

Dr. Bálint Jákli

Publikationen in begutachteten Zeitschriften

Jákli, B.; Jákli-Hauer, M.; Böttcher, F.; Meyer zur Müdehorst, J.; Senbayram, M. & Dittert, K. (2018): Leaf, canopy and agronomic water-use efficiency of field-grown sugar beet in response to potassium fertilization. *Journal of Agronomy and Crop Science* 204, 99-110.

Jákli, B.; Jákli-Hauer, M.; Böttcher, F.; Meyer zur Müdehorst, J.; Senbayram, M. & Dittert, K. (2018): Leaf, canopy and agronomic water-use efficiency of field-grown sugar beet in response to potassium fertilization. *Journal of Agronomy and Crop Science* 204, 99-110.

Li, L.; **Jákli, B.;** Lu, P.; Ren, T.; Ming, J.; Liu, S.; Wang, S. & Lu, J. (2018): Assessing leaf nitrogen concentration of winter oilseed rape with canopy hyperspectral technique considering a non-uniform vertical nitrogen distribution. *Ind. Crop Prod.* 116, 1–14 .

Jákli, B.; Tavakol, E.; Tränkner, M.; Senbayram, M. & Dittert K (2017) Quantitative limitations to photosynthesis in K deficient sunflower and their implications on water-use efficiency. *J. Plant Physiol.* 209, 20-30.

Jákli, B.; Tränkner, M.; Senbayram, M. & Dittert, K. (2016) Adequate supply of potassium improves plant water-use efficiency but not leaf water-use efficiency of spring wheat. *J. Plant Nutr. Soil Sci.* 179, 733-745.

Tränkner, M.; **Jákli, B.;** Tavakol, E.; Geilfus, C.M.; Cakmak, I.; Dittert, K. & Senbayram, M. (2016) Magnesium deficiency decreases biomass water-use efficiency and increases leaf water-use efficiency and oxidative stress in barley plants. *Plant Soil* 406, 409-423.

Otieno, D.O.; K'Otuto, G.O.; **Jákli, B.;** Schröttle, P.; Maina, J.N.; Jung, E. & Onyango, J.C. (2011) Spatial heterogeneity in ecosystem structure and productivity in a moist Kenyan savanna. *Plant Ecol.* 212: 769-783.

Redebeiträge bei Konferenzen

Jákli, B.; Tavakol, E.; Tränkner, M. & Dittert, K. (2017) Restricted CO₂diffusion through the leaf mesophyll and not stomatal regulation limits photosynthesis in K deficient sunflower. International Plant Nutrition Colloquium (IPNC), August 21st – 24th, Copenhagen, Denmark.

Jákli, B.; Tränkner, M.; Tavakol, E. & Dittert, K. (2017) Restricted CO₂diffusion through the leaf mesophyll and not stomatal regulation limits photosynthesis in K deficient crop plants. *Frontiers of Potassium*, January 25th – 27th, Rome, Italy.

Jákli, B.; Senbayram, M.; Tränkner, M.; Tavakol, E. & Dittert, K. (2015) Der Einfluss von Kalium auf die Wassernutzungseffizienz von Weizen – vom einzelnen Blatt zur gesamten Pflanze. International Conference of the German Society of Plant Nutrition (DGP), September 17th – 18th, Göttingen, Germany.

Jákli, B.; Senbayram, M.; Tränkner, M.; Tavakol, E. & Dittert, K. (2015) The role of potassium in optimizing water-use efficiency and drought adaptation - from single leaves to whole plants. 45th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ), August 31st – September 04th, Göttingen, Germany.

Poster bei Konferenzen

Tränkner, M.; Senbayram, M.; **Jákli, B.;** Halicki, S.; Dittert, K. & Zörb, C. (2017) Comparative Study on Proteome Changes in Response to Potassium Deficiency and Drought in *Triticum aestivum* Roots. Frontiers of Potassium Science Conference, January 25th – 27th, Rome, Italy.

Jákli, B.; Senbayram, M.; Meyer zur Mühlehorst, J.; Fuchs, M.; Böttcher, F.; Hertwig, F.; Lingner, A. & Dittert, K. (2016) Drone-based remote screening of water-use efficiency. 75th Congress of the International Institute for Beet Research (IIRB), February 16th – 17th, Brussels, Belgium.

Jákli, B.; Tränkner, M. & Senbayram, M. (2014) Effects of potassium deficiency on water use efficiency of *Triticum aestivum*. International Conference of the German Society of Plant Nutrition (DGP), September 10th – 12th, Halle (Saale), Germany.

Tavakol, E.; Tränkner, M.; **Jákli, B.;** Dittert, K. & Senbayram, M. (2014) Adequate K supply enhances tolerance to drought situations via optimized NPQ and antioxidant activity in spring wheat. International Conference of the German Society of Plant Nutrition (DGP), September 10th – 12th, Halle (Saale), Germany.

Weitere Publikationen

Jákli, B. & Hertwig, F. (2017) Kaliumdüngung verbessert die Wassernutzungseffizienz – Ertrag, Evapotranspiration und Skalenabhängigkeit. 13. Tag der Agrarmeteorologie, January 11th, Deutscher Wetterdienst (DWD), Leipzig, Germany.

Jákli, B. (2016) The relation between potassium nutrition and water-use efficiency of crop plants – Comparative studies from leaf to field scale. 1st ed. Cuvillier Verlag, Göttingen. ISBN 978-3-7369-9430-0. eISBN 978-3-7369-8430-1.

Thiel, H. & **Jákli, B.** (2016) Kalium erhöht die Wassernutzungseffizienz pflanzlicher Systeme. Kali & Steinsalz 03/2016, 38-47.