

Georg-August-Universität Göttingen  
Department für Nutzpflanzenwissenschaften  
Abt. Qualität pflanzlicher Erzeugnisse  
**Verzeichnis der Veröffentlichungen**  
**(List of publications)**

2008 – 2022

2022

- Aljabi HR, Pawelzik E** (2022): Influence of weather conditions on the activity and properties of alpha-amylase in maize grains. *Journal of Cereal Science* 103, 103403. <https://doi.org/10.1016/j.jcs.2021.103403>
- Erika C, Ulrich D, Naumann M, Smit I, Horneburg B, Pawelzik E** (2022): Flavor and Other Quality Traits of Tomato Cultivars Bred for Diverse Production Systems as Revealed in Organic Low-Input Management. *Frontiers in Nutrition* 9:916642. <https://doi.org/10.3389/fnut.2022.916642>
- Geburt K, Albrecht EH, Pointke M, Pawelzik E, Gerken M, Traulsen M** (2022): A Comparative Analysis of Plant-Based Milk Alternatives Part 2: Environmental Impacts. *Sustainability* 14, 8424. <https://doi.org/10.3390/su14148424>
- Hagenguth J, Kanski L, Kahle H, Naumann M, Pawelzik E, Becker HC, Horneburg B** (2022): Breeders' Sensory Test: A new tool for early selection in breeding for tomato (*Solanum lycopersicum*) flavour. *Plant Breeding* 141, 96–107. <https://doi.org/10.1111/pbr.12994>
- Munawar AA, Zulfahrizal, Meilina H, Pawelzik E** (2022): Near infrared spectroscopy as a fast and non-destructive technique for total acidity prediction of intact mango: Comparison among regression approaches. *Computers and Electronics in Agriculture* 193(2):106657. <https://doi.org/10.1016/j.compag.2021.106657>
- Pointke M, Pawelzik E** (2022): Plant-Based Alternative Products: Are They Healthy Alternatives? Micro- and Macronutrients and Nutritional Scoring. *Nutrients* 14, 601. <https://doi.org/10.3390/nu14030601>
- Pointke M, Albrecht EH, Geburt K, Gerken M, Traulsen I, Pawelzik E** (2022): A Comparative Analysis of Plant-Based Milk Alternatives Part 1: Composition, Sensory, and Nutritional Value. *Sustainability* 14, 7996. <https://doi.org/10.3390/su14137996>
- Pointke M, Ohlau M, Risius A, Pawelzik E** (2022): Plant-Based Only: Investigating Consumers' Sensory Perception, Motivation, and Knowledge of Different Plant-Based Alternative Products on the Market. *Foods* 11, 2339. <https://doi.org/10.3390/foods11152339>
- Rivero AG, Keutgen AJ, Pawelzik E** (2022): Antioxidant Properties of Tomato Fruit (*Lycopersicon.esculentum* Mill.) as Affected by Cultivar and Processing Method. *Horticulturae* 8, 547. <https://doi.org/10.3390/horticulturae8060547>
- Sarfo J, Pawelzik E, Keding GB** (2022): Are processed fruits and vegetables able to reduce diet costs and address micronutrient deficiencies? Evidence from rural Tanzania. *Public Health Nutrition* 25(9), 2637–2650. <https://doi.org/10.1017/S1368980022000982>

**Wilmer L, Tränkner M, Pawelzik E, Naumann M** (2022): Sufficient potassium supply enhances tolerance of potato plants to PEG-induced osmotic stress. *Plant Stress* 5, 100102. <https://doi.org/10.1016/j.stress.2022.100102>

**Wilmer L, Pawelzik E, Naumann M** (2022): Comparison of the Effects of Potassium Sulphate and Potassium Chloride Fertilisation on Quality Parameters, Including Volatile Compounds, of Potato Tubers After Harvest and Storage. *Frontiers in Plant Science* 13,920212. <https://doi.org/10.3389/fpls.2022.920212>

## 2021

**Aljabi HR, Pawelzik E** (2021) Impact of Cultivar and Growing Conditions on Alpha-Amylase Properties in Wheat. *Starch - Stärke* 73 (3-4):2000032. <https://doi.org/10.1002/star.202000032>

**Chea L, Cut E, Naumann M, Smit I, Horneburg B, Pawelzik E** (2021): Morphological, Leaf Nutrient, and Fruit Quality Characteristics of Diverse Tomato Cultivars under Organic Low-Input Management. *Sustainability* 13(21), 12326; <https://doi.org/10.3390/su132112326>

**Chea L, Mejjide A, Meinen C, Pawelzik E, Naumann M** (2021a) Cultivar-dependent responses in plant growth, leaf physiology, phosphorus use efficiency, and tuber quality of potatoes under limited phosphorus availability conditions. *Frontiers in Plant Science* 12 (1728). <https://doi.org/10.3389/fpls.2021.723862>

**Chea L, Pfeiffer B, Schneider D, Daniel R, Pawelzik E, Naumann M** (2021b) Morphological and metabolite responses of potatoes under various phosphorus levels and their amelioration by plant growth-promoting rhizobacteria. *International Journal of Molecular Sciences* 22 (10):5162. <https://doi.org/10.3390/ijms22105162>

**Chikpah SK, Korese JK, Hensel O, Sturm B, Pawelzik E** (2021) Rheological properties of dough and bread quality characteristics as influenced by the proportion of wheat flour substitution with orange-fleshed sweet potato flour and baking conditions. *LWT* 147: 111515. <https://doi.org/10.1016/j.lwt.2021.111515>

**Daoud B, Naumann M, Ulrich D, Pawelzik E, Smit I** (2021): Assessment of sensory profile and instrumental analyzed attributes influenced by different potassium fertilization levels in three tomato cultivars. *Journal of Applied Botany and Food Quality* 94, 182 - 191, <https://doi.org/10.5073/JABFQ.2021.094.022>

**Hassan AB, Pawelzik E, von Hoersten D** (2021) Effect of microwave heating on the physiochemical characteristics, colour and pasting properties of corn (*Zea mays* L.) grain. *LWT* 138:110703. <https://doi.org/10.1016/j.lwt.2020.110703>

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**Jordan I, Keding GB, Stosius L, Hawrysz I, Janiszewska K and Heil EA** (2021) Changes in vegetable consumption in times of COVID-19 - first findings from an international civil science project. *Frontiers in Nutrition*, 8:686786. <https://doi.org/10.3389/fnut.2021.686786>

**Kanski L, Kahle H, Naumann M, Hagenguth J, Ulbrich A, Pawelzik E** (2021) Cultivation systems, light intensity, and their influence on yield and fruit quality parameters of tomatoes. *Agronomy* 11 (6):1203. <https://doi.org/10.3390/agronomy11061203>

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**Ndisya J, Gitau A, Mbuge D, Arefi A, Bădulescu L, Pawelzik E, Hensel, O, Sturm B** (2021): Vis-NIR Hyperspectral Imaging for Online Quality Evaluation during Food Processing: A Case Study of Hot Air Drying of Purple-Speckled Cocoyam (*Colocasia esculenta* (L.) Schott). Processes 9, 1804. <https://doi.org/10.3390/pr9101804>

**Sarfo J, Pawelzik E, Keding GB** (2021) Dietary patterns as characterized by food processing levels and their association with the health outcomes of rural women in East Africa. Nutrients 13(8): 2866. <https://doi.org/10.3390/nu13082866>

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**Xing S, Keding GB and Pawelzik E** (2021) Effects of processing on nutrient composition in guava and jackfruit based snacks. African Journal of Food Science, 15(6):236-253. <https://doi.org/10.5897/AJFS2021.2104>

## 2020

**Adnan A, Naumann M, Mörlein D, Pawelzik E** (2020) Reliable Discrimination of Green Coffee Beans Species: A Comparison of UV-Vis-Based Determination of Caffeine and Chlorogenic Acid with Non-Targeted Near-Infrared Spectroscopy. Foods 9 (6):788. <https://doi.org/10.3390/foods9060788>

**Chiveu J, Ubbenjans U, Kehlenbeck K, Pawelzik E, Naumann M** (2020) Partitioning of dry matter and minerals in Kenyan common guava under salt stress: implications for selection of adapted accessions for saline soils. Forests, Trees and Livelihoods 29 (2):99-118. <https://doi.org/10.1080/14728028.2020.1752312>

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- Koch M, Winkelmann MK, Hasler M, Pawelzik E, Naumann M** (2020b) Root growth in light of changing magnesium distribution and transport between source and sink tissues in potato (*Solanum tuberosum* L.). *Scientific Reports* 10 (1):8796. <https://doi.org/10.1038/s41598-020-65896-z>
- Naumann M, Koch M, Thiel H, Gransee A, Pawelzik E** (2020) The Importance of Nutrient Management for Potato Production Part II: Plant Nutrition and Tuber Quality. *Potato Research* 63 (1):121-137. <https://doi.org/10.1007/s11540-019-09430-3>
- Niether W, Glawe A, Pfohl K, Adamtey N, Schneider M, Karlovsky P, Pawelzik E** (2020) The effect of short-term vs. long-term soil moisture stress on the physiological response of three cocoa (*Theobroma cacao* L.) cultivars. *Plant Growth Regulation*. <https://doi.org/10.1007/s10725-020-00638-9>
- Sarfo J, Keding GB, Boedecker J, Pawelzik E and Termote C** (2020) The Impact of Local Agrobiodiversity and Food Interventions on Cost, Nutritional Adequacy, and Affordability of Women and Children's Diet in Northern Kenya: A Modeling Exercise. *Frontiers in Nutrition* 7:129. <https://doi.org/10.3389/fnut.2020.00129>
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- Shrestha L, Kulig B, Moscetti R, Massantini R, Pawelzik E, Hensel O, Sturm B** (2020) Optimisation of Physical and Chemical Treatments to Control Browning Development and Enzymatic Activity on Fresh-cut Apple Slices. *Foods* 9 (1):76. <https://doi.org/10.3390/foods9010076>
- Shrestha L, Kulig B, Moscetti R, Massantini R, Pawelzik E, Hensel O, Sturm B** (2020) Comparison between Hyperspectral Imaging and Chemical Analysis of Polyphenol Oxidase Activity on Fresh-Cut Apple Slices. *Journal of Spectroscopy* Article ID 7012525 <https://doi.org/10.1155/2020/7012525>

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**Pohlmann M, Naumann M, van Bijsterveldt C** (2018) 40-Tage-Methode zur Reduktion von Kartoffelzysten nematoden. *Kartoffelbau* 69:19-23

**Wietzke A, Westphal C, Gras P, Kraft M, Pfohl K, Karlovsky P, Pawelzik E, Tschardt T, Smit I** (2018) Insect pollination as a key factor for strawberry physiology and marketable fruit quality. *Agriculture, ecosystems & environment* 258:197-204. <https://doi.org/10.1016/j.agee.2018.01.036>

**Zanklan AS, Becker HC, Sørensen M, Pawelzik E, Grüneberg WJ** (2018) Genetic diversity in cultivated yam bean (*Pachyrhizus* spp.) evaluated through multivariate analysis of morphological and agronomic traits. *Genetic Resources and Crop Evolution* 65:811-843. <https://doi.org/10.1007/s10722-017-0582-5>

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**Adnan A, Hörsten von D, Pawelzik E, Mörlein D** (2017) Rapid Prediction of Moisture Content in Intact Green Coffee Beans Using Near Infrared Spectroscopy. *Foods* 38: 6-11,38

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**Niether W, Smit I, Armengot L, Schneider M, Gerold G, Pawelzik E** (2017) Environmental growing conditions in five production systems induce stress response and affect chemical composition of cocoa (*Theobroma cacao* L.) beans. *J AGR FOOD CHEM* 65: 10165-10173

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## 2012

**Mohammed, Afrah E.; Smit, Inga; Pawelzik, Elke; Keutgen, Anna J.; Horneburg, Bernd** (2012): Organically grown tomato (*Lycopersicon esculentum* Mill.): bioactive compounds in the fruit and infection with *Phytophthora infestans*. In: *J. Sci. Food Agric.* 92 (7), S. 1424–1431.

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**Eggert, K.; Zörb, C.; Mühling, K. H.; Pawelzik, E.** (2011): Proteome analysis of *Fusarium* infection in emmer grains (*Triticum dicoccum*). In: *Plant Pathology* 60 (5), S. 918–928.

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