Martin M Kater

List of Publications by Year
in descending order

78 papers	9,219 citations	50276 46 h-index	71685 76 g-index
82 all docs	82 docs citations	82 times ranked	8327 citing authors

#	Article	IF	Citations
1	The genome of the domesticated apple (Malus Ã— domestica Borkh.). Nature Genetics, 2010, 42, 833-839.	21.4	1,891
2	Molecular and Phylogenetic Analyses of the Complete MADS-Box Transcription Factor Family in Arabidopsis. Plant Cell, 2003, 15, 1538-1551.	6.6	758
3	Comprehensive Interaction Map of the Arabidopsis MADS Box Transcription Factors. Plant Cell, 2005, 17, 1424-1433.	6.6	528
4	MADS-Box Protein Complexes Control Carpel and Ovule Development in Arabidopsis. Plant Cell, 2003, 15, 2603-2611.	6.6	499
5	AGL24, SHORT VEGETATIVE PHASE, and APETALA1 Redundantly Control AGAMOUS during Early Stages of Flower Development in Arabidopsis. Plant Cell, 2006, 18, 1373-1382.	6.6	207
6	The Dâ€lineage MADSâ€box gene <i>OsMADS13</i> controls ovule identity in rice. Plant Journal, 2007, 52, 690-699.	5.7	190
7	The Arabidopsis floral meristem identity genes AP1, AGL24 and SVP directly repress class B and C floral homeotic genes. Plant Journal, 2009, 60, 626-637.	5.7	182
8	Genetic and Molecular Interactions between BELL1 and MADS Box Factors Support Ovule Development in<i>Arabidopsis</i>. Plant Cell, 2007, 19, 2544-2556.	6.6	178
9	The Emerging Importance of Type I MADS Box Transcription Factors for Plant Reproduction. Plant Cell, 2011, 23, 865-872.	6.6	177
10	Functional conservation of MADS-box factors controlling floral organ identity in rice and Arabidopsis. Journal of Experimental Botany, 2006, 57, 3433-3444.	4.8	165
11	Functional Characterization of OsMADS18, a Member of the AP1/SQUA Subfamily of MADS Box Genes. Plant Physiology, 2004, 135, 2207-2219.	4.8	164
12	Multiple AGAMOUS Homologs from Cucumber and Petunia Differ in Their Ability to Induce Reproductive Organ Fate. Plant Cell, 1998, 10, 171-182.	6.6	154
13	Functional Analysis of All AGAMOUS Subfamily Members in Rice Reveals Their Roles in Reproductive Organ Identity Determination and Meristem Determinacy. Plant Cell, 2011, 23, 2850-2863.	6.6	140
14	OsMADS13, a novel rice MADS-box gene expressed during ovule development. , 1999, 25, 237-244.		137
15	Identification of pathways directly regulated by SHORT VEGETATIVE PHASE during vegetative and reproductive development in Arabidopsis. Genome Biology, 2013, 14, R56.	8.8	134
16	SHORT VEGETATIVE PHASE reduces gibberellin biosynthesis at the <i>Arabidopsis</i> shoot apex to regulate the floral transition. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2760-9.	7.1	132
17	Rice <i>MADS6</i> Interacts with the Floral Homeotic Genes <i>SUPERWOMAN1</i>, <i>MADS3</i>, <i>MADS58</i>, <i>MADS13</i>, and <i>DROOPING LEAF</i> in Specifying Floral Organ Identities and Meristem Fate. Plant Cell, 2011, 23, 2536-2552.	6.6	131
18	<i>AGL23</i>, a type I MADSâ€box gene that controls female gametophyte and embryo development in Arabidopsis. Plant Journal, 2008, 54, 1037-1048.	5.7	130

#	ARTICLE	IF	CITATIONS
19	BASIC PENTACYSTEINE1, a GA Binding Protein That Induces Conformational Changes in the Regulatory Region of the Homeotic Arabidopsis Gene SEEDSTICK. Plant Cell, 2005, 17, 722-729.	6.6	126
20	PGR5-PGRL1-Dependent Cyclic Electron Transport Modulates Linear Electron Transport Rate in Arabidopsis thaliana. Molecular Plant, 2016, 9, 271-288.	8.3	119
21	Genome-Wide Transcriptome Analysis During Anthesis Reveals New Insights into the Molecular Basis of Heat Stress Responses in Tolerant and Sensitive Rice Varieties. Plant and Cell Physiology, 2016, 57, 57-68.	3.1	118
22	Sex Determination in the Monoecious Species Cucumber Is Confined to Specific Floral Whorls. Plant Cell, 2001, 13, 481-493.	6.6	117
23	The Arabidopsis <i>SOC1</i>â€‐like genes <i>AGL42</i>, <i>AGL71</i> and <i>AGL72</i> promote flowering in the shoot apical and axillary meristems. Plant Journal, 2011, 67, 1006-1017.	5.7	117
24	<i>AGAMOUSâ€‐LIKE24</i> and <i>SHORT VEGETATIVE PHASE</i> determine floral meristem identity in Arabidopsis. Plant Journal, 2008, 56, 891-902.	5.7	116
25	<i><scp>MADS</scp></i> reloaded: evolution of the <scp><i>AGAMOUS</i></scp> subfamily genes. New Phytologist, 2014, 201, 717-732.	7.3	116
26	The MADS box genes <i>SEEDSTICK</i> and <i>ARABIDOPSIS B</i>_{<i>sister</i>} play a maternal role in fertilization and seed development. Plant Journal, 2012, 70, 409-420.	5.7	109
27	Ternary Complex Formation between MADS-box Transcription Factors and the Histone Fold Protein NF-YB. Journal of Biological Chemistry, 2002, 277, 26429-26435.	3.4	104
28	Optimization of lipid production in the oleaginous yeastApiotrichum curvatum in wheypermeate. Applied Microbiology and Biotechnology, 1988, 29, 211-218.	3.6	99
29	Arabidopsis plants lacking PsbQ and PsbR subunits of the oxygenâ€evolving complex show altered <scp>PSII</scp> superâ€complex organization and shortâ€term adaptive mechanisms. Plant Journal, 2013, 75, 671-684.	5.7	99
30	Arabidopsis ovule development and its evolutionary conservation. Trends in Plant Science, 2008, 13, 444-450.	8.8	95
31	<i>VERDANDI</i>Is a Direct Target of the MADS Domain Ovule Identity Complex and Affects Embryo Sac Differentiation in<i>Arabidopsis</i>Â. Plant Cell, 2010, 22, 1702-1715.	6.6	92
32	Comparative analysis of rice MADS-box genes expressed during flower development. Sexual Plant Reproduction, 2002, 15, 113-122.	2.2	91
33	Versatile roles of Arabidopsis plastid ribosomal proteins in plant growth and development. Plant Journal, 2012, 72, 922-934.	5.7	89
34	SEEDSTICK is a Master Regulator of Development and Metabolism in the Arabidopsis Seed Coat. PLoS Genetics, 2014, 10, e1004856.	3.5	86
35	OsJAR1 is required for JA-regulated floret opening and anther dehiscence in rice. Plant Molecular Biology, 2014, 86, 19-33.	3.9	85
36	NEC1, a novel gene, highly expressed in nectary tissue of Petunia hybrida. Plant Journal, 2000, 24, 725-734.	5.7	82

#	Article	IF	Citations
37	A new role for the SHATTERPROOF genes during Arabidopsis gynoecium development. Developmental Biology, 2010, 337, 294-302.	2.0	76
38	BASIC PENTACYSTEINE Proteins Mediate MADS Domain Complex Binding to the DNA for Tissue-Specific Expression of Target Genes in <i>Arabidopsis</i>. Plant Cell, 2012, 24, 4163-4172.	6.6	75
39	Optimization of lipid production in the oleaginous yeast Apiotrichum curvatum in wheypermeate. Applied Microbiology and Biotechnology, 1988, 29, 211-218.	3.6	72
40	cDNA cloning and expression of Brassica napus enoyl-acyl carrier protein reductase in Escherichia coli. Plant Molecular Biology, 1991, 17, 895-909.	3.9	65
41	MADS Domain Transcription Factors Mediate Short-Range DNA Looping That Is Essential for Target Gene Expression in Arabidopsis. Plant Cell, 2013, 25, 2560-2572.	6.6	65
42	The rice StMADS11-like genes OsMADS22 and OsMADS47 cause floral reversions in Arabidopsis without complementing the svp and agl24 mutants. Journal of Experimental Botany, 2008, 59, 2181-2190.	4.8	58
43	Class I BASIC PENTACYSTEINE factors regulate HOMEOBOX genes involved in meristem size maintenance. Journal of Experimental Botany, 2014, 65, 1455-1465.	4.8	57
44	Gene expression profiling of reproductive meristem types in early rice inflorescences by laser microdissection. Plant Journal, 2016, 86, 75-88.	5.7	56
45	Analysis of the arabidopsis REM gene family predicts functions during flower development. Annals of Botany, 2014, 114, 1507-1515.	2.9	55
46	CRISPR-mediated accelerated domestication of African rice landraces. PLoS ONE, 2020, 15, e0229782.	2.5	53
47	TBP-associated factors in Arabidopsis. Gene, 2004, 342, 231-241.	2.2	51
48	Gynoecium size and ovule number are interconnected traits that impact seed yield. Journal of Experimental Botany, 2020, 71, 2479-2489.	4.8	51
49	Reversible male sterility in eggplant (<i>Solanum melongena</i> L.) by artificial microRNAâ€mediated silencing of general transcription factor genes. Plant Biotechnology Journal, 2011, 9, 684-692.	8.3	48
50	OsMADS16 Genetically Interacts with OsMADS3 and OsMADS58 in Specifying Floral Patterning in Rice. Molecular Plant, 2013, 6, 743-756.	8.3	46
51	The use of a hybrid genetic system to study the functional relationship between prokaryotic and plant multi-enzyme fatty acid synthetase complexes. Plant Molecular Biology, 1994, 25, 771-790.	3.9	44
52	The Arabidopsis TFIID factor AtTAF6 controls pollen tube growth. Developmental Biology, 2005, 285, 91-100.	2.0	42
53	Uncovering genetic and molecular interactions among floral meristem identity genes in <i>Arabidopsis thaliana</i>. Plant Journal, 2012, 69, 881-893.	5.7	42
54	Cauliflower fractal forms arise from perturbations of floral gene networks. Science, 2021, 373, 192-197.	12.6	37

#	Article	IF	Citations
55	The Arabidopsis BET Bromodomain Factor GTE4 Is Involved in Maintenance of the Mitotic Cell Cycle during Plant Development. Plant Physiology, 2010, 152, 1320-1334.	4.8	34
56	BPC transcription factors and a Polycomb Group protein confine the expression of the ovule identity gene <i>SEEDSTICK</i> in Arabidopsis. Plant Journal, 2020, 102, 582-599.	5.7	34
57	Peptide aptamers: The versatile role of specific protein function inhibitors in plant biotechnology. Journal of Integrative Plant Biology, 2015, 57, 892-901.	8.5	33
58	A Genomic View of Alternative Splicing of Long Non-coding RNAs during Rice Seed Development Reveals Extensive Splicing and lncRNA Gene Families. Frontiers in Plant Science, 2018, 9, 115.	3.6	31
59	The Ins and Outs of the Rice AGAMOUS Subfamily. Molecular Plant, 2013, 6, 650-664.	8.3	29
60	Gene coexpression patterns during early development of the native Arabidopsis reproductive meristem: novel candidate developmental regulators and patterns of functional redundancy. Plant Journal, 2014, 79, 861-877.	5.7	29
61	Suppression of cell expansion by ectopic expression of theArabidopsis SUPERMANgene in transgenic petunia and tobacco. Plant Journal, 2000, 23, 407-413.	5.7	26
62	Flower Development: Open Questions and Future Directions. Methods in Molecular Biology, 2014, 1110, 103-124.	0.9	26
63	MADS-Box and bHLH Transcription Factors Coordinate Transmitting Tract Development in Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 526.	3.6	25
64	Genes of the <i>RAV</i> Family Control Heading Date and Carpel Development in Rice. Plant Physiology, 2020, 183, 1663-1680.	4.8	25
65	Functional analysis of MADS-box genes controlling ovule development in Arabidopsis using the ethanol-inducible alc gene-expression system. Mechanisms of Development, 2006, 123, 267-276.	1.7	24
66	TAF13 interacts with PRC2 members and is essential for Arabidopsis seed development. Developmental Biology, 2013, 379, 28-37.	2.0	22
67	Alternative Splicing Generates a MONOPTEROS Isoform Required for Ovule Development. Current Biology, 2021, 31, 892-899.e3.	3.9	22
68	REM34 and REM35 Control Female and Male Gametophyte Development in Arabidopsis thaliana. Frontiers in Plant Science, 2019, 10, 1351.	3.6	19
69	Panicle Development. , 2013, , 279-295.		18
70	Lipid production in wheypermeate by an unsaturated fatty acid mutant of the oleaginous yeastApiotrichum curvatum. Biotechnology Letters, 1989, 11, 477-482.	2.2	17
71	Early cold stress responses in post-meiotic anthers from tolerant and sensitive rice cultivars. Rice, 2019, 12, 94.	4.0	11
72	The NADH-specific enoyl-acyl carrier protein reductase: Characterization of a housekeeping gene involved in storage lipid synthesis in seeds of arabidopsis and other plant species. Plant Physiology and Biochemistry, 1998, 36, 473-486.	5.8	10

#	Article	IF	Citations
73	The Arabidopsis BET bromodomain factor GTE4 regulates the mitotic cell cycle. Plant Signaling and Behavior, 2010, 5, 677-680.	2.4	10
74	Transcriptome analysis reveals rice MADS13 as an important repressor of the carpel development pathway in ovules. Journal of Experimental Botany, 2021, 72, 398-414.	4.8	7
75	Optimization of lipid production in the oleaginous yeastApiotrichum curvatum in wheypermeate. Applied Microbiology and Biotechnology, 1988, 29, 211-218.	3.6	6
76	The use of floral homeotic mutants as a novel way to obtain durable resistance to insect pests. Plant Biotechnology Journal, 2003, 1, 123-127.	8.3	5
77	Crop reproductive meristems in the genomic era: a brief overview. Biochemical Society Transactions, 2020, 48, 853-865.	3.4	3
78	Functionally Divergent Splicing Variants of the Rice AGAMOUS Ortholog OsMADS3 Are Evolutionary Conserved in Grasses. Frontiers in Plant Science, 2020, 11, 637.	3.6	2