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Tätigkeiten als Gutachter/Peer-review contributions

(see also at Publons)

Gutachter für internationale Fachzeitschriften, u.a. New Phytologist; Journal of Experimental Botany; Plant, Cell & Environment; Tree Physiology; Physiologia Plantarum; Plant Biology

VERÖFFENTLICHUNGEN

[Artikel in begutachteten Zeitschriften / Peer-reviewed publications](#)

(Journals listed in Web of Science or the Directory of Open Access Journals)

[Artikel in begutachteten Zeitschriften / Peer-reviewed publications](#)

(Journals **NOT** listed in Web of Science or the Directory of Open Access Journals)

[Buchkapitel / Book chapters](#)

Veröffentlichungen/Peer-reviewed publications

(Journals listed in Web of Science or the Directory of Open Access Journals)

2019

Yu D, Wildhagen H, Tylewicz S, Miskolczi PC, Bhalerao RP, Polle A. 2019. Absciscic acid signalling mediates biomass trade-off and allocation in poplar. [New Phytologist 223 \(3\): 1192-1203](#). DOI 10.1111/nph.15878

Bogeat-Triboulot MB, Buré C, Gerardin T, Chuste PA, Le Thiec D, Hummel I, Durand M, Wildhagen H, Douthe C, Molins A, Galmés J, Smith HK, Flexas J, Polle A, Taylor G, Brendel O. 2019. Additive effects of high growth rate and low transpiration rate drive differences in whole plant transpiration efficiency among black poplar genotypes. [Environmental and Experimental Botany 166: 103784](#); DOI: 10.1016/j.envexpbot.2019.05.021; **Link to preprint fulltext:** <https://hal.archives-ouvertes.fr/hal-02264373/document>

2018

Du B, Kreuzwieser J, Dannenmann M, Junker LV, Kleiber A, Hess M, Jansen K, Eiblmeier M, Gessler A, Kohnle U, Ensminger I, Rennenberg H, Wildhagen H. 2018. Foliar nitrogen metabolism of adult Douglas-fir trees is affected by soil water availability and varies little among provenances. [PLoS One 13\(3\):e0194684](#). DOI: 10.1371/journal.pone.0194684

Wildhagen H, Paul S, Allwright M, Smith HK, Malinowska M, Schnabel SK, Paulo MJ, Cattonaro F, Vendramin V, Scalabrin S, Janz D, Douthe C, Brendel O, Buré C, Cohen D, Hummel I, Le Thiec D, van Eeuwijk F, Keurentjes JJB, Flexas J, Morgante M, Robson P, Bogeat-Triboulot M-B, Taylor G, Polle A. 2018. Genes and gene clusters related to genotype and drought-induced variation in saccharification potential, lignin content and wood anatomical traits in *Populus nigra*. [Tree Physiology 38: 320-339](#). Article first published online on May 24, 2017. DOI: [10.1093/treephys/tpx054](#)

2017

Paul S, Wildhagen H, Janz D, Polle A. 2017. Drought effects on the tissue- and cell-specific cytokinin activity in poplar. [Annals of Botany PLANTS 10\(1\), plx067](#). DOI: 10.1093/aobpla/plx067

Junker LV, Kleiber A, Jansen K, Wildhagen H, Hess M, Kayler Z, Kammerer B, Schnitzler J-P, Kreuzwieser J, Gessler A, Ensminger I. 2017. Variation in short-term and long-term responses of photosynthesis and isoprenoid-mediated photoprotection to soil water availability in four Douglas-fir provenances. [Scientific Reports 7:40145](#). DOI: 10.1038/srep40145

2016

Allwright MR, Payne A, Emiliani G, Milner S, viger M, Rouse F, Keurentjes JJB, Bérard A, Wildhagen H, Faivre-Rampant P, Polle A, Morgante M, Taylor G. 2016. Biomass traits and candidate genes for bioenergy revealed through association genetics in coppiced European *Populus nigra* (L.). [Biotechnology for Biofuels 9: 195](#). DOI: 10.1186/s13068-016-0603-1

Hess M, Wildhagen H, Junker LV, Ensminger I. 2016. Transcriptome responses to temperature, water availability and photoperiod are conserved among mature trees of two divergent Douglas-fir provenances from a coastal and an interior habitat. [BMC Genomics 17:682](#). DOI: 10.1186/s12864-016-3022-6

Paul S, Wildhagen H, Janz D, Teichmann T, Hänsch R, Polle A. 2016. Tissue- and cell-specific cytokinin activity in *Populus × canescens* monitored by ARR5::GUS reporter lines in summer and winter. [Frontiers in Plant Science 7:653](#). DOI: 10.3389/fpls.2016.00652

Neophytou C, Weisser A-M, Landwehr D, Šeho M, Kohnle U, Ensminger I, Wildhagen H. 2016. Assessing the relationship between height growth and molecular genetic variation in Douglas-fir (*Pseudotsuga menziesii*) provenances. [European Journal of Forest Research 135: 465](#). DOI: 10.1007/s10342-016-0946-y

2015

Müller T, Freund F, Wildhagen H, Schmid KJ. 2015. Targeted re-sequencing of five Douglas-fir provenances reveals population structure and putative target genes of positive selection. [Tree Genetics & Genomes 11:816](#). DOI: 10.1007/s11295-014-0816-z

2013

Wildhagen H, Bilela S, Rennenberg H. 2013. Low temperatures counteract short-day induced nitrogen storage, but not accumulation of bark storage protein transcripts in bark of grey poplar (*Populus × canescens*) trees. [Plant Biology 15: 44-56](#). DOI: 10.1111/j.1438-8677.2012.00687.x

Malcheska F, Honsel A, Wildhagen H, Dürr J, Larisch C, Rennenberg H, Herschbach C. 2013. Differential expression of specific sulphate transporters underlies seasonal and spatial patterns of sulphate allocation in trees. [Plant, Cell & Environment 7:1285-1295](#). DOI: 10.1111/pce.12058

Hess M, Wildhagen H, Ensminger I. 2013. Suitability of Illumina deep mRNA sequencing for reliable gene expression profiling in a non-model conifer species (*Pseudotsuga menziesii*). [Tree Genetics & Genomes 9: 1513 – 1527](#). DOI: 10.1007/s11295-013-0656-2

2012

Janz D, Lautner S, Wildhagen H, Behnke K, Schnitzler J-P, Rennenberg H, Fromm J, Polle A. 2012. Salt stress induces the formation of a novel type of 'pressure wood' in two *Populus* species. [New Phytologist 194: 129-141](#). DOI: 10.1111/j.1469-8137.2011.03975.x

Larisch C, Dittrich M, Wildhagen H, Lautner S, Fromm J, Polle A, Hedrich R, Rennenberg H, Müller T, Ache P. 2012. Poplar wood rays are involved in seasonal remodelling of tree physiology. [Plant Physiology 160: 1515-1529](#). DOI: 10.1104/pp.112.202291

2011

Luo Z-B, Li K, Gai Y, Göbel C, Wildhagen H, Jiang X, Feußner I, Rennenberg H, Polle A. 2011. The ectomycorrhizal fungus (*Paxillus involutus*) modulates leaf physiology of poplar towards improved salt tolerance. [Environmental and Experimental Botany 72: 304-311](#). DOI: 10.1016/j.envexpbot.2011.04.008

2010

Wildhagen H, Dürr J, Ehlting B, Rennenberg H. 2010. Seasonal nitrogen cycling in the bark of field-grown Grey poplar is correlated with meteorological factors and gene expression of bark storage proteins. [Tree Physiology 30: 1096-1110](#). DOI: 10.1093/treephys/tpq018

Rennenberg H, Wildhagen H, Ehling B. 2010. Nitrogen nutrition of poplar trees. [Plant Biology 12: 275-291](#). DOI: 10.1111/j.1438-8677.2009.00309.x

Dürr J, Bücking H, Mult S, Wildhagen H, Palme K, Rennenberg H, Dittengou F, Herschbach C. 2010. Seasonal and cell type specific expression of sulfate transporters in the phloem of *Populus* reveals tree specific characteristics for SO₄²⁻ storage and mobilization. [Plant Molecular Biology 72: 499-517](#). DOI: 10.1007/s11103-009-9587-6

2009

Luo Z-B, Janz D, Jiang X, Göbel C, Wildhagen H, Tan Y, Rennenberg H, Feussner I, Polle A. 2009. Upgrading root physiology for stress tolerance by ectomycorrhizas: insights from metabolite and transcriptional profiling into reprogramming for stress anticipation. [Plant Physiology 151: 1902-1917](#). DOI: 10.1104/pp.109.143735

Veröffentlichungen/Peer-reviewed publications

(Journals **NOT** listed in Web of Science or the Directory of Open Access Journals)

2019

Indreica A, Teodosiu M, Petrișan A-M, Öder V, Kasper J, Bergmeier E, Leuschner C, Gailing O, Hohnwald S, Wildhagen H, Walentowski H. 2019. Nemoral deciduous forests under climatic extremes – phytosociological studies along climatic gradients in SW Romania. [Proceedings of the Biennial International Symposium "Forest and Sustainable Development", p. 139-148](#). 8th Edition. Transilvania University Press. ISSN 1843-505X. Link to fulltext: <https://silvic.unitbv.ro/images/conferinte/fsd/proceedings/14.-Indreica-et-al.---ID-178.pdf>

Buchkapitel / Book chapters

2016

Taylor G, Allwright MR, Smith HK, Polle A, Wildhagen H, Hertzberg M, Bhalerao RP, Keurentjes JJB, Scalabrin S, Scaglione D, Morgante M. Bioenergy Trees: Genetic and genomic strategies to improve yield. [Perennial Biomass Crops for a Resource-Constrained World. pp 167-190](#). Editors: Barth S, Murphy-Bokern D, Kalinina O, Taylor G, Jones M. Springer, Cham. DOI: 10.1007/978-3-319-44530-4_15