

## CV for Anders Damgaard (\*1978)

Orcid: 0000-0002-0452-1220

### Degrees:

2010 PhD in Environmental Engineering, Technical University of Denmark  
2006 MSc in Environmental Engineering, Technical University of Denmark



### Positions:

2012- Senior Researcher, Department of Environmental and Resource Engineering, Technical University of Denmark (DTU)  
2010-2012: PostDoc, Department of Civil, Construction and Environmental Engineering, NCSU, USA.

### Research Area:

Focus is on technologies and assessment tools and models in the environmental area. Specialist area on environmental assessment of waste management systems as well as resource recovery systems. Main responsible for the development of the LCA-models EASEWASTE / EASETECH at DTU. Research projects for policy development in the area for Danish EPA, Nordic Council of Ministers, and others

### Memberships of scientific committees, review:

2016- Member of Organisation Committees for 3 international conferences (DK, IT).  
2012- Head of the Assessment Committees for 6 PhD theses (DTU, DK), Main-examiner of 5 PhD Thesis (Trondheim, No; Linköping, SE; Göteborg, SE; Southampton, UK; Budapest, Hu; Antalya, TR) Pre-examiner of 1 PhD thesis (Linköping, SE),

**Web of Science publications:** 42; **Citations:** 1897; **h-index:** 26;

**Other publications:** 18; **Patents:** 0.

### Supervision of PhDs, 2017 – present (ongoing or finished in 2017 or later):

Main supervisor for 2 PhD and co-supervisor for 7 PhD in this period.

### Selected projects:

- **Wastewater Treatment plant of the future** - Project VARGA. Danish Environmental Protection Agency (2017-2022). Role and activities: Responsible for work package about LCA of new key technologies.
- **Circular Economy in Construction** – Analysis of Potentials from Increased Reuse and Recycling of Construction and Demolition Waste. Danish Transport, Construction and Housing Agency (2019-2020). Role and activities: Responsible for work package about LCA of reuse and recycling of key materials.
- **On the road – towards increased recycling of household waste** (life cycle assessment and socio-economic consequence assessment). Danish Environmental Protection Agency. (2017-2018). Role and activities: Responsible for work package about LCA.
- **The Environmental Benefit of Material Recycling**. Nordic council of ministers (2014-2015). Role and activities: Responsible for LCA for Denmark and part of project team

### **Selected publications (2017 or later):**

- Fragó, M., **Damgaard, A.**, Rebsdorf, M., Nielsen, P. H., & Rygaard, M. (2022). Challenges in carbon footprint evaluations of state-of-the-art municipal wastewater resource recovery facilities. *Journal of Environmental Management*, 320, [115715].
- Henriksen, T., Astrup, T. F., & **Damgaard, A.** (2021). Data representativeness in LCA: A framework for the systematic assessment of data quality relative to technology characteristics. *Journal of Industrial Ecology*, 25(1), 51-66.
- Bisinella, V., Hulgaard, T., Riber, C., **Damgaard, A.**, & Christensen, T. H. (2021). Environmental assessment of carbon capture and storage (CCS) as a post-treatment technology in waste incineration. *Waste Management*, 128, 99-113.
- Fragò, M., **Damgaard, A.**, Madsen, J. A., Andersen, J. K., Thornberg, D., Andersen, M. H., & Rygaard, M. (2021). From wastewater treatment to water resource recovery: Environmental and economic impacts of full-scale implementation. *Water Research*, 204, [117554].
- Lodato, C., Zarrin, B., **Damgaard, A.**, Baumeister, H., & Astrup, T. F. (2021). Process-oriented life cycle assessment modelling in EASETECH. *Waste Management*, 127, 168-178
- Christensen, T. H., **Damgaard, A.**, Levis, J., Zhao, Y., Björklund, A., Arena, U., Barlaz, M. A., Starostina, V., Boldrin, A., Astrup, T. F., & Bisinella, V. (2020). Application of LCA modelling in integrated waste management. *Waste Management*, 118, 313-322.
- Henriksen, T., Levis, J. W., Barlaz, M. A., & **Damgaard, A.** (2019). Approaches to fill data gaps and evaluate process completeness in LCA—perspectives from solid waste management systems. *International Journal of Life Cycle Assessment*, 24(9), 1587-1601.
- Nørup, N., Pihl, K., **Damgaard, A.**, & Scheutz, C. (2019). Evaluation of a European textile sorting centre: Material flow analysis and life cycle inventory. *Resources, Conservation and Recycling*, 143, 310-319.
- Eriksen, M. K., **Damgaard, A.**, Boldrin, A., & Astrup, T. F. (2019). Quality Assessment and Circularity Potential of Recovery Systems for Household Plastic Waste. *Journal of Industrial Ecology*, 23(1), 156-168.
- Takou, V., Boldrin, A., Astrup, T. F., & **Damgaard, A.** (Eds.) (2019). *LCA of Single Use Plastic Products in Denmark*. Danish Environmental Protection Agency. Miljøprojekter No. 2104
- Bisinella, V., Albizzati, P. F., Astrup, T. F., & **Damgaard, A.** (Eds.) (2018). *Life Cycle Assessment of management options for beverage packaging waste*. Danish Ministry of Environment and Food
- Nørup, N., Pihl, K., **Damgaard, A.**, & Scheutz, C. (2018). Development and testing of a sorting and quality assessment method for textile waste. *Waste Management*, 79, 8-21
- Henriksen, T., Astrup, T. F., & **Damgaard, A.** (2018). Linking Data Choices and Context Specificity in Life Cycle Assessment of Waste Treatment Technologies: A Landfill Case Study. *Journal of Industrial Ecology*, 22(5), 1039-1049.
- Andreasi Bassi, S., Christensen, T. H., & **Damgaard, A.** (2017). Environmental performance of household waste management in Europe - an example of 7 countries. *Waste Management*, 69, 545-557.