M Koornneef

List of Publications by Citations

111 papers	15,698 citations	59 h-index	111 g-index
111 ext. papers	17,050 ext. citations	6.9 avg, IF	6 L-index

#	Paper	IF	Citations
111	A genetic and physiological analysis of late flowering mutants in Arabidopsis thaliana. *Molecular Genetics and Genomics*, **1991**, 229, 57-66		792
110	The isolation and characterization of abscisic acid-insensitive mutants of Arabidopsis thaliana. *Physiologia Plantarum*, **1984**, 61, 377-383	4.6	789
109	Influence of the testa on seed dormancy, germination, and longevity in Arabidopsis. *Plant Physiology*, **2000**, 122, 403-14	6.6	603
108	Induction and analysis of gibberellin sensitive mutants in Arabidopsis thaliana (L.) heynh. *Theoretical and Applied Genetics*, **1980**, 58, 257-63	6	541
107	Genetic Control of Light-inhibited Hypocotyl Elongation in Arabidopsis thaliana (L.) Heynh. *Zeitschrift F Pflanzenphysiologie*, **1980**, 100, 147-160		506
106	Induction of dormancy during seed development by endogenous abscisic acid: studies on abscisic acid deficient genotypes of Arabidopsis thaliana (L.) Heynh. *Planta*, **1983**, 157, 158-65	4.7	468
105	The late flowering phenotype of fwa mutants is caused by gain-of-function epigenetic alleles of a homeodomain gene. *Molecular Cell*, **2000**, 6, 791-802	17.6	460
104	Analysis of Arabidopsis mutants deficient in flavonoid biosynthesis. *Plant Journal*, **1995**, 8, 659-71	6.9	457
103	The isolation of abscisic acid (ABA) deficient mutants by selection of induced revertants in non-germinating gibberellin sensitive lines of Arabidopsis thaliana (L.) heynh. *Theoretical and Applied Genetics*, **1982**, 61, 385-93	6	457
102	The TRANSPARENT TESTA12 gene of Arabidopsis encodes a multidrug secondary transporter-like protein required for flavonoid sequestration in vacuoles of the seed coat endothelium. *Plant Cell*, **2001**, 13, 853-71	11.6	424
101	Cloning of DOG1, a quantitative trait locus controlling seed dormancy in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17042-7	11.5	413
100	Isolation and characterization of abscisic acid-deficient Arabidopsis mutants at two new loci. *Plant Journal*, **1996**, 10, 655-61	6.9	393
99	Naturally occurring variation in Arabidopsis: an underexploited resource for plant genetics. *Trends in Plant Science*, **2000**, 5, 22-9	13.1	356
98	A QTL for flowering time in Arabidopsis reveals a novel allele of CRY2. *Nature Genetics*, **2001**, 29, 435-40	36.3	335
97	Linkage map of Arabidopsis thaliana. *Journal of Heredity*, **1983**, 74, 265-272	2.4	322
96	Gibberellin requirement for Arabidopsis seed germination is determined both by testa characteristics and embryonic abscisic acid. *Plant Physiology*, **2000**, 122, 415-24	6.6	310
95	The Arabidopsis aldehyde oxidase 3 (AAO3) gene product catalyzes the final step in abscisic acid biosynthesis in leaves. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 12908-13	11.5	306

94	In Vivo Inhibition of Seed Development and Reserve Protein Accumulation in Recombinants of Abscisic Acid Biosynthesis and Responsiveness Mutants in Arabidopsis thaliana. *Plant Physiology*, **1989**, 90, 463-9	6.6	298
93	Arabidopsis thaliana: a model plant for genome analysis. *Science*, **1998**, 282, 662, 679-82	33.3	297
92	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. *Plant Journal*, **1998**, 14, 259-71	6.9	293
91	EMS- and radiation-induced mutation frequencies at individual loci in Arabidopsis thaliana (L.) Heynh. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **1982**, 93, 109-23	3.3	281
90	Regulatory network construction in Arabidopsis by using genome-wide gene expression quantitative trait loci. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 1708-13	11.5	269
89	Acquisition of Desiccation Tolerance and Longevity in Seeds of Arabidopsis thaliana (A Comparative Study Using Abscisic Acid-Insensitive abi3 Mutants). *Plant Physiology*, **1993**, 102, 1185-1191	6.6	266
88	Natural allelic variation at seed size loci in relation to other life history traits of Arabidopsis thaliana. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 4710-7	11.5	229
87	Biochemical characterization of the aba2 and aba3 mutants in Arabidopsis thaliana. *Plant Physiology*, **1997**, 114, 161-6	6.6	213
86	The BANYULS gene encodes a DFR-like protein and is a marker of early seed coat development. *Plant Journal*, **1999**, 19, 387-98	6.9	200
85	Endogenous gibberellins in Arabidopsis thaliana and possible steps blocked in the biosynthetic pathways of the semidwarf ga4 and ga5 mutants. *Proceedings of the National Academy of Sciences of the United States of America*, **1990**, 87, 7983-7	11.5	195
84	Analysis of natural allelic variation at flowering time loci in the Landsberg erecta and Cape Verde Islands ecotypes of Arabidopsis thaliana. *Genetics*, **1998**, 149, 749-64	4	187
83	ANTHOCYANINLESS2, a homeobox gene affecting anthocyanin distribution and root development in Arabidopsis. *Plant Cell*, **1999**, 11, 1217-26	11.6	185
82	Genetic interactions among late-flowering mutants of Arabidopsis. *Genetics*, **1998**, 148, 885-92	4	182
81	Sequential steps for developmental arrest in Arabidopsis seeds. *Development (Cambridge)*, **2001**, 128, 243-252	6.6	176
80	Phytochrome B and at Least One Other Phytochrome Mediate the Accelerated Flowering Response of Arabidopsis thaliana L. to Low Red/Far-Red Ratio. *Plant Physiology*, **1994**, 104, 1311-1315	6.6	170
79	Genetic analysis of seed-soluble oligosaccharides in relation to seed storability of Arabidopsis. *Plant Physiology*, **2000**, 124, 1595-604	6.6	163
78	Natural allelic variation identifies new genes in the Arabidopsis circadian system. *Plant Journal*, **1999**, 20, 67-77	6.9	158
77	Natural variation for seed dormancy in Arabidopsis is regulated by additive genetic and molecular pathways. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4264-9	11.5	152

76	Vacuolar invertase regulates elongation of Arabidopsis thaliana roots as revealed by QTL and mutant analysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 2994-9	11.5	149
75	A Seed Shape Mutant of Arabidopsis That Is Affected in Integument Development. *Plant Cell*, **1994**, 6, 385-392	11.6	142
74	Natural variation and QTL analysis for cationic mineral content in seeds of Arabidopsis thaliana. *Plant, Cell and Environment*, **2004**, 27, 828-839	8.4	137
73	Photomorphogenic Responses of Long Hypocotyl Mutants of Tomato. *Journal of Plant Physiology*, **1985**, 120, 153-165	3.6	134
72	A genetic analysis of cell culture traits in tomato. *Theoretical and Applied Genetics*, **1987**, 74, 633-41	6	132
71	Arabidopsis mutants with a reduced seed dormancy. *Plant Physiology*, **1996**, 110, 233-40	6.6	124
70	Analysis of natural allelic variation in Arabidopsis using a multiparent recombinant inbred line population. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 4488-93	11.5	122
69	The genetics of phytate and phosphate accumulation in seeds and leaves of Arabidopsis thaliana, using natural variation. *Theoretical and Applied Genetics*, **2003**, 106, 1234-43	6	119
68	Seed maturation in Arabidopsis thaliana is characterized by nuclear size reduction and increased chromatin condensation. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 20219-24	11.5	107
67	QTL analysis of seed dormancy in Arabidopsis using recombinant inbred lines and MQM mapping. *Heredity*, **1997**, 79 (Pt 2), 190-200	3.6	106
66	Accumulation of C19-gibberellins in the gibberellin-insensitive dwarf mutantgai ofArabidopsis thaliana (L.) Heynh. *Planta*, **1990**, 182, 501-5	4.7	99
65	The isolation and characterization of gibberellin-deficient mutants in tomato. *Theoretical and Applied Genetics*, **1990**, 80, 852-7	6	95
64	Far-red light-insensitive, phytochrome A-deficient mutants of tomato. *Molecular Genetics and Genomics*, **1995**, 246, 133-41		94
63	Gene function beyond the single trait: natural variation, gene effects, and evolutionary ecology in Arabidopsis thaliana. *Plant, Cell and Environment*, **2005**, 28, 2-20	8.4	92
62	RFLP markers linked to the root knot nematode resistance gene Mi in tomato. *Theoretical and Applied Genetics*, **1991**, 81, 661-7	6	89
61	Sequential steps for developmental arrest in Arabidopsis seeds. *Development (Cambridge)*, **2001**, 128, 243-52	6.6	87
60	Photomorphogenic mutants of tomato. *Plant, Cell and Environment*, **1997**, 20, 746-751	8.4	82
59	The aurea mutant of tomato is deficient in spectrophotometrically and immunochemically detectable phytochrome. *Plant Molecular Biology*, **1987**, 9, 97-107	4.6	76

58	Somaclonal variation in tomato: effect of explant source and a comparison with chemical mutagenesis. *Theoretical and Applied Genetics*, **1990**, 80, 817-25	6	75
57	Physiological interactions of phytochromes A, B1 and B2 in the control of development in tomato. *Plant Journal*, **2000**, 24, 345-56	6.9	71
56	A Temporarily Red Light-Insensitive Mutant of Tomato Lacks a Light-Stable, B-Like Phytochrome. *Plant Physiology*, **1995**, 108, 939-947	6.6	70
55	Genetic dissection of blue-light sensing in tomato using mutants deficient in cryptochrome 1 and phytochromes A, B1 and B2. *Plant Journal*, **2001**, 25, 427-40	6.9	68
54	Genetic basis for natural variation in seed vitamin E levels in Arabidopsis thaliana. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 18834-41	11.5	61
53	Genetic approaches in plant physiology. *New Phytologist*, **1997**, 137, 1-8	9.8	60
52	Arabidopsis semidwarfs evolved from independent mutations in GA20ox1, ortholog to green revolution dwarf alleles in rice and barley. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 15818-23	11.5	59
51	High Pigment Mutants of Tomato Exhibit High Sensitivity for Phytochrome Action. *Journal of Plant Physiology*, **1989**, 134, 661-666	3.6	58
50	Immunochemically detectable phytochrome is present at normal levels but is photochemically nonfunctional in the hy 1 and hy 2 long hypocotyl mutants of Arabidopsis. *Plant Molecular Biology*, **1989**, 12, 425-37	4.6	57
49	Photophysiology of a Tomato Mutant Deficient in Labile Phytochrome. *Journal of Plant Physiology*, **1988**, 133, 436-440	3.6	57
48	Importance of the B2 domain of the Arabidopsis ABI3 protein for Em and 2S albumin gene regulation. *Plant Molecular Biology*, **1999**, 40, 1045-54	4.6	56
47	Photophysiology and phytochrome content of long-hypocotyl mutant and wild-type cucumber seedlings. *Plant Physiology*, **1988**, 87, 264-8	6.6	56
46	Three QTLs from Lycopersicon peruvianum confer a high level of resistance to Clavibactermichiganensis ssp. michiganensis. *Theoretical and Applied Genetics*, **1999**, 99, 1068-1074	6	55
45	The early-flowering mutant efs is involved in the autonomous promotion pathway of Arabidopsis thaliana. *Development (Cambridge)*, **1999**, 126, 4763-4770	6.6	55
44	Properties of proteins and the glassy matrix in maturation-defective mutant seeds of Arabidopsis thaliana. *Plant Journal*, **1998**, 16, 133-43	6.9	53
43	The role of endogenous gibberellins during fruit and seed development: Studies on gibberellin-deficient genotypes of Arabidopsis thaliana. *Physiologia Plantarum*, **1986**, 67, 315-319	4.6	52
42	Photomorphogenetic Responses of a Long Hypocotyl Mutant of Cucumis sativus L.. *Journal of Plant Physiology*, **1987**, 127, 481-491	3.6	52
41	Tomato chromosome 6: effect of alien chromosomal segments on recombinant frequencies. *Genome*, **1996**, 39, 485-91	2.4	50

40	Restriction fragment length polymorphism analysis of somatic hybrids between Lycopersicon esculentum and irradiated L. peruvianum: evidence for limited donor genome elimination and extensive chromosome rearrangements. *Molecular Genetics and Genomics*, **1990**, 222, 270-7		50
39	The root-knot nematode resistance gene (Mi) in tomato: construction of a molecular linkage map and identification of dominant cDNA markers in resistant genotypes. *Plant Journal*, **1992**, 2, 971-82	6.9	49
38	The mapping of phytochrome genes and photomorphogenic mutants of tomato. *Theoretical and Applied Genetics*, **1997**, 94, 115-22	6	47
37	Changing paradigms in plant breeding. *Plant Physiology*, **2001**, 125, 156-9	6.6	44
36	Mitotic and meiotic irregularities in somatic hybrids of Lycopersicon esculentum and Solanum tuberosum. *Genome*, **1994**, 37, 726-35	2.4	44
35	Trisomics inArabidopsis thaliana and the location of linkage groups. *Genetica*, **1983**, 61, 41-46	1.5	43
34	Phytochrome Control of Anthocyanin Biosynthesis in Tomato Seedlings: Analysis Using Photomorphogenic Mutants. *Photochemistry and Photobiology*, **1997**, 65, 374-381	3.6	40
33	Chromosomal instability in cell- and tissue cultures of tomato haploids and diploids. *Euphytica*, **1989**, 43, 179-186	2.1	39
32	Asymmetric somatic hybrids between Lycopersicon esculentum and irradiated Lycopersicon peruvianum : 2. Analysis with marker genes. *Theoretical and Applied Genetics*, **1990**, 80, 665-72	6	36
31	Genetic fine-structure of the GA-1 locus in the higher plant Arabidopsis thaliana (L.) Heynh. *Genetical Research*, **1983**, 41, 57-68	1.1	33
30	Integration of the classical and molecular linkage maps of tomato chromosome 6. *Genetics*, **1993**, 135, 1175-86	4	33
29	Asymmetric somatic hybrids between Lycopersicon esculentum and irradiated Lycopersicon peruvianum : 1. Cytogenetics and morphology. *Theoretical and Applied Genetics*, **1990**, 80, 305-12	6	29
28	Physiological characterization of exaggerated-photoresponse mutants of tomato. *Journal of Plant Physiology*, **1997**, 150, 578-587	3.6	28
27	Molecular analysis of tri-mutant alleles in tomato indicates the Tri locus is the gene encoding the apoprotein of phytochrome B1. *Planta*, **1996**, 199, 152-157	4.7	28
26	Characterisation of the procera mutant of tomato and the interaction of gibberellins with end-of-day far-red light treatments. *Physiologia Plantarum*, **1999**, 106, 121-128	4.6	27
25	Tomato chromosome 6: a high resolution map of the long arm and construction of a composite integrated marker-order map. *Theoretical and Applied Genetics*, **1996**, 92, 1065-72	6	25
24	Selection and characterization of somatic hybrids between Lycopersicon esculentum and Lycopersicon peruvianum. *Plant Science*, **1990**, 70, 197-208	5.3	25
23	Pleiotropic effects of the Arabidopsis cryptochrome 2 allelic variation underlie fruit trait-related QTL. *Plant Biology*, **2004**, 6, 370-4	3.7	24

22	Floral transition mutants in Arabidopsis. *Plant, Cell and Environment*, **1997**, 20, 779-784	8.4	20
21	Allotriploid somatic hybrids of diploid tomato (Lycopersicon esculentum Mill.) and monoploid potato (Solanum tuberosum L.). *Theoretical and Applied Genetics*, **1993**, 87, 328-36	6	17
20	Transfer of regeneration capacity from Lycopersicon peruvianum to L. esculentum by protoplast fusion. *Plant Cell, Tissue and Organ Culture*, **1988**, 12, 193-196	2.7	17
19	Asymmetric somatic hybridization between tomato (Lycopersicon esculentum Mill) and gamma-irradiated potato (Solanum tuberosum L.): a quantitative analysis. *Theoretical and Applied Genetics*, **1994**, 87, 713-20	6	16
18	Molecular mapping around the centromere of tomato chromosome 6 using irradiation-induced deletions. *Theoretical and Applied Genetics*, **1997**, 95, 969-974	6	15
17	The use of telotrisomics for centromere mapping in Arabidopsis thaliana (L.) Heynh.. *Genetica*, **1983**, 62, 33-40	1.5	14
16	Isolation of a new paramutagenic allele of thesulfurea locus in the tomato cultivar Moneymaker following in vitro culture. *Theoretical and Applied Genetics*, **1993**, 87, 289-94	6	11
15	Genetic analysis. *Methods in Molecular Biology*, **1998**, 82, 105-17	1.4	7
14	Tomato chromosome 6: a high resolution map of the long arm and construction of a composite integrated marker-order map **1996**, 92, 1065		7
13	Plant development: timing when to flower. *Current Biology*, **1997**, 7, R651-2	6.3	6
12	Paracentromeric sequences on tomato chromosome 6 show homology to human satellite III and to the mammalian CENP-B binding box. *Molecular Genetics and Genomics*, **1998**, 259, 190-7		6
11	The Physiology of Photomorphogenetic Tomato Mutants **1991**, 237-247		6
10	Isolation of higher plant developmental mutants. *Symposia of the Society for Experimental Biology*, **1991**, 45, 1-19		5
9	A genetic analysis of a tomato (Lycopersicon esculentum) genotype with a high frequency of twin spots. *Theoretical and Applied Genetics*, **1995**, 91, 1162-6	6	3
8	The Benefit of Biosynthesis and Response Mutants to the Study of the Role of Abscisic Acid in Plants **1990**, 23-31		3
7	Photomorphogenetic mutants of higher plants. *Current Plant Science and Biotechnology in Agriculture*, **1992**, 54-64		2
6	Role of Endogenous Gibberellins During Fruit and Seed Development **1991**, 179-187		2
5	Transfer of Regeneration Capacity from Lycopersicon Peruvianum to L. Esculentum by Protoplast Fusion. *Current Plant Science and Biotechnology in Agriculture*, **1988**, 227-230		0

4 My favourite flowering image. *Journal of Experimental Botany*, **2013**, 64, 5801-3 7

3 Genetic and Molecular Analysis of Growth Responses to Environmental Factors Using Arabidopsis Thaliana Natural Variation1-13

2 Partial Genome Transfer in Interspecific Tomato Hybrids. *Current Plant Science and Biotechnology in Agriculture*, **1990**, 280-285

1 The Significance of Mutants in Phytochrome Research **1991**, 437-443