# DanuÅ¡e TarkowskÃ¡

List of Publications by Year
in descending order



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|---|---|---|---|
| 82 papers | 10,204 citations | 76326 40 h-index | 85541 71 g-index |
| 87 all docs | 87 docs citations | 87 times ranked | 8940 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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. | 7.3 | 18 |
| 2 | Comparative transcriptomics identifies candidate genes involved in the evolutionary transition from dehiscent to indehiscent fruits in Lepidium (Brassicaceae). BMC Plant Biology, 2022, 22, . | 3.6 | 3 |
| 3 | Evolution of Floral Organ Identity. , 2021, , 697-713. | | 2 |
| 4 | <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. | 5.7 | 20 |
| 5 | 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. | 5.7 | 8 |
| 6 | 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. | 4.1 | 9 |
| 7 | DNA-binding properties of the MADS-domain transcription factor SEPALLATA3 and mutant variants characterized by SELEX-seq. Plant Molecular Biology, 2021, 105, 543-557. | 3.9 | 8 |
| 8 | New phytoplasma effector: 50 shades of green. Cell Host and Microbe, 2021, 29, 1601-1603. | 11.0 | 3 |
| 9 | Studying the Function of Phytoplasma Effector Proteins Using a Chemical-Inducible Expression System in Transgenic Plants. International Journal of Molecular Sciences, 2021, 22, 13582. | 4.1 | 3 |
| 10 | 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. | 5.7 | 7 |
| 11 | Structural Requirements of the Phytoplasma Effector Protein SAP54 for Causing Homeotic Transformation of Floral Organs. Molecular Plant-Microbe Interactions, 2020, 33, 1129-1141. | 2.6 | 9 |
| 12 | 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. | 2.5 | 3 |
| 13 | Stranger than Fiction: Loss of MADS-Box Genes During Evolutionary Miniaturization of the Duckweed Body Plan. Compendium of Plant Genomes, 2020, , 91-101. | 0.5 | 1 |
| 14 | Title is missing!. , 2020, 15, e0227528. | | 0 |
| 15 | Title is missing!. , 2020, 15, e0227528. | | 0 |
| 16 | Title is missing!. , 2020, 15, e0227528. | | 0 |
| 17 | Title is missing!. , 2020, 15, e0227528. | | 0 |
| 18 | Title is missing!. , 2020, 15, e0227528. | | 0 |

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|---|---|---|---|
| 19 | Title is missing!. , 2020, 15, e0227528. | | 0 |
| 20 | Plant miRNA Conservation and Evolution. Methods in Molecular Biology, 2019, 1932, 41-50. | 0.9 | 14 |
| 21 | Reconstructing the ancestral flower of extant angiosperms: the â€˜war of the whorlsâ€™ is heating up. Journal of Experimental Botany, 2019, 70, 2615-2622. | 4.8 | 14 |
| 22 | Aethionema arabicum: a novel model plant to study the light control of seed germination. Journal of Experimental Botany, 2019, 70, 3313-3328. | 4.8 | 31 |
| 23 | 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. | 4.8 | 24 |
| 24 | When the BRANCHED network bears fruit: how carpic dominance causes fruit dimorphism in <i>Aethionema</i>. Plant Journal, 2018, 94, 352-371. | 5.7 | 20 |
| 25 | Plant Hormonomics: Multiple Phytohormone Profiling by Targeted Metabolomics. Plant Physiology, 2018, 177, 476-489. | 4.8 | 293 |
| 26 | Array of MADS-Box Genes: Facilitator for Rapid Adaptation?. Trends in Plant Science, 2018, 23, 563-576. | 8.8 | 35 |
| 27 | A Dead Gene Walking: Convergent Degeneration of a Clade of MADS-Box Genes in Crucifers. Molecular Biology and Evolution, 2018, 35, 2618-2638. | 8.9 | 10 |
| 28 | The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. Cell, 2018, 174, 448-464.e24. | 28.9 | 420 |
| 29 | 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. | 5.7 | 17 |
| 30 | Evolution of Floral Organ Identity. , 2018, , 1-17. | | 5 |
| 31 | 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. | 5.7 | 76 |
| 32 | Developmental Control and Plasticity of Fruit and Seed Dimorphism in <i>Aethionema arabicum</i>. Plant Physiology, 2016, 172, 1691-1707. | 4.8 | 59 |
| 33 | MADS-domain transcription factors and the floral quartet model of flower development: linking plant development and evolution. Development (Cambridge), 2016, 143, 3259-3271. | 2.5 | 346 |
| 34 | The significance of developmental robustness for species diversity. Annals of Botany, 2016, 117, 725-732. | 2.9 | 25 |
| 35 | Structure and Evolution of Plant MADS Domain Transcription Factors. , 2016, , 127-138. | | 30 |
| 36 | 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 | 5.7 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Phylogenomics reveals surprising sets of essential and dispensable clades of MIKC<sup>c</sup>â€group MADSâ€box genes in flowering plants. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 353-362. | 1.3 | 69 |
| 38 | Did Convergent Protein Evolution Enable Phytoplasmas to Generate â€˜Zombie Plantsâ€™?. Trends in Plant Science, 2015, 20, 798-806. | 8.8 | 28 |
| 39 | Arabidopsis SEPALLATA proteins differ in cooperative DNA-binding during the formation of floral quartet-like complexes. Nucleic Acids Research, 2014, 42, 10927-10942. | 14.5 | 68 |
| 40 | 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. | 7.3 | 42 |
| 41 | Horizontal gene transfer and functional diversification of plant cell wall degrading polygalacturonases: Key events in the evolution of herbivory in beetles. Insect Biochemistry and Molecular Biology, 2014, 52, 33-50. | 2.7 | 116 |
| 42 | UHPLCâ€“MS/MS based target profiling of stress-induced phytohormones. Phytochemistry, 2014, 105, 147-157. | 2.9 | 184 |
| 43 | Structural Basis for the Oligomerization of the MADS Domain Transcription Factor SEPALLATA3 in <i>Arabidopsis</i> Â. Plant Cell, 2014, 26, 3603-3615. | 6.6 | 97 |
| 44 | Quo vadis plant hormone analysis?. Planta, 2014, 240, 55-76. | 3.2 | 72 |
| 45 | My favourite flowering image: a cob of pod corn. Journal of Experimental Botany, 2014, 65, 6751-6754. | 4.8 | 0 |
| 46 | DEF- and GLO-like proteins may have lost most of their interaction partners during angiosperm evolution. Annals of Botany, 2014, 114, 1431-1443. | 2.9 | 49 |
| 47 | MADS goes genomic in conifers: towards determining the ancestral set of MADS-box genes in seed plants. Annals of Botany, 2014, 114, 1407-1429. | 2.9 | 101 |
| 48 | FLOWERING LOCUS C in monocots and the tandem origin of angiosperm-specific MADS-box genes. Nature Communications, 2013, 4, 2280. | 12.8 | 142 |
| 49 | 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. | 5.7 | 71 |
| 50 | 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. | 5.7 | 42 |
| 51 | The Norway spruce genome sequence and conifer genome evolution. Nature, 2013, 497, 579-584. | 27.8 | 1,303 |
| 52 | Phylogenomics of MADS-Box Genes in Plants â€" Two Opposing Life Styles in One Gene Family. Biology, 2013, 2, 1150-1164. | 2.8 | 70 |
| 53 | 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. | 2.5 | 73 |
| 54 | The Selaginella Genome Identifies Genetic Changes Associated with the Evolution of Vascular Plants. Science, 2011, 332, 960-963. | 12.6 | 794 |

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|---|---|---|---|
| 55 | 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. | 5.7 | 125 |
| 56 | 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. | 2.9 | 15 |
| 57 | Cooperation and cheating in microbial exoenzyme production â€" Theoretical analysis for biotechnological applications. Biotechnology Journal, 2010, 5, 751-758. | 3.5 | 31 |
| 58 | On the origin of MADS-domain transcription factors. Trends in Genetics, 2010, 26, 149-153. | 6.7 | 123 |
| 59 | Functional conservation and diversification of class E floral homeotic genes in rice (<i>Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf | 5.7 | 223 |
| 60 | 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. | 5.7 | 68 |
| 61 | 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. | 5.7 | 49 |
| 62 | 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. | 5.0 | 93 |
| 63 | Reconstitution of â€˜floral quartetsâ€™ in vitro involving class B and class E floral homeotic proteins. Nucleic Acids Research, 2009, 37, 2723-2736. | 14.5 | 133 |
| 64 | Developmental Robustness by Obligate Interaction of Class B Floral Homeotic Genes and Proteins. PLoS Computational Biology, 2009, 5, e1000264. | 3.2 | 29 |
| 65 | 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. | 14.5 | 141 |
| 66 | Floral visitation and reproductive traits of Stamenoid petals, a naturally occurring floral homeotic variant of Capsella bursa-pastoris (Brassicaceae). Planta, 2009, 230, 1239-1249. | 3.2 | 15 |
| 67 | Saltational evolution: hopeful monsters are here to stay. Theory in Biosciences, 2009, 128, 43-51. | 1.4 | 99 |
| 68 | MADS about the evolution of orchid flowers. Trends in Plant Science, 2008, 13, 51-59. | 8.8 | 139 |
| 69 | Missing Links: DNAâ€Binding and Target Gene Specificity of Floral Homeotic Proteins. Advances in Botanical Research, 2006, , 209-236. | 1.1 | 14 |
| 70 | Petaloidy and petal identity MADSâ€box genes in the balsaminoid genera <i>Impatiens</i> and <i>Marcgravia</i>. Plant Journal, 2006, 47, 501-518. | 5.7 | 54 |
| 71 | The proper place of hopeful monsters in evolutionary biology. Theory in Biosciences, 2006, 124, 349-369. | 1.4 | 96 |
| 72 | Birth, life and death of developmental control genes: New challenges for the homology concept. Theory in Biosciences, 2005, 124, 199-212. | 1.4 | 18 |

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|---|---|---|---|
| 73 | MIKC-type MADS-domain proteins: structural modularity, protein interactions and network evolution in land plants. Gene, 2005, 347, 183-198. | 2.2 | 484 |
| 74 | Genomewide Structural Annotation and Evolutionary Analysis of the Type I MADS-Box Genes in Plants. Journal of Molecular Evolution, 2003, 56, 573-586. | 1.8 | 109 |
| 75 | 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. | 2.7 | 827 |
| 76 | Two Ancient Classes of MIKC-type MADS-box Genes are Present in the Moss Physcomitrella patens. Molecular Biology and Evolution, 2002, 19, 801-814. | 8.9 | 216 |
| 77 | 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. | 5.7 | 81 |
| 78 | Orthology: Secret life of genes. Nature, 2002, 415, 741-741. | 27.8 | 66 |
| 79 | Floral quartets. Nature, 2001, 409, 469-471. | 27.8 | 826 |
| 80 | Genetics of identity. Nature, 2001, 414, 491-491. | 27.8 | 13 |
| 81 | Development of floral organ identity: stories from the MADS house. Current Opinion in Plant Biology, 2001, 4, 75-85. | 7.1 | 799 |
| 82 | 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. | 1.8 | 467 |