List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Sequencing of Aspergillus nidulans and comparative analysis with A. fumigatus and A. oryzae. Nature, 2005, 438, 1105-1115. | 27.8 | 1,250 |
| 2 | The auxin signalling network translates dynamic input into robust patterning at the shoot apex. Molecular Systems Biology, 2011, 7, 508. | 7.2 | 520 |
| 3 | Crop Phenomics and High-Throughput Phenotyping: Past Decades, Current Challenges, and Future Perspectives. Molecular Plant, 2020, 13, 187-214. | 8.3 | 423 |
| 4 | A Genetic Framework for Grain Size and Shape Variation in Wheat Â. Plant Cell, 2010, 22, 1046-1056. | 6.6 | 397 |
| 5 | Silencing by plant Polycomb-group genes requires dispersed trimethylation of histone H3 at lysine 27. EMBO Journal, 2006, 25, 4638-4649. | 7.8 | 396 |
| 6 | The <i>Arabidopsis</i> RNA-Directed DNA Methylation Argonautes Functionally Diverge Based on Their Expression and Interaction with Target Loci Â. Plant Cell, 2010, 22, 321-334. | 6.6 | 346 |
| 7 | The bimG gene of Aspergillus nidulans, required for completion of anaphase, encodes a homolog of mammalian phosphoprotein phosphatase 1. Cell, 1989, 57, 987-996. | 28.9 | 345 |
| 8 | Spindle formation and chromatin condensation in cells blocked at interphase by mutation of a negative cell cycle control gene. Cell, 1988, 52, 241-251. | 28.9 | 258 |
| 9 | Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. Plant Molecular Biology, 1996, 32, 1003-1018. | 3.9 | 232 |
| 10 | Aspergillus nidulans contains a single actin gene which has unique intron locations and encodes a γ-actin. Gene, 1988, 70, 283-293. | 2.2 | 223 |
| 11 | EB1 reveals mobile microtubule nucleation sites in Arabidopsis. Nature Cell Biology, 2003, 5, 967-971. | 10.3 | 217 |
| 12 | High-throughput protein localization in Arabidopsis using Agrobacterium-mediated transient expression of GFP-ORF fusions. Plant Journal, 2004, 41, 162-174. | 5.7 | 190 |
| 13 | Plant-adapted green fluorescent protein is a versatile vital reporter for gene expression, protein localization and mitosis in the filamentous fungus,Aspergillus nidulans. Molecular Microbiology, 1998, 27, 121-130. | 2.5 | 185 |
| 14 | The Expression of D-Cyclin Genes Defines Distinct Developmental Zones in Snapdragon Apical Meristems and Is Locally Regulated by the Cycloidea Gene. Plant Physiology, 2000, 122, 1137-1148. | 4.8 | 185 |
| 15 | G2/M-Phase–Specific Transcription during the Plant Cell Cycle Is Mediated by c-Myb–Like Transcription Factors. Plant Cell, 2001, 13, 1891-1905. | 6.6 | 185 |
| 16 | Brachypodium distachyon: making hay with a wild grass. Trends in Plant Science, 2008, 13, 172-177. | 8.8 | 174 |
| 17 | Regulation of the Pollen-Specific Actin-Depolymerizing Factor LIADF1. Plant Cell, 2002, 14, 2915-2927. | 6.6 | 160 |
| 18 | The maize retinoblastoma protein homologue ZmRb-1 is regulated during leaf development and displays conserved interactions with G1/S regulators and plant cyclin D (CycD) proteins. Plant Molecular Biology, 1998, 37, 155-169. | 3.9 | 147 |

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|----|---|-----|-----------|
| 19 | UVR8 in <i>Arabidopsis thaliana</i> regulates multiple aspects of cellular differentiation during leaf development in response to ultraviolet B radiation. New Phytologist, 2009, 183, 315-326. | 7.3 | 138 |
| 20 | Transcriptional repression by <scp>MYB</scp> 3R proteins regulates plant organ growth. EMBO Journal, 2015, 34, 1992-2007. | 7.8 | 128 |
| 21 | <i>Arabidopsis</i> POT1A interacts with TERT-V(18), an N-terminal splicing variant of telomerase. Journal of Cell Science, 2007, 120, 3678-3687. | 2.0 | 123 |
| 22 | Glucoamylase::green fluorescent protein fusions to monitor protein secretion in Aspergillus niger. Microbiology (United Kingdom), 2000, 146, 415-426. | 1.8 | 118 |
| 23 | Microtubule-Associated AIR9 Recognizes the Cortical Division Site at Preprophase and Cell-Plate Insertion. Current Biology, 2006, 16, 1938-1943. | 3.9 | 118 |
| 24 | The ethanol switch: a tool for tissue-specific gene induction during plant development. Plant Journal, 2003, 36, 918-930. | 5.7 | 115 |
| 25 | Cell Cycle Regulation of Cyclin-Dependent Kinases in Tobacco Cultivar Bright Yellow-2 Cells. Plant Physiology, 2001, 126, 1214-1223. | 4.8 | 114 |
| 26 | Systematic Spatial Analysis of Gene Expression during Wheat Caryopsis Development. Plant Cell, 2005, 17, 2172-2185. | 6.6 | 112 |
| 27 | The Arabidopsis D-type Cyclins CycD2 and CycD3 Both Interact in Vivo with the PSTAIRE Cyclin-dependent Kinase Cdc2a but Are Differentially Controlled. Journal of Biological Chemistry, 2001, 276, 7041-7047. | 3.4 | 100 |
| 28 | CycD1, a Putative G1 Cyclin from Antirrhinum majus, Accelerates the Cell Cycle in Cultured Tobacco BY-2 Cells by Enhancing Both G1/S Entry and Progression through S and G2 Phases. Plant Cell, 2004, 16, 2364-2379. | 6.6 | 93 |
| 29 | Identification of a novel family of 70 kDa microtubule-associated proteins in Arabidopsis cells. Plant Journal, 2005, 42, 547-555. | 5.7 | 92 |
| 30 | CDKG1 protein kinase is essential for synapsis and male meiosis at high ambient temperature in <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2182-2187. | 7.1 | 92 |
| 31 | Plant organelle proteomics: Collaborating for optimal cell function. Mass Spectrometry Reviews, 2011, 30, 772-853. | 5.4 | 89 |
| 32 | ENDOSPERM DEFECTIVE1 Is a Novel Microtubule-Associated Protein Essential for Seed Development in <i>Arabidopsis</i> Â. Plant Cell, 2009, 21, 90-105. | 6.6 | 80 |
| 33 | AtMAP70-5, a divergent member of the MAP70 family of microtubule-associated proteins, is required for anisotropic cell growth in Arabidopsis. Journal of Cell Science, 2007, 120, 2241-2247. | 2.0 | 73 |
| 34 | Functional Evolution of Cyclin-Dependent Kinases. Molecular Biotechnology, 2009, 42, 14-29. | 2.4 | 73 |
| 35 | Non-destructive, high-content analysis of wheat grain traits using X-ray micro computed tomography. Plant Methods, 2017, 13, 76. | 4.3 | 73 |
| 36 | Cell-cycle modulation of MPM-2-specific spindle pole body phosphorylation inAspergillus nidulans. Cytoskeleton, 1988, 10, 432-437. | 4.4 | 71 |

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|----|---|------|-----------|
| 37 | Endosperm development in Brachypodium distachyon. Journal of Experimental Botany, 2011, 62, 735-748. | 4.8 | 68 |
| 38 | Walls around tumours — why plants do not develop cancer. Nature Reviews Cancer, 2010, 10, 794-802. | 28.4 | 67 |
| 39 | Cyclin dependent protein kinases and stress responses in plants. Plant Signaling and Behavior, 2011, 6, 204-209. | 2.4 | 67 |
| 40 | Gradual polyploid genome evolution revealed by pan-genomic analysis of Brachypodium hybridum and its diploid progenitors. Nature Communications, 2020, 11, 3670. | 12.8 | 67 |
| 41 | <i>Arabidopsis</i> KCBP interacts with AIR9 but stays in the cortical division zone throughout mitosis via its MyTH4-FERM domain. Journal of Cell Science, 2015, 128, 2033-2046. | 2.0 | 66 |
| 42 | Modulated targeting of GFP-AtMAP65-1 to central spindle microtubules during division. Plant Journal, 2005, 43, 469-478. | 5.7 | 59 |
| 43 | Endopolyploidy as a potential alternative adaptive strategy for Arabidopsis leaf size variation in response to UV-B. Journal of Experimental Botany, 2014, 65, 2757-2766. | 4.8 | 59 |
| 44 | Pre-prophase band of microtubules, absent from tip-growing moss filaments, arises in leafy shoots during transition to intercalary growth. Cytoskeleton, 1987, 7, 138-153. | 4.4 | 58 |
| 45 | Kinesins Have a Dual Function in Organizing Microtubules during Both Tip Growth and Cytokinesis in <i>Physcomitrella patens</i> . Plant Cell, 2014, 26, 1256-1266. | 6.6 | 56 |
| 46 | The cyclinâ€dependent kinase G group defines a thermoâ€sensitive alternative splicing circuit modulating the expression of Arabidopsis <i><scp>ATU</scp>2<scp>AF</scp>65A</i> . Plant Journal, 2018, 94, 1010-1022. | 5.7 | 56 |
| 47 | The role of MAP65-1 in microtubule bundling during Zinnia tracheary element formation. Journal of Cell Science, 2006, 119, 753-758. | 2.0 | 55 |
| 48 | Selective recruitment of proteins to 5′ cap complexes during the growth cycle in Arabidopsis. Plant Journal, 2009, 59, 400-412. | 5.7 | 53 |
| 49 | Linking Dynamic Phenotyping with Metabolite Analysis to Study Natural Variation in Drought Responses of Brachypodium distachyon. Frontiers in Plant Science, 2016, 7, 1751. | 3.6 | 53 |
| 50 | Arabidopsis Reactome: A Foundation Knowledgebase for Plant Systems Biology. Plant Cell, 2008, 20, 1426-1436. | 6.6 | 52 |
| 51 | T-DNA mutagenesis in Brachypodium distachyon. Journal of Experimental Botany, 2012, 63, 567-576. | 4.8 | 51 |
| 52 | Two α-tubulin genes of Aspergillus nidulans encode divergent proteins. Molecular Genetics and Genomics, 1991, 225, 129-141. | 2.4 | 43 |
| 53 | Microtubule cycle inChlamydomonas reinhardtii: An Immunofluorescence study. Cytoskeleton, 1987, 7, 381-392. | 4.4 | 41 |
| 54 | The <scp>RNA</scp> helicase, <scp>eIF</scp> 4Aâ€1, is required for ovule development and cell size homeostasis in Arabidopsis. Plant Journal, 2015, 84, 989-1004. | 5.7 | 38 |

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|----|---|-----|-----------|
| 55 | Thermo-Sensitive Alternative Splicing of FLOWERING LOCUS M Is Modulated by Cyclin-Dependent Kinase G2. Frontiers in Plant Science, 2020, 10, 1680. | 3.6 | 38 |
| 56 | A cyclin-dependent protein kinase, CDKC2, colocalizes with and modulates the distribution of spliceosomal components in Arabidopsis. Plant Journal, 2008, 54, 220-235. | 5.7 | 36 |
| 57 | Determining Phenological Patterns Associated with the Onset of Senescence in a Wheat MAGIC Mapping Population. Frontiers in Plant Science, 2016, 7, 1540. | 3.6 | 36 |
| 58 | The Mitotic Function of Augmin Is Dependent on Its Microtubule-Associated Protein Subunit EDE1 in Arabidopsis thaliana. Current Biology, 2017, 27, 3891-3897.e4. | 3.9 | 36 |
| 59 | Ectopic expression of <i>Triticum polonicum VRT-A2</i> underlies elongated glumes and grains in hexaploid wheat in a dosage-dependent manner. Plant Cell, 2021, 33, 2296-2319. | 6.6 | 36 |
| 60 | Cellular basis of shoot apical meristem development. International Review of Cytology, 2001, 208, 161-206. | 6.2 | 33 |
| 61 | Total <i>FLC</i> transcript dynamics from divergent paralogue expression explains flowering diversity in <i>Brassica napus</i> . New Phytologist, 2021, 229, 3534-3548. | 7.3 | 32 |
| 62 | Arabidopsis T-DNA insertional lines for CDC25 are hypersensitive to hydroxyurea but not to zeocin or salt stress. Annals of Botany, 2011, 107, 1183-1192. | 2.9 | 30 |
| 63 | AtTRB1, a telomeric DNA-binding protein from Arabidopsis, is concentrated in the nucleolus and shows highly dynamic association with chromatin. Plant Journal, 2010, 61, 637-649. | 5.7 | 29 |
| 64 | In vivo interaction between CDKA and eIF4A: a possible mechanism linking translation and cell proliferation. FEBS Letters, 2004, 556, 91-94. | 2.8 | 28 |
| 65 | Natural Variation in <i>Brachypodium</i> Links Vernalization and Flowering Time Loci as Major Flowering Determinants. Plant Physiology, 2017, 173, 256-268. | 4.8 | 28 |
| 66 | The alc-GR System. A Modified alc Gene Switch Designed for Use in Plant Tissue Culture. Plant Physiology, 2005, 138, 1259-1267. | 4.8 | 27 |
| 67 | Cyclin-dependent kinase activity retains the shoot apical meristem cells in an undifferentiated state. Plant Journal, 2010, 64, no-no. | 5.7 | 26 |
| 68 | Automatic estimation of wheat grain morphometry from computed tomography data. Functional Plant Biology, 2015, 42, 452. | 2.1 | 26 |
| 69 | A Tâ€ÐNA mutation in the RNA helicase elF4A confers a doseâ€dependent dwarfing phenotype in <i>Brachypodium distachyon</i> . Plant Journal, 2011, 66, 929-940. | 5.7 | 25 |
| 70 | eIF4A RNA Helicase Associates with Cyclin-Dependent Protein Kinase A in Proliferating Cells and Is Modulated by Phosphorylation. Plant Physiology, 2016, 172, 128-140. | 4.8 | 25 |
| 71 | The histone acetyltransferase GCN5 and the transcriptional coactivator ADA2b affect leaf development and trichome morphogenesis in Arabidopsis. Planta, 2018, 248, 613-628. | 3.2 | 25 |
| 72 | DeepPod: a convolutional neural network based quantification of fruit number in Arabidopsis. GigaScience, 2020, 9, . | 6.4 | 25 |

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|----|---|-----|-----------|
| 73 | Direct and accurate feature extraction from 3D point clouds of plants using RANSAC. Computers and Electronics in Agriculture, 2021, 187, 106240. | 7.7 | 25 |
| 74 | Polyploidyâ€associated genomic instability in <i>Arabidopsis thaliana</i> . Genesis, 2010, 48, 254-263. | 1.6 | 22 |
| 75 | The genetic analysis of mitosis inAspergillus nidulans. BioEssays, 1989, 10, 196-201. | 2.5 | 21 |
| 76 | A streamlined method for systematic, high resolution in situ analysis of mRNA distribution in plants. Plant Methods, 2005, 1, 8. | 4.3 | 21 |
| 77 | Polyploidy-Associated Genomic Instability inArabidopsis thaliana. Genesis, 2010, 48, spcone-spcone. | 1.6 | 21 |
| 78 | Deep Segmentation of Point Clouds of Wheat. Frontiers in Plant Science, 2021, 12, 608732. | 3.6 | 21 |
| 79 | Interaction of a 14-3-3 protein with the plant microtubule-associated protein EDE1. Annals of Botany, 2011, 107, 1103-1109. | 2.9 | 20 |
| 80 | Mechanical stimulation in <scp><i>Brachypodium distachyon</i></scp> : Implications for fitness, productivity, and cell wall properties. Plant, Cell and Environment, 2020, 43, 1314-1330. | 5.7 | 20 |
| 81 | The pot1+ homologue in Aspergillus nidulans is required for ordering mitotic events. Journal of Cell Science, 2004, 117, 199-209. | 2.0 | 19 |
| 82 | μ CT trait analysis reveals morphometric differences between domesticated temperate small grain cereals and their wild relatives. Plant Journal, 2019, 99, 98-111. | 5.7 | 19 |
| 83 | Identification and localisation of a nucleoporin-like protein component of the plant nuclear matrix. Planta, 1992, 187, 414-20. | 3.2 | 17 |
| 84 | Drought priming effects on alleviating the photosynthetic limitations of wheat cultivars (<i>Triticum aestivum</i> L.) with contrasting tolerance to abiotic stresses. Journal of Agronomy and Crop Science, 2020, 206, 651-664. | 3.5 | 17 |
| 85 | Accurate Multi-View Stereo 3D Reconstruction for Cost-Effective Plant Phenotyping. Lecture Notes in Computer Science, 2014, , 349-356. | 1.3 | 17 |
| 86 | A type 2A protein phosphatase gene from Aspergillus nidulans is involved in hyphal morphogenesis. Current Genetics, 2001, 39, 25-34. | 1.7 | 15 |
| 87 | Transition of G1 to early S phase may be required for zinnia mesophyll cells to trans-differentiate to tracheary elements. Planta, 2004, 220, 172-176. | 3.2 | 15 |
| 88 | Cycling plant cells. Plant Journal, 1991, 1, 129-132. | 5.7 | 14 |
| 89 | Expression of Cell Cycle Genes in Shoot Apical Meristems. Plant Molecular Biology, 2006, 60, 947-961. | 3.9 | 14 |
| 90 | Genetic and Methylome Variation in Turkish Brachypodium Distachyon Accessions Differentiate Two Geographically Distinct Subpopulations. International Journal of Molecular Sciences, 2020, 21, 6700. | 4.1 | 14 |

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|-----|--|-----|-----------|
| 91 | Automated estimation of tiller number in wheat by ribbon detection. Machine Vision and Applications, 2016, 27, 637-646. | 2.7 | 13 |
| 92 | CHPA, a Cysteine- and Histidine-Rich-Domain-Containing Protein, Contributes to Maintenance of the Diploid State in Aspergillus nidulans. Eukaryotic Cell, 2004, 3, 984-991. | 3.4 | 11 |
| 93 | Coupling the GAL4 UAS system with alcR for versatile cell type-specific chemically inducible gene expression in Arabidopsis. Plant Biotechnology Journal, 2007, 5, 465-476. | 8.3 | 11 |
| 94 | CDKG1 Is Required for Meiotic and Somatic Recombination Intermediate Processing in Arabidopsis. Plant Cell, 2020, 32, 1308-1322. | 6.6 | 11 |
| 95 | Metabolomic Variation Aligns with Two Geographically Distinct Subpopulations of Brachypodium Distachyon before and after Drought Stress. Cells, 2021, 10, 683. | 4.1 | 11 |
| 96 | Tef: a tiny grain with enormous potential. Trends in Plant Science, 2022, 27, 220-223. | 8.8 | 11 |
| 97 | Gene dosage effect of WEE1 on growth and morphogenesis from arabidopsis hypocotyl explants. Annals of Botany, 2012, 110, 1631-1639. | 2.9 | 10 |
| 98 | Cell Wall Epitopes and Endoploidy as Reporters of Embryogenic Potential in Brachypodium Distachyon Callus Culture. International Journal of Molecular Sciences, 2018, 19, 3811. | 4.1 | 10 |
| 99 | Proximal–distal patterns of transcription factor gene expression during Arabidopsis root development. Journal of Experimental Botany, 2008, 59, 235-245. | 4.8 | 9 |
| 100 | A CRISPR/Cas9-Based Mutagenesis Protocol for Brachypodium distachyon and Its Allopolyploid Relative, Brachypodium hybridum. Frontiers in Plant Science, 2020, 11, 614. | 3.6 | 9 |
| 101 | In Vitro Tissue Culture in Brachypodium: Applications and Challenges. International Journal of Molecular Sciences, 2020, 21, 1037. | 4.1 | 9 |
| 102 | Estimation of Branch Angle from 3D Point Cloud of Plants. , 2015, , . | | 7 |
| 103 | Editorial: Phenomics. Frontiers in Plant Science, 2018, 9, 678. | 3.6 | 7 |
| 104 | A Functional Kinase Is Necessary for Cyclin-Dependent Kinase G1 (CDKG1) to Maintain Fertility at High Ambient Temperature in Arabidopsis. Frontiers in Plant Science, 2020, 11, 586870. | 3.6 | 6 |
| 105 | In situ Analysis of Gene Expression in Plants. Methods in Molecular Biology, 2009, 513, 229-242. | 0.9 | 5 |
| 106 | Cloning and characterization of the unusual cyclin gene from an amphidiploid of Nicotiana glauca-Nicotiana langsdorffii hybrid. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1489, 399-404. | 2.4 | 4 |
| 107 | Developmental control of the cell cycle. Cell Biology International, 2003, 27, 283-285. | 3.0 | 4 |
| 108 | The Aspergillus nidulans hfa mutations affect genomic stability and cause diverse defects in cell cycle progression and cellular morphogenesis. Mycological Research, 2000, 104, 1439-1448. | 2.5 | 2 |

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|-----|---|-----|-----------|
| 109 | The Plant Cell Cycle: An Overview. , 2005, 296, 031-050. | | 2 |
| 110 | Molecular and physiological responses to desiccation indicate the abscisic acid pathway is conserved in the peat moss, <i>Sphagnum</i> . Journal of Experimental Botany, 2022, 73, 4576-4591. | 4.8 | 2 |
| 111 | Allotetraploidization in Brachypodium May Have Led to the Dominance of One Parent's Metabolome in Germinating Seeds. Cells, 2021, 10, 828. | 4.1 | 1 |
| 112 | TheArabidopsis Localizome: Subcellular Protein Localization and Interactions inARABIDOPSIS. , 0, , 61-81. | | 0 |
| 113 | Genetic architecture of variation in Arabidopsis thaliana rosettes. PLoS ONE, 2022, 17, e0263985. | 2.5 | 0 |