GÃ¼nter TheiÃen

List of Publications by Year
in descending order

		50170	43802
103 papers	11,467 citations	46 h-index	91 g-index
109 all docs	109 docs citations	109 times ranked	8859 citing authors

#	Article	IF	Citations
1	The Norway spruce genome sequence and conifer genome evolution. Nature, 2013, 497, 579-584.	13.7	1,303
2	The major clades of MADS-box genes and their role in the development and evolution of flowering plants. Molecular Phylogenetics and Evolution, 2003, 29, 464-489.	1.2	827
3	Floral quartets. Nature, 2001, 409, 469-471.	13.7	826
4	Development of floral organ identity: stories from the MADS house. Current Opinion in Plant Biology, 2001, 4, 75-85.	3.5	799
5	The Selaginella Genome Identifies Genetic Changes Associated with the Evolution of Vascular Plants. Science, 2011, 332, 960-963.	6.0	794
6	MIKC-type MADS-domain proteins: structural modularity, protein interactions and network evolution in land plants. Gene, 2005, 347, 183-198.	1.0	484
7	Classification and phylogeny of the MADS-box multigene family suggest defined roles of MADS-box gene subfamilies in the morphological evolution of eukaryotes. Journal of Molecular Evolution, 1996, 43, 484-516.	0.8	467
8	The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. Cell, 2018, 174, 448-464.e24.	13.5	420
9	MADS-domain transcription factors and the floral quartet model of flower development: linking plant development and evolution. Development (Cambridge), 2016, 143, 3259-3271.	1.2	346
10	Functional conservation and diversification of class E floral homeotic genes in rice (<i>Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	2.8	223
11	Two Ancient Classes of MIKC-type MADS-box Genes are Present in the Moss Physcomitrella patens. Molecular Biology and Evolution, 2002, 19, 801-814.	3.5	216
12	And then there were many: MADS goes genomic. Trends in Plant Science, 2003, 8, 475-483.	4.3	179
13	Evolution of Class B Floral Homeotic Proteins: Obligate Heterodimerization Originated from Homodimerization. Molecular Biology and Evolution, 2002, 19, 587-596.	3.5	167
14	Molecular mechanisms involved in convergent crop domestication. Trends in Plant Science, 2013, 18, 704-714.	4.3	150
15	MADS-Box Gene Diversity in Seed Plants 300 Million Years Ago. Molecular Biology and Evolution, 2000, 17, 1425-1434.	3.5	145
16	FLOWERING LOCUS C in monocots and the tandem origin of angiosperm-specific MADS-box genes. Nature Communications, 2013, 4, 2280.	5.8	142
17	The class E floral homeotic protein SEPALLATA3 is sufficient to loop DNA in â€˜floral quartetâ€™-like complexes in vitro. Nucleic Acids Research, 2009, 37, 144-157.	6.5	141
18	MADS about the evolution of orchid flowers. Trends in Plant Science, 2008, 13, 51-59.	4.3	139

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19	Why are orchid flowers so diverse? Reduction of evolutionary constraints by paralogues of class B floral homeotic genes. Annals of Botany, 2009, 104, 583-594.	1.4	135
20	Reconstitution of â€˜floral quartetsâ€™ in vitro involving class B and class E floral homeotic proteins. Nucleic Acids Research, 2009, 37, 2723-2736.	6.5	133
21	Conserved differential expression of paralogous <i>DEFICIENS</i>â€•and <i>GLOBOSA</i>â€like MADSâ€box genes in the flowers of Orchidaceae: refining the â€˜orchid codeâ€™. Plant Journal, 2011, 66, 1008-1019.	2.8	125
22	On the origin of MADS-domain transcription factors. Trends in Genetics, 2010, 26, 149-153.	2.9	123
23	Genomewide Structural Annotation and Evolutionary Analysis of the Type I MADS-Box Genes in Plants. Journal of Molecular Evolution, 2003, 56, 573-586.	0.8	109
24	Characterization of three GLOBOSA -like MADS-box genes from maize: evidence for ancient paralogy in one class of floral homeotic B-function genes of grasses. Gene, 2001, 262, 1-13.	1.0	108
25	Evolutionary game theory: cells as players. Molecular BioSystems, 2014, 10, 3044-3065.	2.9	108
26	Functional Conservation of MIKC*-Type MADS Box Genes in <i>Arabidopsis</i> and Rice Pollen Maturation Â. Plant Cell, 2013, 25, 1288-1303.	3.1	106
27	MADS-box genes active in developing pollen cones of Norway spruce (Picea abies) are homologous to the B-class floral homeotic genes in angiosperms. , 1999, 25, 253-266.		103
28	MADS goes genomic in conifers: towards determining the ancestral set of MADS-box genes in seed plants. Annals of Botany, 2014, 114, 1407-1429.	1.4	101
29	Saltational evolution: hopeful monsters are here to stay. Theory in Biosciences, 2009, 128, 43-51.	0.6	99
30	Structural Basis for the Oligomerization of the MADS Domain Transcription Factor SEPALLATA3 in <i>Arabidopsis</i> Â. Plant Cell, 2014, 26, 3603-3615.	3.1	97
31	The proper place of hopeful monsters in evolutionary biology. Theory in Biosciences, 2006, 124, 349-369.	0.6	96
32	Loss of deeply conserved C-class floral homeotic gene function and C- and E-class protein interaction in a double-flowered ranunculid mutant. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2267-75.	3.3	96
33	The naked and the dead: The ABCs of gymnosperm reproduction and the origin of the angiosperm flower. Seminars in Cell and Developmental Biology, 2010, 21, 118-128.	2.3	93
34	ADEF/GLO-like MADS-box gene from a gymnosperm:Pinus radiata contains an ortholog of angiosperm B class floral homeotic genes. , 1999, 25, 245-252.		87
35	On the origin of class B floral homeotic genes: functional substitution and dominant inhibition inArabidopsisby expression of an orthologue from the gymnospermGnetum. Plant Journal, 2002, 31, 457-475.	2.8	81
36	The <scp>ABC</scp>s of flower development: mutational analysis of <i><scp>AP</scp>1</i>/<i><scp>FUL</scp></i>â€like genes in rice provides evidence for a homeotic (A)â€function in grasses. Plant Journal, 2017, 89, 310-324.	2.8	76

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37	Live and Let Die - The Bsister MADS-Box Gene OsMADS29 Controls the Degeneration of Cells in Maternal Tissues during Seed Development of Rice (Oryza sativa). PLoS ONE, 2012, 7, e51435.	1.1	73
38	Evidence that an evolutionary transition from dehiscent to indehiscent fruits in <i><scp>L</scp>epidium</i> (<scp>B</scp>rassicaceae) was caused by a change in the control of valve margin identity genes. Plant Journal, 2013, 73, 824-835.	2.8	71
39	Phylogenomics of MADS-Box Genes in Plants â€” Two Opposing Life Styles in One Gene Family. Biology, 2013, 2, 1150-1164.	1.3	70
40	Phylogenomics reveals surprising sets of essential and dispensable clades of MIKC^câ€group MADSâ€box genes in flowering plants. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 353-362.	0.6	69
41	Molecular interactions of orthologues of floral homeotic proteins from the gymnosperm Gnetum gnemon provide a clue to the evolutionary origin of â€˜floral quartetsâ€™. Plant Journal, 2010, 64, 177-190.	2.8	68
42	Arabidopsis SEPALLATA proteins differ in cooperative DNA-binding during the formation of floral quartet-like complexes. Nucleic Acids Research, 2014, 42, 10927-10942.	6.5	68
43	Orthology: Secret life of genes. Nature, 2002, 415, 741-741.	13.7	66
44	Lepidium as a model system for studying the evolution of fruit development in Brassicaceae. Journal of Experimental Botany, 2009, 60, 1503-1513.	2.4	64
45	Developmental Control and Plasticity of Fruit and Seed Dimorphism in <i>Aethionema arabicum</i>. Plant Physiology, 2016, 172, 1691-1707.	2.3	59
46	Gymnosperm Orthologues of Class B Floral Homeotic Genes and Their Impact on Understanding Flower Origin. Critical Reviews in Plant Sciences, 2004, 23, 129-148.	2.7	58
47	Petaloidy and petal identity MADSâ€box genes in the balsaminoid genera <i>Impatiens</i> and <i>Marcgravia</i>. Plant Journal, 2006, 47, 501-518.	2.8	54
48	The<i>seirena</i>B Class Floral Homeotic Mutant of California Poppy (<i>Eschscholzia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (ca MADS Domain Protein Complexes Â Â. Plant Cell, 2013, 25, 438-453.	3.1	52
49	GORDITA (AGL63) is a young paralog of the Arabidopsis thaliana Bsister MADS box gene ABS (TT16) that has undergone neofunctionalization. Plant Journal, 2010, 63, 914-924.	2.8	49
50	DEF- and GLO-like proteins may have lost most of their interaction partners during angiosperm evolution. Annals of Botany, 2014, 114, 1431-1443.	1.4	49
51	Molecular genetic basis of pod corn (<i>Tunicate</i> maize). Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7115-7120.	3.3	48
52	Classification and Phylogeny of the MADS-Box Multigene Family Suggest Defined Roles of MADS-Box Gene Subfamilies in the Morphological Evolution of Eukaryotes. Journal of Molecular Evolution, 1996, 43, 484-516.	0.8	47
53	Positive selection and ancient duplications in the evolution of class B floral homeotic genes of orchids and grasses. BMC Evolutionary Biology, 2009, 9, 81.	3.2	43
54	Conservation of fruit dehiscence pathways between <i><scp>L</scp>epidium campestre</i> and <i><scp>A</scp>rabidopsis thaliana</i> sheds light on the regulation of <i><scp>INDEHISCENT</scp></i>. Plant Journal, 2013, 76, 545-556.	2.8	42

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55	The pleiotropic SEPALLATA â€like gene Os MADS 34 reveals that the â€˜empty glumesâ€™ of rice (Oryza sativa) spikelets are in fact rudimentary lemmas. New Phytologist, 2014, 202, 689-702.	3.5	42
56	Why donâ€™t mosses flower?. New Phytologist, 2001, 150, 1-5.	3.5	41
57	The golden decade of molecular floral development (1990-1999): A cheerful obituary. , 1999, 25, 181-193.		40
58	Evolutionary developmental genetics of floral symmetry: The revealing power of Linnaeus' monstrous flower. BioEssays, 2000, 22, 209-213.	1.2	40
59	Evolutionary game theory: molecules as players. Molecular BioSystems, 2014, 10, 3066-3074.	2.9	39
60	Array of MADS-Box Genes: Facilitator for Rapid Adaptation?. Trends in Plant Science, 2018, 23, 563-576.	4.3	35
61	Cooperation and cheating in microbial exoenzyme production â€“ Theoretical analysis for biotechnological applications. Biotechnology Journal, 2010, 5, 751-758.	1.8	31
62	Selaginella Genome Analysis â€“ Entering the â€œHomoplasy Heavenâ€• of the MADS World. Frontiers in Plant Science, 2012, 3, 214.	1.7	31
63	Structure and Evolution of Plant MADS Domain Transcription Factors. , 2016, , 127-138.		30
64	Developmental Robustness by Obligate Interaction of Class B Floral Homeotic Genes and Proteins. PLoS Computational Biology, 2009, 5, e1000264.	1.5	29
65	Did Convergent Protein Evolution Enable Phytoplasmas to Generate â€˜Zombie Plantsâ€™?. Trends in Plant Science, 2015, 20, 798-806.	4.3	28
66	The significance of developmental robustness for species diversity. Annals of Botany, 2016, 117, 725-732.	1.4	25
67	A conserved leucine zipper-like motif accounts for strong tetramerization capabilities of SEPALLATA-like MADS-domain transcription factors. Journal of Experimental Botany, 2018, 69, 1943-1954.	2.4	24
68	Shattering developments. Nature, 2000, 404, 711-713.	13.7	21
69	When the BRANCHED network bears fruit: how carpic dominance causes fruit dimorphism in <i>Aethionema</i>. Plant Journal, 2018, 94, 352-371.	2.8	20
70	<i>Aethionema arabicum</i> genome annotation using PacBio fullâ€length transcripts provides a valuable resource for seed dormancy and Brassicaceae evolution research. Plant Journal, 2021, 106, 275-293.	2.8	20
71	Birth, life and death of developmental control genes: New challenges for the homology concept. Theory in Biosciences, 2005, 124, 199-212.	0.6	18
72	OsMADS14 and NFâ€YB1 cooperate in the direct activation of <i>OsAGPL2</i> and <i>Waxy</i> during starch synthesis in rice endosperm. New Phytologist, 2022, 234, 77-92.	3.5	18

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73	The floral homeotic protein <scp>SEPALLATA</scp>3 recognizes target <scp>DNA</scp> sequences by shape readout involving a conserved arginine residue in the <scp>MADS</scp>â€domain. Plant Journal, 2018, 95, 341-357.	2.8	17
74	Nonâ€canonical structure, function and phylogeny of the B sister MADS â€box gene O s MADS 30 of rice () Tj ETQq0 0 0 rgBT /Overlock	2.8	16
75	Floral visitation and reproductive traits of Stamenoid petals, a naturally occurring floral homeotic variant of Capsella bursa-pastoris (Brassicaceae). Planta, 2009, 230, 1239-1249.	1.6	15
76	MADS and More: Transcription Factors That Shape the Plant. Methods in Molecular Biology, 2011, 754, 3-18.	0.4	15
77	A double-flowered variety of lesser periwinkle (Vinca minor fl. pl.) that has persisted in the wild for more than 160 years. Annals of Botany, 2011, 107, 1445-1452.	1.4	15
78	SplamiRâ€"prediction of spliced miRNAs in plants. Bioinformatics, 2011, 27, 1215-1223.	1.8	15
79	Missing Links: DNAâ€Binding and Target Gene Specificity of Floral Homeotic Proteins. Advances in Botanical Research, 2006, , 209-236.	0.5	14
80	Reconstructing the ancestral flower of extant angiosperms: the â€˜war of the whorlsâ€™ is heating up. Journal of Experimental Botany, 2019, 70, 2615-2622.	2.4	14
81	Molecular Architects of Plant Body Plans. Progress in Botany Fortschritte Der Botanik, 1998, , 227-256.	0.1	14
82	Mapping a floral trait in Shepherds purse â€" â€˜Stamenoid petalsâ€™ in natural populations of Capsella bursa-pastoris (L.) Medik. Flora: Morphology, Distribution, Functional Ecology of Plants, 2013, 208, 641-647.	0.6	13
83	A Dead Gene Walking: Convergent Degeneration of a Clade of MADS-Box Genes in Crucifers. Molecular Biology and Evolution, 2018, 35, 2618-2638.	3.5	10
84	Structural Requirements of the Phytoplasma Effector Protein SAP54 for Causing Homeotic Transformation of Floral Organs. Molecular Plant-Microbe Interactions, 2020, 33, 1129-1141.	1.4	9
85	Extending the Toolkit for Beauty: Differential Co-Expression of DROOPING LEAF-Like and Class B MADS-Box Genes during Phalaenopsis Flower Development. International Journal of Molecular Sciences, 2021, 22, 7025.	1.8	9
86	A tale of two morphs: developmental patterns and mechanisms of seed coat differentiation in the dimorphic diaspore model Aethionema arabicum (Brassicaceae). Plant Journal, 2021, 107, 166-181.	2.8	8
87	DNA-binding properties of the MADS-domain transcription factor SEPALLATA3 and mutant variants characterized by SELEX-seq. Plant Molecular Biology, 2021, 105, 543-557.	2.0	8
88	Independent origin of <i>MIRNA</i> genes controlling homologous target genes by partial inverted duplication of antisenseâ€transcribed sequences. Plant Journal, 2020, 101, 401-419.	2.8	7
89	Plant Breeding: FLO-Like Meristem Identity Genes: from Basic Science to Crop Plant Design. Progress in Botany Fortschritte Der Botanik, 2000, , 167-183.	0.1	6
90	Evolution of Floral Organ Identity. , 2018, , 1-17.		5

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91	Key Genes of Crop Domestication and Breeding: Molecular Analyses. Progress in Botany Fortschritte Der Botanik, 2002, , 189-203.	0.1	4
92	BiodiversitÃtsmessung bei Pflanzen anhand molekularer Daten: Ein Beitrag zur wissenschaftlichen Definition von BiodiversitÃt. Wissenschaftsethik Und Technikfolgenbeurteilung, 2001, , 181-234.	0.8	4
93	The golden decade of molecular floral development(1990â€“1999): A cheerful obituary. Genesis, 1999, 25, 181-193.	3.1	3
94	Combinatorial Control of Floral Organ Identity by MADS-domain Transcription Factors. , 0, , 253-265.		3
95	Morphologically and physiologically diverse fruits of two Lepidium species differ in allocation of glucosinolates into immature and mature seed and pericarp. PLoS ONE, 2020, 15, e0227528.	1.1	3
96	Plant Breeding: The ABCs of Flower Development in Arabidopsis and Rice. Progress in Botany Fortschritte Der Botanik, 2004, , 193-215.	0.1	3
97	Comparative transcriptomics identifies candidate genes involved in the evolutionary transition from dehiscent to indehiscent fruits in Lepidium (Brassicaceae). BMC Plant Biology, 2022, 22, .	1.6	3
98	Evolution of Floral Organ Identity. , 2021, , 697-713.		2
99	The Genetics of Capsella. , 2011, , 373-387.		2
100	Plant Breeding: MADS ways of memorizing winter: vernalization in weed and wheat. , 2006, , 162-177.		1
101	Stranger than Fiction: Loss of MADS-Box Genes During Evolutionary Miniaturization of the Duckweed Body Plan. Compendium of Plant Genomes, 2020, , 91-101.	0.3	1
102	My favourite flowering image: a cob of pod corn. Journal of Experimental Botany, 2014, 65, 6751-6754.	2.4	0
103	Mechanismen der Evolution. , 2019, , 127-134.		0