

**Georg-August-Universität Göttingen**  
**Department für Nutzpflanzenwissenschaften**  
**Abt. Pflanzenernährung und Ertragsphysiologie**

**Verzeichnis der Veröffentlichungen**  
**(List of publications)**

**2009 - 2019**

**2019**

- Abbadi J, Dittert K, Steingrobe B, Claassen N** (2019) Mechanisms of potassium uptake efficiency and dynamics in the rhizosphere of safflower and sunflower in different soils. *J PLANT NUTR* 42: 2459-2483, doi: 10.1080/01904167.2019.1655035
- Bhadoria PS, Samal D, Singh S, Steingrobe B, Claassen N** (2019) Significance of P influx and Root Growth in P Acquisition at Different Growth Stages of Maize, Wheat and Groundnut Grown in a P-Deficient Alfisol. *J. of the Indian Society of Soil Science. Journal of the Indian Society of Soil Science* 67: 73-84, doi: 10.5958/0974-0228.2019.00008.2
- Cabeza RA, Steingrobe B, Claassen N** (2019) Phosphorus Fractionation in Soils Fertilized with Recycled Phosphorus Products. *SOIL SCI PLANT NUTR* 19: 611-619, doi: 10.1007/s42729-019-00061-8
- Grahmann K, Dittert K, Verhulst N, Govaerts B, Buerkert A** (2019) N-15 Fertilizer recovery in different tillagestraw systems on a Vertisol in north-west Mexico. *SOIL USE MANAGE* 35: 482-491
- Hauer-Jákli M, Tränkner M** (2019) Critical Leaf Magnesium Thresholds and the Impact of Magnesium on Plant Growth and Photo-Oxidative Defense: A Systematic Review and Meta-Analysis From 70 Years of Research. *FRONT PLANT SCI* 10: 766, doi: 10.3389/fpls.2019.00766
- Hou W, Tränkner M, Lu J, Yan J, Huang S, Ren T, Cong R, Li X** (2019) Interactive effects of nitrogen and potassium on photosynthesis and photosynthetic nitrogen allocation of rice leaves. *BMC PLANT BIOL* 19(1): 302, doi: 10.1186/s12870-019-1894-8
- Khanal G, Wachendorf C, Dittert K, Willich M, Dietz H, Buerkert A, Ingold M** (2019) Nitrogen turnover in a repeatedly manured arid subtropical soil: Incubation studies with 15N isotopes. *J PLANT NUTR SOIL SC* 182:836-845, doi: 10.1002/jpln.201800340
- Tränkner M, Jamali Jaghdani S** (2019) Minimum magnesium concentrations for photosynthetic efficiency in wheat and sunflower seedlings. *PLANT PHYSIOL BIOCH* 144: 234-243, doi: 10.1016/j.plaphy.2019.09.040

**2018**

- Cabeza RA, Claassen N** (2018) Sistemas radicales de cultivos: extensión, distribución and growth. *Agro Sur* 45: 31-45
- Claassen N, Römer W, Hilmer R, Steingrobe B, Möllers C, Dittert K** (2018) Wie viel Kalium braucht der Raps. *Raps* 4: 28-33
- Grahmann K, Verhulst N, Dittert K, Govaerts B, Buerkert A** (2018) High N fertilizer application to irrigated wheat in Northern Mexico for conventionally tilled and permanent raised beds: Effects on N balance and short term N dynamics. *J PLANT NUTR SOIL SC* 181: 606-620
- Guo L, Liu MJ, Zhang YA, Tao YY, Zhang F, Li GY, Dittert K, Lin S** (2018) Yield differences get large with ascendant altitude between traditional paddy and water-saving ground cover rice production system. *EUR J AGRON* 92: 9-16
- Hou W, Yan J, Jákli B, Lu J, Ren T, Cong R, Li X** (2018) Synergistic effects of nitrogen and potassium on quantitative limitations to photosynthesis in rice (*Oryza sativa* L.). *J AGR FOOD CHEM* 20: 5125-5132
- Jákli B, Hauer-Jákli 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. *J AGRON CROP SCI* 204: 99-110
- Köbke S, Senbayram M, Pfeiffer B, Nacke H, Dittert K** (2018) Post-harvest N<sub>2</sub>O and CO<sub>2</sub> emissions related to plant residue incorporation of oilseed rape and barley straw depend on soil NO<sub>3</sub><sup>-</sup> content. *SOIL TILL RES* 179: 105-113
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- 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

**Römer W, Steingrobe B** (2018) Fertilizer Effect of Phosphorus Recycling Products. SUSTAINABILITY-BASEL 10: 1166, doi: Doi:10.3390/su10041166

**Tavakol E, Jakli B, Cakmak I, Dittert K, Karlovsky P, Pfohl K, Senbayram M** (2018) Optimized potassium nutrition improves plant-water-relations of barley under PEG-induced osmotic stress. PLANT SOIL 430: 23-25

**Tränkner M, Jákli B, Tavakol E** (2018) Functioning of potassium and magnesium in photosynthesis, photosynthate translocation and photoprotection. PHYSIOL PLANTARUM 163: 414-431

## 2017

**Abbadi J, Dittert K, Steingrobe B, Claassen N** (2017) Mechanisms of Phosphorus Uptake Efficiency of Safflower and Sunflower Grown in Different Soils. Research in Plant Sciences 5: 26-42

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**Liese R, Schulze J, Cabeza RA** (2017) Nitrate application or P deficiency induce a decline in Medicago truncatula N<sub>2</sub>-fixation by similar changes in the nodule transcriptome. Sci Rep 7: 46264

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**Wiesler F, Hund-Rinke K, Gäth S, George E, Greef JM, Hölzle LE, Holz F, Hülsbergen KJ, Pfeil R, Severin K, Frede HG, Blum B, Schenkel H, Horst W, Dittert K, Ebertseder T, Osterburg B, Philipp W, Pietsch M** (2016) Use of organic fertilizers and organic wastes in agriculture. Berichte über Landwirtschaft - Zeitschrift für Agrarpolitik und Landwirtschaft 94: 1-25, doi: <http://dx.doi.org/10.12767/buel.v94i1.124.g251>

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- Senbayram M, Tränkner M, Dittert K, Brück H** (2015) Daytime leaf water use efficiency does not explain the relationship between plant N status and biomass water-use efficiency of tobacco under non-limiting water supply. *J PLANT NUTR SOIL SC* 178 (4): 682-692, doi: 10.1002/jpln.201400608
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