thaliana</i> by SINE-related direct repeats. <i>Plant Journal</i> , <b>2007</b> , 49, 38-45	6.9	186
141	ANTHOCYANINLESS2, a homeobox gene affecting anthocyanin distribution and root development in <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>1999</b> , 11, 1217-26	11.6	185
140	Analysis of natural allelic variation of <i>Arabidopsis</i> seed germination and seed longevity traits between the accessions Landsberg erecta and Shikdara, using a new recombinant inbred line population. <i>Plant Physiology</i> , <b>2004</b> , 135, 432-43	6.6	182
139	Development of a near-isogenic line population of <i>Arabidopsis thaliana</i> and comparison of mapping power with a recombinant inbred line population. <i>Genetics</i> , <b>2007</b> , 175, 891-905	4	179
138	Flowering responses to light-breaks in photomorphogenic mutants of <i>Arabidopsis thaliana</i> , a long-day plant. <i>Physiologia Plantarum</i> , <b>1991</b> , 83, 209-215	4.6	175
137	A fortunate choice: the history of <i>Arabidopsis</i> as a model plant. <i>Nature Reviews Genetics</i> , <b>2002</b> , 3, 883-9	30.1	171
136	Genetic relationships within <i>Brassica rapa</i> as inferred from AFLP fingerprints. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 110, 1301-14	6	167
135	Genotype×environment interaction QTL mapping in plants: lessons from <i>Arabidopsis</i> . <i>Trends in Plant Science</i> , <b>2014</b> , 19, 390-8	13.1	164
134	Genetic analysis of seed-soluble oligosaccharides in relation to seed storability of <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2000</b> , 124, 1595-604	6.6	163
133	The genetic and molecular dissection of abscisic acid biosynthesis and signal transduction in <i>Arabidopsis</i> . <i>Plant Physiology and Biochemistry</i> , <b>1998</b> , 36, 83-89	5.4	159
132	Natural allelic variation identifies new genes in the <i>Arabidopsis</i> circadian system. <i>Plant Journal</i> , <b>1999</b> , 20, 67-77	6.9	158
131	Natural variation for seed dormancy in <i>Arabidopsis</i> is regulated by additive genetic and molecular pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4264-9	11.5	152
130	The genomic landscape of meiotic crossovers and gene conversions in <i>Arabidopsis thaliana</i> . <i>ELife</i> , <b>2013</b> , 2, e01426	8.9	149
129	Vacuolar invertase regulates elongation of <i>Arabidopsis thaliana</i> roots as revealed by QTL and mutant analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 2994-9	11.5	149
128	Next generation of elevated [CO <sub>2</sub> ] experiments with crops: a critical investment for feeding the future world. <i>Plant, Cell and Environment</i> , <b>2008</b> , 31, 1317-24	8.4	145
127	A Seed Shape Mutant of <i>Arabidopsis</i> That Is Affected in Integument Development. <i>Plant Cell</i> , <b>1994</b> , 6, 385-392	11.6	142
126	Natural variation and QTL analysis for cationic mineral content in seeds of <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 828-839	8.4	137

125	A genetic analysis of cell culture traits in tomato. <i>Theoretical and Applied Genetics</i> , <b>1987</b> , 74, 633-41	6	132
124	The earliest stages of adaptation in an experimental plant population: strong selection on QTLs for seed dormancy. <i>Molecular Ecology</i> , <b>2010</b> , 19, 1335-51	5.7	127
123	Analysis of natural allelic variation in Arabidopsis using a multiparent recombinant inbred line population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 4488-93	11.5	122
122	Genetic and molecular analyses of natural variation indicate CBF2 as a candidate gene for underlying a freezing tolerance quantitative trait locus in Arabidopsis. <i>Plant Physiology</i> , <b>2005</b> , 139, 1304-12	6.6	120
121	Quantitative trait loci for flowering time and morphological traits in multiple populations of Brassica rapa. <i>Journal of Experimental Botany</i> , <b>2007</b> , 58, 4005-16	7	118
120	Chromosome-level assembly of Arabidopsis thaliana Ler reveals the extent of translocation and inversion polymorphisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E4052-60	11.5	118
119	DOG1 expression is predicted by the seed-maturation environment and contributes to geographical variation in germination in Arabidopsis thaliana. <i>Molecular Ecology</i> , <b>2011</b> , 20, 3336-49	5.7	112
118	Quantitative trait locus analysis of growth-related traits in a new Arabidopsis recombinant inbred population. <i>Plant Physiology</i> , <b>2004</b> , 135, 444-58	6.6	110
117	Seed maturation in Arabidopsis thaliana is characterized by nuclear size reduction and increased chromatin condensation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 20219-24	11.5	107
116	QTL analysis of seed dormancy in Arabidopsis using recombinant inbred lines and MQM mapping. <i>Heredity</i> , <b>1997</b> , 79 ( Pt 2), 190-200	3.6	106
115	Co-variation between seed dormancy, growth rate and flowering time changes with latitude in Arabidopsis thaliana. <i>PLoS ONE</i> , <b>2013</b> , 8, e61075	3.7	102
114	Natural variation at Strubbelig Receptor Kinase 3 drives immune-triggered incompatibilities between Arabidopsis thaliana accessions. <i>Nature Genetics</i> , <b>2010</b> , 42, 1135-9	36.3	99
113	Accumulation of C19-gibberellins in the gibberellin-insensitive dwarf mutant gai of Arabidopsis thaliana (L.) Heynh. <i>Planta</i> , <b>1990</b> , 182, 501-5	4.7	99
112	The conserved splicing factor SUA controls alternative splicing of the developmental regulator ABI3 in Arabidopsis. <i>Plant Cell</i> , <b>2010</b> , 22, 1936-46	11.6	98
111	The isolation and characterization of gibberellin-deficient mutants in tomato. <i>Theoretical and Applied Genetics</i> , <b>1990</b> , 80, 852-7	6	95
110	Far-red light-insensitive, phytochrome A-deficient mutants of tomato. <i>Molecular Genetics and Genomics</i> , <b>1995</b> , 246, 133-41		94
109	Gene function beyond the single trait: natural variation, gene effects, and evolutionary ecology in Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 2-20	8.4	92
108	Genetic differences in seed longevity of various Arabidopsis mutants. <i>Physiologia Plantarum</i> , <b>2004</b> , 121, 448-461	4.6	91

107	An integrated genetic/RFLP map of the <i>Arabidopsis thaliana</i> genome. <i>Plant Journal</i> , <b>1993</b> , 3, 745-754	6.9	90
106	RFLP markers linked to the root knot nematode resistance gene Mi in tomato. <i>Theoretical and Applied Genetics</i> , <b>1991</b> , 81, 661-7	6	89
105	Integrative analyses of genetic variation in enzyme activities of primary carbohydrate metabolism reveal distinct modes of regulation in <i>Arabidopsis thaliana</i> . <i>Genome Biology</i> , <b>2008</b> , 9, R129	18.3	82
104	New <i>Arabidopsis</i> recombinant inbred line populations genotyped using SNPWave and their use for mapping flowering-time quantitative trait loci. <i>Genetics</i> , <b>2006</b> , 172, 1867-76	4	80
103	Paths to selection on life history loci in different natural environments across the native range of <i>Arabidopsis thaliana</i> . <i>Molecular Ecology</i> , <b>2013</b> , 22, 3552-66	5.7	78
102	Association mapping of leaf traits, flowering time, and phytate content in <i>Brassica rapa</i> . <i>Genome</i> , <b>2007</b> , 50, 963-73	2.4	78
101	The aurea mutant of tomato is deficient in spectrophotometrically and immunochemically detectable phytochrome. <i>Plant Molecular Biology</i> , <b>1987</b> , 9, 97-107	4.6	76
100	Somaclonal variation in tomato: effect of explant source and a comparison with chemical mutagenesis. <i>Theoretical and Applied Genetics</i> , <b>1990</b> , 80, 817-25	6	75
99	Molecular analysis of the phytochrome deficiency in an aurea mutant of tomato. <i>Molecular Genetics and Genomics</i> , <b>1988</b> , 213, 9-14		72
98	Breeding of a tomato genotype readily accessible to genetic manipulation. <i>Plant Science</i> , <b>1986</b> , 45, 201-208	3.9	72
97	Physiological interactions of phytochromes A, B1 and B2 in the control of development in tomato. <i>Plant Journal</i> , <b>2000</b> , 24, 345-56	6.9	71
96	Combined genetic and modeling approaches reveal that epidermal cell area and number in leaves are controlled by leaf and plant developmental processes in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2008</b> , 148, 1117-27	6.6	70
95	From phenotypic to molecular polymorphisms involved in naturally occurring variation of plant development. <i>International Journal of Developmental Biology</i> , <b>2005</b> , 49, 717-32	1.9	70
94	Characterization and mapping of a gene controlling shoot regeneration in tomato. <i>Plant Journal</i> , <b>1993</b> , 3, 131-141	6.9	70
93	Genetic dissection of blue-light sensing in tomato using mutants deficient in cryptochrome 1 and phytochromes A, B1 and B2. <i>Plant Journal</i> , <b>2001</b> , 25, 427-40	6.9	68
92	Cell division activity during apical hook development. <i>Plant Physiology</i> , <b>2001</b> , 125, 219-26	6.6	67
91	A strong effect of growth medium and organ type on the identification of QTLs for phytate and mineral concentrations in three <i>Arabidopsis thaliana</i> RIL populations. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 1409-25	7	66
90	Community standards for <i>Arabidopsis</i> genetics. <i>Plant Journal</i> , <b>1997</b> , 12, 247-253	6.9	66

89	The role of cryptochrome 2 in flowering in Arabidopsis. <i>Plant Physiology</i> , <b>2003</b> , 133, 1504-16	6.6	63
88	Quantitative trait loci for glucosinolate accumulation in Brassica rapa leaves. <i>New Phytologist</i> , <b>2008</b> , 179, 1017-1032	9.8	62
87	Quantitative genetics in the age of omics. <i>Current Opinion in Plant Biology</i> , <b>2008</b> , 11, 123-8	9.9	62
86	Genetic basis for natural variation in seed vitamin E levels in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18834-41	11.5	61
85	The root-knot nematode resistance gene (Mi) in tomato: construction of a molecular linkage map and identification of dominant cDNA markers in resistant genotypes. <i>Plant Journal</i> , <b>1992</b> , 2, 971-982	6.9	61
84	PHOTOMORPHOGENETIC MUTANTS OF HIGHER PLANTS*. <i>Photochemistry and Photobiology</i> , <b>1988</b> , 48, 833-841	3.6	61
83	Arabidopsis semidwarfs evolved from independent mutations in GA20ox1, ortholog to green revolution dwarf alleles in rice and barley. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 15818-23	11.5	59
82	Mapping QTLs for mineral accumulation and shoot dry biomass under different Zn nutritional conditions in Chinese cabbage ( <i>Brassica rapa</i> L. ssp. <i>pekinensis</i> ). <i>Plant and Soil</i> , <b>2008</b> , 310, 25-40	4.2	56
81	Importance of the B2 domain of the Arabidopsis ABI3 protein for Em and 2S albumin gene regulation. <i>Plant Molecular Biology</i> , <b>1999</b> , 40, 1045-54	4.6	56
80	Photophysiology and phytochrome content of long-hypocotyl mutant and wild-type cucumber seedlings. <i>Plant Physiology</i> , <b>1988</b> , 87, 264-8	6.6	56
79	Properties of proteins and the glassy matrix in maturation-defective mutant seeds of Arabidopsis thaliana. <i>Plant Journal</i> , <b>1998</b> , 16, 133-43	6.9	53
78	PHOTOCONTROL OF ANTHOCYANIN SYNTHESIS IN TOMATO SEEDLINGS: A GENETIC APPROACH*. <i>Photochemistry and Photobiology</i> , <b>1989</b> , 50, 107-111	3.6	53
77	Tomato chromosome 6: effect of alien chromosomal segments on recombinant frequencies. <i>Genome</i> , <b>1996</b> , 39, 485-91	2.4	50
76	Characterization of green seed, an enhancer of abi3-1 in Arabidopsis that affects seed longevity. <i>Plant Physiology</i> , <b>2003</b> , 132, 1077-84	6.6	49
75	Cytogenetic tools for Arabidopsis thaliana. <i>Chromosome Research</i> , <b>2003</b> , 11, 183-94	4.4	49
74	Molecular, genetic and evolutionary analysis of a paracentric inversion in Arabidopsis thaliana. <i>Plant Journal</i> , <b>2016</b> , 88, 159-178	6.9	47
73	Characterization of mutants with reduced seed dormancy at two novel rdo loci and a further characterization of rdo1 and rdo2 in Arabidopsis. <i>Physiologia Plantarum</i> , <b>2002</b> , 115, 604-612	4.6	47
72	Natural modifiers of seed longevity in the Arabidopsis mutants abscisic acid insensitive3-5 (abi3-5) and leafy cotyledon1-3 (lec1-3). <i>New Phytologist</i> , <b>2009</b> , 184, 898-908	9.8	46

71	Changing paradigms in plant breeding. <i>Plant Physiology</i> , <b>2001</b> , 125, 156-9	6.6	44
70	Analysis of a plant complex resistance gene locus underlying immune-related hybrid incompatibility and its occurrence in nature. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004848	6	43
69	Genetic analysis identifies quantitative trait loci controlling rosette mineral concentrations in <i>Arabidopsis thaliana</i> under drought. <i>New Phytologist</i> , <b>2009</b> , 184, 180-192	9.8	42
68	Quantitative trait loci analysis of phytate and phosphate concentrations in seeds and leaves of <i>Brassica rapa</i> . <i>Plant, Cell and Environment</i> , <b>2008</b> , 31, 887-900	8.4	42
67	The effect of daylength on the transition to flowering in phytochrome-deficient, late-flowering and double mutants of <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , <b>1995</b> , 95, 260-266	4.6	42
66	Quantitative trait loci and candidate genes underlying genotype by environment interaction in the response of <i>Arabidopsis thaliana</i> to drought. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 585-99	8.4	41
65	Six-Rowed Spike3 (VRS3) Is a Histone Demethylase That Controls Lateral Spikelet Development in Barley. <i>Plant Physiology</i> , <b>2017</b> , 174, 2397-2408	6.6	41
64	Genetic analysis <b>1992</b> , 83-99		41
63	Variations in constitutive and inducible UV-B tolerance; dissecting photosystem II protection in <i>Arabidopsis thaliana</i> accessions. <i>Physiologia Plantarum</i> , <b>2010</b> , 138, 22-34	4.6	39
62	Tomato: a crop species amenable to improvement by cellular and molecular methods. <i>Euphytica</i> , <b>1989</b> , 42, 1-23	2.1	38
61	Tomato protoplast DNA transformation: physical linkage and recombination of exogenous DNA sequences. <i>Plant Molecular Biology</i> , <b>1987</b> , 8, 383-94	4.6	37
60	Analysis of phytochrome-deficient yellow-green-2 and aurea mutants of tomato. <i>Plant Journal</i> , <b>1996</b> , 9, 173-182	6.9	36
59	The Footprint of Polygenic Adaptation on Stress-Responsive Cis-Regulatory Divergence in the <i>Arabidopsis</i> Genus. <i>Molecular Biology and Evolution</i> , <b>2016</b> , 33, 2088-101	8.3	34
58	The ELONGATED gene of <i>Arabidopsis</i> acts independently of light and gibberellins in the control of elongation growth. <i>Plant Journal</i> , <b>1996</b> , 9, 305-12	6.9	34
57	Mutations in Barley Row Type Genes Have Pleiotropic Effects on Shoot Branching. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140246	3.7	32
56	Epistatic natural allelic variation reveals a function of AGAMOUS-LIKE6 in axillary bud formation in <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>2012</b> , 24, 2364-79	11.6	31
55	NLR locus-mediated trade-off between abiotic and biotic stress adaptation in <i>Arabidopsis</i> . <i>Nature Plants</i> , <b>2017</b> , 3, 17072	11.5	30
54	Fine mapping of a major QTL for awn length in barley using a multiparent mapping population. <i>Theoretical and Applied Genetics</i> , <b>2017</b> , 130, 269-281	6	30

53	QTL analysis of seed dormancy in Arabidopsis using recombinant inbred lines and MQM mapping. <i>Heredity</i> , <b>1997</b> , 79, 190-200	3.6	30
52	Altered photosynthetic performance of a natural Arabidopsis accession is associated with atrazine resistance. <i>Journal of Experimental Botany</i> , <b>2005</b> , 56, 1625-34	7	30
51	A multi-marker association method for genome-wide association studies without the need for population structure correction. <i>Nature Communications</i> , <b>2016</b> , 7, 13299	17.4	28
50	Characterization of natural variation for zinc, iron and manganese accumulation and zinc exposure response in Brassica rapa L.. <i>Plant and Soil</i> , <b>2007</b> , 291, 167-180	4.2	28
49	Mutations in and caused light-conditional clock deceleration during tomato domestication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7135-7140	11.5	28
48	Multiple loci and genetic interactions involving flowering time genes regulate stem branching among natural variants of Arabidopsis. <i>New Phytologist</i> , <b>2013</b> , 199, 843-57	9.8	27
47	Relation among plant growth, carbohydrates and flowering time in the Arabidopsis Landsberg erecta x Kondara recombinant inbred line population. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 1369-82	8.4	27
46	Photomorphogenic mutants of higher plants <b>1994</b> , 601-628		27
45	Genotype-environment interactions affecting preflowering physiological and morphological traits of Brassica rapa grown in two watering regimes. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 697-708	7	26
44	Somatic hybridization as a tool for tomato breeding. <i>Euphytica</i> , <b>1994</b> , 79, 265-277	2.1	26
43	Histochemical analysis reveals organ-specific quantitative trait loci for enzyme activities in Arabidopsis. <i>Plant Physiology</i> , <b>2004</b> , 134, 237-45	6.6	25
42	Natural variation for anthocyanin accumulation under high-light and low-temperature stress is attributable to the ENHANCER OF AG-4 2 (HUA2) locus in combination with PRODUCTION OF ANTHOCYANIN PIGMENT1 (PAP1) and PAP2. <i>New Phytologist</i> , <b>2015</b> , 206, 422-435	9.8	23
41	Madeiran Arabidopsis thaliana Reveals Ancient Long-Range Colonization and Clarifies Demography in Eurasia. <i>Molecular Biology and Evolution</i> , <b>2018</b> , 35, 564-574	8.3	22
40	Genetic analysis of morphological traits in a new, versatile, rapid-cycling Brassica rapa recombinant inbred line population. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 183	6.2	22
39	A mixed model QTL analysis for a complex cross population consisting of a half diallel of two-way hybrids in Arabidopsis thaliana: analysis of simulated data. <i>Euphytica</i> , <b>2008</b> , 161, 107-114	2.1	22
38	Genetic and molecular organization of the short arm and pericentromeric region of tomato chromosome 6. <i>Euphytica</i> , <b>1994</b> , 79, 169-174	2.1	22
37	Conserved histidine of metal transporter AtNRAMP1 is crucial for optimal plant growth under manganese deficiency at chilling temperatures. <i>New Phytologist</i> , <b>2014</b> , 202, 1173-1183	9.8	21
36	phenoVein-A Tool for Leaf Vein Segmentation and Analysis. <i>Plant Physiology</i> , <b>2015</b> , 169, 2359-70	6.6	21

35	The genetic architecture of freezing tolerance varies across the range of <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 2570-2579	8.4	20
34	QTL analysis. <i>Methods in Molecular Biology</i> , <b>2006</b> , 323, 79-99	1.4	18
33	Reciprocal cybrids reveal how organellar genomes affect plant phenotypes. <i>Nature Plants</i> , <b>2020</b> , 6, 13-21	11.5	17
32	Plants regenerated from auxin-auxotrophic variants are inviable. <i>Molecular Genetics and Genomics</i> , <b>1988</b> , 215, 58-64		16
31	A comparison of population types used for QTL mapping in <i>Arabidopsis thaliana</i> . <i>Plant Genetic Resources: Characterisation and Utilisation</i> , <b>2011</b> , 9, 185-188	1	15
30	Genetic variation in flowering time in <i>Arabidopsis thaliana</i> . <i>Seminars in Cell and Developmental Biology</i> , <b>1996</b> , 7, 381-389	7.5	14
29	Isolation and characterization of nitrate reductase-deficient mutants in tomato ( <i>Lycopersicon esculentum</i> Mill.). <i>Molecular Genetics and Genomics</i> , <b>1991</b> , 227, 458-64		14
28	Genetic Aspects of Seed Dormancy	113-132	13
27	Variation in seed dormancy quantitative trait loci in <i>Arabidopsis thaliana</i> originating from one site. <i>PLoS ONE</i> , <b>2011</b> , 6, e20886	3.7	13
26	Phenotype of <i>Arabidopsis thaliana</i> semi-dwarfs with deep roots and high growth rates under water-limiting conditions is independent of the GA5 loss-of-function alleles. <i>Annals of Botany</i> , <b>2015</b> , 116, 321-31	4.1	12
25	Flowering responses to light-breaks in photomorphogenic mutants of <i>Arabidopsis thaliana</i> , a long-day plant. <i>Physiologia Plantarum</i> , <b>1991</b> , 83, 209-215	4.6	12
24	Quantitative trait loci controlling leaf venation in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 1429-1441	8.4	10
23	Analysis of nuclear and organellar DNA of somatic hybrid calli and plants between <i>Lycopersicon</i> spp. and <i>Nicotiana</i> spp. <i>Molecular Genetics and Genomics</i> , <b>1993</b> , 241, 707-18		10
22	Genes for seed longevity in barley identified by genomic analysis on near isogenic lines. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 1895-1911	8.4	8
21	The TRANSPARENT TESTA12 Gene of <i>Arabidopsis</i> Encodes a Multidrug Secondary Transporter-Like Protein Required for Flavonoid Sequestration in Vacuoles of the Seed Coat Endothelium. <i>Plant Cell</i> , <b>2001</b> , 13, 853	11.6	8
20	Signals of speciation within <i>Arabidopsis thaliana</i> in comparison with its relatives. <i>Current Opinion in Plant Biology</i> , <b>2012</b> , 15, 205-11	9.9	6
19	Genetic analysis. <i>Methods in Molecular Biology</i> , <b>2006</b> , 323, 65-77	1.4	5
18	Asymmetric fusion between protoplasts of tomato ( <i>Lycopersicon esculentum</i> Mill.) and gamma-irradiated protoplasts of potato ( <i>Solanum tuberosum</i> L.): the effects of gamma irradiation. <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 242, 313-20		5

17	Use of leaky nitrate reductase-deficient mutants of tomato ( <i>Lycopersicon esculentum</i> Mill.) for selection of somatic hybrid cell lines with wild type potato ( <i>Solanum tuberosum</i> L.). <i>Plant Cell, Tissue and Organ Culture</i> , <b>1992</b> , 31, 151-154	2.7	5
16	QTL and candidate genes associated with leaf anion concentrations in response to phosphate supply in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , <b>2019</b> , 19, 410	5.3	3
15	Optimization of Direct Gene Transfer in Tomato. <i>Current Plant Science and Biotechnology in Agriculture</i> , <b>1988</b> , 357-358		3
14	Natural Variation in <i>Arabidopsis thaliana</i> <b>2011</b> , 123-151		3
13	Identification and characterization of quantitative trait loci that control seed dormancy in <i>Arabidopsis</i> . <i>Methods in Molecular Biology</i> , <b>2011</b> , 773, 165-84	1.4	2
12	An integrated genetic/RFLP map of the <i>Arabidopsis thaliana</i> genome <b>1993</b> , 3, 745		2
11	The effect of daylength on the transition to flowering in phytochrome-deficient, late-flowering and double mutants of <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , <b>1995</b> , 95, 260-266	4.6	2
10	and Are Key Regulators of Flowering Time in the Biennial/Perennial Species. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 582577	6.2	2
9	A Central Role for Genetics in Plant Biology. <i>Annual Review of Plant Biology</i> , <b>2021</b> , 72, 1-16	30.7	2
8	Dormancy in Plants <b>2007</b> ,		1
7	Conserved Mechanisms of Dormancy and Germination as Targets for Manipulation of Agricultural Problems <b>2006</b> , 11-32		1
6	The evolutionary dynamics of genetic incompatibilities introduced by duplicated genes in <i>Arabidopsis thaliana</i>		1
5	The Evolutionary Dynamics of Genetic Incompatibilities Introduced by Duplicated Genes in <i>Arabidopsis thaliana</i> . <i>Molecular Biology and Evolution</i> , <b>2021</b> , 38, 1225-1240	8.3	0
4	Genetic Aspects of Seed Dormancy <b>2018</b> , 113-132		0
3	My favourite flowering image. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 5801-3	7	
2	Interview with Maarten Koornneef. <i>Trends in Plant Science</i> , <b>2015</b> , 20, 135-6	13.1	
1	Spotlight on phytochrome nomenclature. <i>Plant Molecular Biology Reporter</i> , <b>1994</b> , 12, S50-S56	1.7	