

Wissenschaftliche Publikationen:

Artikel in Wissenschaftliche Zeitschriften:

Joensuu, K., Kotilainen, T., Räsänen, K., Rantanen, M., Usva, K. & Silvenius, F., 2024. Assessment of climate change impact and resource-use efficiency of lettuce production in vertical farming and greenhouse production in Finland: a case study. *The International Journal of Life Cycle Assessment*, pp.1-13.
<https://link.springer.com/article/10.1007/s11367-024-02343-5>

Rantanen, M., **Joensuu, K.**, Räsänen, K., Silvenius, F., Usva, K., Rikala, K. and Karhu, S., 2023. Life cycle assessment of red raspberry production a comparative case study of open field and tunnel production in Finland. In XIII International Rubus and Ribes Symposium 1388 (pp. 165-170).
https://www.actahort.org/books/1388/1388_25.htm

Joensuu, K.; Harrison, E.; Hartikainen, H. What to Do with Food Waste? A Holistic Feasibility Framework to Evaluate Different Solutions. *Sustainability* 2022, 14, 13004. <https://doi.org/10.3390/su142013004>

Joensuu, K., Rimhanen, K., Heusala, H., Saarinen, M., Usva, K., Leinonen, I., & Palosuo, T. 2021. Challenges in using soil carbon modelling in LCA of agricultural products—the devil is in the detail. *The International Journal of Life Cycle Assessment*, 26(9), 1764-1778. <https://doi.org/10.1007/s11367-021-01967-1>

Joensuu, K., Hartikainen, H., Karppinen, S., Jaakkonen, A.K. and Kuoppa-aho, M., 2020. Developing the collection of statistical food waste data on the primary production of fruit and vegetables. *Environmental Science and Pollution Research* <https://doi.org/10.1007/s11356-020-09908-5>

Rasi, S., Timonen, K., **Joensuu, K.**, Regina, K., Virkajarvi, P., Heusala, H., Tampio, E. and Luostarinen, S., 2020. Sustainability of Vehicle Fuel Biomethane Produced from Grass Silage in Finland. *Sustainability*, 12(10), p.3994. <https://doi.org/10.3390/su12103994>

Timonen, K., Sinkko, T., Luostarinen, S., Tampio, E., & **Joensuu, K.** (2019). LCA of anaerobic digestion: Emission allocation for energy and digestate. *Journal of Cleaner Production* 235: 1567-1579.
<https://doi.org/10.1016/j.jclepro.2019.06.085>

Joensuu, K., Pulkkinen, H., Kurppa, S., Ypyä, J., Virtanen, Y. 2018. Applying the nutrient footprint method to the beef production and consumption chain. *The International Journal of Life Cycle Assessment*.
<https://doi.org/10.1007/s11367-018-1511-3>

Joensuu, K., & Silvenius, F. (2017). Production of mealworms for human consumption in Finland: a preliminary life cycle assessment. *Journal of Insects as Food and Feed* 3: 211 – 216.
<http://www.wageningenacademic.com/doi/abs/10.3920/JIFF2016.0029>

Joensuu, K., Sinkko, T. (2017) "Harvesting straw in Poland and Finland: How does it affect greenhouse gas emissions, biodiversity and soil physical quality?", *International Journal of Energy Sector Management*,
<https://doi.org/10.1108/IJESM-01-2017-0007> <http://www.emeraldinsight.com/doi/full/10.1108/IJESM-01-2017-0007>

Hytönen, T., Pinho, P., Rantanen, M., Kariluoto, S., Lampi, A., Edelmann, M., **Joensuu, K.**, Kauste, K., Mouhu, K., Piironen, V., Halonen, L., Elomaa, P. (2017). Effects of LED light spectra on lettuce growth and nutritional composition. *Lighting Research & Technology*, 1477153517701300.
<http://journals.sagepub.com/doi/abs/10.1177/1477153517701300>

Joensuu, K., & Saarinen, M. (2017). Applying soil quality indicators in the context of life cycle assessment in a Finnish case study. *The International Journal of Life Cycle Assessment*, 22(9), 1339-1353.
<https://doi.org/10.1007/s11367-016-1247-x>

Joensuu, K. & Sinkko, T. 2015. Environmental sustainability and improvement options for agribiomass chains: Straw and turnip rape. *Biomass and Bioenergy* 83: 1-7.
<https://doi.org/10.1016/j.biombioe.2015.08.014>

Dissertation:

Joensuu, K. 2022. Improving the life cycle assessment of agricultural products: Focus on soil quality and nutrient footprint. *Dissertationes Schola doctoralis scientiae circumiectalis, alimentariae, biologicae. Universitatis Helsinkiensis*. <https://helda.helsinki.fi/handle/10138/345767>

Buchkapitel:

Joensuu, K. 2018. Utilization of 2nd class fruits and vegetables. In: Simanovska, J. & Billingham, C. (Eds.) Food waste not want not – Why food waste is a big deal and how to scale-up preventive action. Foundation for European Progressiva Studies, Brussels, Belgium. https://www.feps-europe.eu/attachments/publications/food_web.pdf

Konferenzpublikationen:

Joensuu, K., Harrison, E., Hartikainen, H., Kymäläinen, M., Kivimäki, S., Pirttijärvi, T. 2020. Climate impact of house cricket (*Acheta domesticus*) production for human consumption. Eberle, U., Smetana, S., Bos, U. (Eds.), 2020. 12th International Conference on Life Cycle Assessment of Food (LCAFood2020), 13-16 October 2020, Berlin Virtually, Germany. DIL, Quakenbrück, Germany., p. 694-696.
<https://onedrive.live.com/?authkey=%21AP0nfW%5F0%5F6RRXRE&cid=E04FA834AFB66516&id=E04FA834AFB66516%2167672&parId=E04FA834AFB66516%2159394&o=OneUp>

Pulkkinen, H., **Joensuu, K.**, Hietala, S. 2018. Including soil carbon and land use changes to comparison of carbon footprints of beef production systems. Proceedings of the LCA Food 2018 conference, Bangkok

Joensuu, K., Hartikainen, H., Karppinen, S., Jaakkonen, A.-K., Kuoppa-aho, M. 2019. Developing statistical food waste data collection on the primary production of fruits and vegetables. Oral presentation at the 7th International Conference on Sustainable Solid Waste Management. 26-29 June 2019, Heraklion, Greece.

Joensuu, K., Harrison, E., Hartikainen, H. 2019. Sustainability of house cricket (*Acheta domesticus*) production for human consumption. Oral presentation at the Sustainability science days 2019: Making Use of Sustainability Science. 9.-10.5.2019, Aalto University campus, Espoo, Finland.

Joensuu, K., Pulkkinen, H., Kurppa, S., Ypyä, J., Virtanen, Y. 2016. Modelling Nitrogen and Phosphorus Footprints, Case Finnish Beef Chain. Oral presentation at the 10th International Conference on Life Cycle Assessment of Food. 19.-21.10.2016, Dublin, Ireland.

Joensuu, K., Saarinen, M., Sinkko, T. 2013. Soil quality life cycle assessment of organic and conventional turnip rape and cereals. Oral presentation at the SETAC LCA Case Study Symposium 11.-13.11.2013, Rome, Italy.