

# Marie-Theres Hauser

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68  
papers

4,950  
citations

33  
h-index

69  
g-index

69  
ext. papers

5,777  
ext. citations

8.7  
avg, IF

5.25  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 68 | The SHORT-ROOT gene controls radial patterning of the Arabidopsis root through radial signaling. <i>Cell</i> , <b>2000</b> , 101, 555-67  | 56.2 | 809       |
| 67 | APL regulates vascular tissue identity in Arabidopsis. <i>Nature</i> , <b>2003</b> , 426, 181-6   | 50.4 | 342       |
| 66 | AtEXO70A1, a member of a family of putative exocyst subunits specifically expanded in land plants, is important for polar growth and plant development. <i>Plant Journal</i> , <b>2006</b> , 48, 54-72          | 6.9  | 206       |
| 65 | Transgenerational epigenetic inheritance in plants. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2011</b> , 1809, 459-68  | 6    | 205       |
| 64 | Transgenerational inheritance and resetting of stress-induced loss of epigenetic gene silencing in Arabidopsis. <i>Molecular Plant</i> , <b>2010</b> , 3, 594-602   | 14.4 | 200       |
| 63 | POM-POM2/cellulose synthase interacting1 is essential for the functional association of cellulose synthase and microtubules in Arabidopsis. <i>Plant Cell</i> , <b>2012</b> , 24, 163-77                        | 11.6 | 197       |
| 62 | Comparative evolutionary analysis of rDNA ITS regions in Drosophila. <i>Molecular Biology and Evolution</i> , <b>1994</b> , 11, 513-22  | 8.3  | 185       |
| 61 | The Arabidopsis microtubule-associated protein AtMAP65-1: molecular analysis of its microtubule bundling activity. <i>Plant Cell</i> , <b>2004</b> , 16, 2035-47  | 11.6 | 174       |
| 60 | The plant microtubule-associated protein AtMAP65-3/PLE is essential for cytokinetic phragmoplast function. <i>Current Biology</i> , <b>2004</b> , 14, 412-7   | 6.3  | 162       |
| 59 | Exploring the ESCRTing machinery in eukaryotes. <i>Trends in Plant Science</i> , <b>2006</b> , 11, 115-23   | 13.1 | 147       |
| 58 | Evaluation of a homemade SYBR green I reaction mixture for real-time PCR quantification of gene expression. <i>BioTechniques</i> , <b>2002</b> , 32, 790-2, 794-6   | 2.5  | 132       |
| 57 | Chitinase-like1/pom-pom1 and its homolog CTL2 are glucan-interacting proteins important for cellulose biosynthesis in Arabidopsis. <i>Plant Cell</i> , <b>2012</b> , 24, 589-607                                | 11.6 | 118       |
| 56 | An Arabidopsis endo-1,4-beta-D-glucanase involved in cellulose synthesis undergoes regulated intracellular cycling. <i>Plant Cell</i> , <b>2005</b> , 17, 3378-89   | 11.6 | 105       |
| 55 | Post-transcriptional control of the Arabidopsis auxin efflux carrier EIR1 requires AXR1. <i>Current Biology</i> , <b>2000</b> , 10, 1595-8  | 6.3  | 105       |
| 54 | Transcriptome analysis of bud burst in sessile oak ( <i>Quercus petraea</i> ). <i>New Phytologist</i> , <b>2006</b> , 170, 723-389.8  |      | 99        |
| 53 | Trichome distribution in Arabidopsis thaliana and its close relative Arabidopsis lyrata: molecular analysis of the candidate gene GLABROUS1. <i>Molecular Biology and Evolution</i> , <b>2001</b> , 18, 1754-63 | 8.3  | 99        |
| 52 | The ring between ring fingers (RBR) protein family. <i>Genome Biology</i> , <b>2007</b> , 8, 209  | 18.3 | 97        |

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|----|--|------|----|
| 51 | PROPORZ1, a putative Arabidopsis transcriptional adaptor protein, mediates auxin and cytokinin signals in the control of cell proliferation. <i>Current Biology</i> , <b>2003</b> , 13, 837-42   | 6.3  | 94 |
| 50 | Root anatomy and element distribution vary between two <i>Salix caprea</i> isolates with different Cd accumulation capacities. <i>Environmental Pollution</i> , <b>2012</b> , 163, 117-26  | 9.3  | 91 |
| 49 | Plant Cytokinesis: Terminology for Structures and Processes. <i>Trends in Cell Biology</i> , <b>2017</b> , 27, 885-894   | 18.3 | 88 |
| 48 | Liquid chromatography coupled to tandem mass spectrometry (LC-MS/MS) determination of phase II metabolites of the mycotoxin zearalenone in the model plant <i>Arabidopsis thaliana</i> . <i>Food Additives and Contaminants</i> , <b>2006</b> , 23, 1194-200 |      | 88 |
| 47 | Transcriptional repression by MYB3R proteins regulates plant organ growth. <i>EMBO Journal</i> , <b>2015</b> , 34, 1992-2007   | 13   | 80 |
| 46 | Molecular basis of natural variation and environmental control of trichome patterning. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 320  | 6.2  | 78 |
| 45 | Cracking the elusive alignment hypothesis: the microtubule-cellulose synthase nexus unraveled. <i>Trends in Plant Science</i> , <b>2012</b> , 17, 666-74   | 13.1 | 76 |
| 44 | The Arabidopsis deubiquitinating enzyme AMSH3 interacts with ESCRT-III subunits and regulates their localization. <i>Plant Cell</i> , <b>2011</b> , 23, 3026-40  | 11.6 | 76 |
| 43 | Cloning and expression of cDNAs encoding alpha1,3-fucosyltransferase homologues from <i>Arabidopsis thaliana</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2001</b> , 1527, 88-96   | 4    | 68 |
| 42 | The SABRE gene is required for normal cell expansion in Arabidopsis. <i>Genes and Development</i> , <b>1995</b> , 9, 330-40  | 12.6 | 63 |
| 41 | Generation of co-dominant PCR-based markers by duplex analysis on high resolution gels. <i>Plant Journal</i> , <b>1998</b> , 16, 117-25  | 6.9  | 45 |
| 40 | Two new loci, PLEIADE and HYADE, implicate organ-specific regulation of cytokinesis in Arabidopsis. <i>Plant Physiology</i> , <b>2002</b> , 130, 312-24  | 6.6  | 44 |
| 39 | Expression of zinc and cadmium responsive genes in leaves of willow ( <i>Salix caprea</i> L.) genotypes with different accumulation characteristics. <i>Environmental Pollution</i> , <b>2013</b> , 178, 121-7   | 9.3  | 42 |
| 38 | Identification and characterization of the ARIADNE gene family in Arabidopsis. A group of putative E3 ligases. <i>Plant Physiology</i> , <b>2003</b> , 131, 27-40  | 6.6  | 42 |
| 37 | Waterproofing in Arabidopsis: Following Phenolics and Lipids In situ by Confocal Raman Microscopy. <i>Frontiers in Chemistry</i> , <b>2016</b> , 4, 10   | 5    | 38 |
| 36 | Sporophytes and Male Gametophytes from in Vitro Cultured, Immature Tobacco Pollen <b>1988</b> , 137-142  |      | 37 |
| 35 | T-DNA alleles of the receptor kinase THESEUS1 with opposing effects on cell wall integrity signaling. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 4583-4593  | 7    | 32 |
| 34 | A single amino acid replacement in ETC2 shapes trichome patterning in natural Arabidopsis populations. <i>Current Biology</i> , <b>2009</b> , 19, 1747-51  | 6.3  | 31 |

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|----|--|------|----|
| 33 | Post-harvest UV-B radiation modulates metabolite profile in peach fruit. <i>Postharvest Biology and Technology</i> , <b>2018</b> , 139, 127-134  | 6.2  | 29 |
| 32 | Short review: Metabolism of the Fusarium mycotoxins deoxynivalenol and zearalenone in plants. <i>Mycotoxin Research</i> , <b>2007</b> , 23, 68-72  | 4    | 28 |
| 31 | UV-B signaling pathways and fluence rate dependent transcriptional regulation of ARIADNE12. <i>Physiologia Plantarum</i> , <b>2012</b> , 145, 527-39   | 4.6  | 27 |
| 30 | Role of RLK1L Cell Wall Sensors HERCULES1 and 2, THESEUS1, and FERONIA in Growth Adaptation Triggered by Heavy Metals and Trace Elements. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1554                                  | 6.2  | 26 |
| 29 | The Membrane-Associated Sec1/Munc18 KEULE is Required for Phragmoplast Microtubule Reorganization During Cytokinesis in Arabidopsis. <i>Molecular Plant</i> , <b>2016</b> , 9, 528-40  | 14.4 | 25 |
| 28 | Multiplex mutagenesis of four clustered CrRLK1L with CRISPR/Cas9 exposes their growth regulatory roles in response to metal ions. <i>Scientific Reports</i> , <b>2018</b> , 8, 12182   | 4.9  | 25 |
| 27 | Differentiation of metallicolous and non-metallicolous Salix caprea populations based on phenotypic characteristics and nuclear microsatellite (SSR) markers. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 1641-1655       | 8.4  | 25 |
| 26 | Interactome of the plant-specific ESCRT-III component AtVPS2.2 in Arabidopsis thaliana. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 397-411  | 5.6  | 24 |
| 25 | Cell cycle-regulated PLEIADE/AtMAP65-3 links membrane and microtubule dynamics during plant cytokinesis. <i>Plant Journal</i> , <b>2016</b> , 88, 531-541  | 6.9  | 21 |
| 24 | MODULATOR OF PIN genes control steady-state levels of Arabidopsis PIN proteins. <i>Plant Journal</i> , <b>2007</b> , 51, 537-50  | 6.9  | 21 |
| 23 | Histochemical analysis of root meristem activity in Arabidopsis thaliana using a cyclin:GUS (β-glucuronidase) marker line. <i>Plant and Soil</i> , <b>2000</b> , 226, 1-10   | 4.2  | 21 |
| 22 | Uptake of Alkaloids by Latex Vesicles and Isolated Mesophyll Vacuoles of Chelidonium n-tajus (Papaveraceae). <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1990</b> , 45, 949-957                    | 1.7  | 20 |
| 21 | Cellular and Subcellular Localization of Peroxidase Isoenzymes in Plants and Cell Suspension Cultures from Lupinus polyphyllus. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1989</b> , 44, 931-936 | 1.7  | 20 |
| 20 | Dual localized kinesin-12 POK2 plays multiple roles during cell division and interacts with MAP65-3. <i>EMBO Reports</i> , <b>2018</b> , 19,   | 6.5  | 19 |
| 19 | UV responses of Lolium perenne raised along a latitudinal gradient across Europe: a filtration study. <i>Physiologia Plantarum</i> , <b>2012</b> , 145, 604-18   | 4.6  | 14 |
| 18 | Characterization of the signal recognition particle (SRP) RNA population of tomato (Lycopersicon esculentum). <i>Plant Molecular Biology</i> , <b>1995</b> , 27, 669-80  | 4.6  | 14 |
| 17 | Root hair abundance impacts cadmium accumulation in Arabidopsis thaliana shoots. <i>Annals of Botany</i> , <b>2018</b> , 122, 903-914  | 4.1  | 12 |
| 16 | A trimeric CrRLK1L-LLG1 complex genetically modulates SUMM2-mediated autoimmunity. <i>Nature Communications</i> , <b>2020</b> , 11, 4859   | 17.4 | 12 |

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|----|---|-----|----|
| 15 | Comparative "phenol-omics" and gene expression analyses in peach ( <i>Prunus persica</i> ) skin in response to different postharvest UV-B treatments. <i>Plant Physiology and Biochemistry</i> , <b>2019</b> , 135, 511-519   | 5.4 | 12 |
| 14 | Arabidopsis ILITHYIA protein is necessary for proper chloroplast biogenesis and root development independent of eIF2 $\gamma$ phosphorylation. <i>Journal of Plant Physiology</i> , <b>2018</b> , 224-225, 173-182  | 3.6 | 11 |
| 13 | UV-B induction of the E3 ligase ARIADNE12 depends on CONSTITUTIVELY PHOTOMORPHOGENIC 1. <i>Plant Physiology and Biochemistry</i> , <b>2015</b> , 93, 18-28  | 5.4 | 9  |
| 12 | UV-B exposure reduces the activity of several cell wall-dismantling enzymes and affects the expression of their biosynthetic genes in peach fruit ( <i>Prunus persica</i> L., cv. Fairtime, melting phenotype). <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 1280-1289 | 4.2 | 7  |
| 11 | Involvement of the eIF2 $\gamma$ Kinase GCN2 in UV-B Responses. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1492  | 6.2 | 7  |
| 10 | The outer influences the inner: Postharvest UV-B irradiation modulates peach flesh metabolome although shielded by the skin. <i>Food Chemistry</i> , <b>2021</b> , 338, 127782  | 8.5 | 7  |
| 9  | Beyond the Visible and Below the Peel: How UV-B Radiation Influences the Phenolic Profile in the Pulp of Peach Fruit. A Biochemical and Molecular Study. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 579063   | 6.2 | 5  |
| 8  | Induction of ARI12 upon broad band UV-B radiation is suppressed by UVR8 and cryptochromes. <i>Plant Signaling and Behavior</i> , <b>2012</b> , 7, 1411-4  | 2.5 | 4  |
| 7  | Nonradioactive labeling of large DNA fragments for genome walking, RFLP and northern blot analysis. <i>BioTechniques</i> , <b>1999</b> , 27, 314-20   | 2.5 | 4  |
| 6  | Zearalenone and Zearalenol But Not Their Glucosides Inhibit Heat Shock Protein 90 ATPase Activity. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 1160  | 5.6 | 2  |
| 5  | 3rd International Symposium on Fusarium Head Blight, Session 4: Pathogenesis and Plant Pathology, Poster presentations. <i>Cereal Research Communications</i> , <b>2008</b> , 36, 471-551   | 1.1 | 1  |
| 4  | Genetic Regulation of Root Expansion in <i>Arabidopsis Thaliana</i> <b>1994</b> , 31-40   |     | 1  |
| 3  | The Plant Glycosyltransferase Family GT64: In Search of a Function <b>2018</b> , 285-303  |     | 0  |
| 2  | Histochemical analysis of root meristem activity in <i>Arabidopsis thaliana</i> using a cyclin:GUS ( $\beta$ -glucuronidase) marker line <b>2001</b> , 3-12   |     |    |
| 1  | The Plant Glycosyltransferase Family GT64: In Search of a Function <b>2018</b> , 285-303  |     |    |