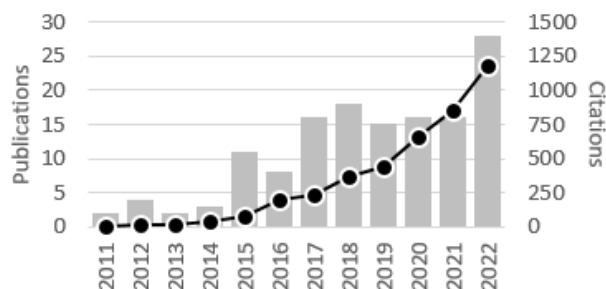


## Curriculum Vitae 2022 – Peter Fantke

Orcid: [0000-0001-7148-6982](https://orcid.org/0000-0001-7148-6982)



### Degrees

2012 PhD in Technology Assessment & Environment, Stuttgart University, DE  
2005 MSc in Geoecology, Potsdam University, DE

### Positions

2021 – Head of Section, Section for Quantitative Sustainability Assessment (QSA), Department of Environmental and Resource Engineering, Technical University of Denmark (DTU Sustain)  
2021 – Professor, QSA, DTU Management Engineering/DTU Sustain  
2016 – 2021 Associate professor, QSA, DTU Management Engineering  
2014 – 2016 Assistant professor, QSA, DTU Management Engineering  
2012 – Managing Director, USEtox International Center hosted at DTU  
2012 – 2014 Postdoc, QSA, DTU Management Engineering

### Research Areas

Development and application of quantitative methodologies for: Life cycle impact assessment (LCIA); Exposure assessment; Air pollution modelling; Chemical alternatives assessment & chemical substitution; Absolute environmental sustainability assessment for chemical pollution; Bridging digitalization with sustainable chemistry

### Distinctions and awards

2020 International Society of Exposure Science “Joan M. Daisey Outstanding Young Scientist” award  
2014 European Commission “Support for training & career development of researcher” Marie Curie Actions Career Integration Grant (CIG)  
2013 – 2020 United Nations Environment Programme academic support grants  
2009 German Research Foundation exchange researcher fellowship

### Memberships of scientific committees, review

2021 – Member of the OECD ‘Working Party on Risk Management’  
2016 – Founding member of scientific societies ‘Association for the Advancement of Alternatives Assessment’ and ‘Europe Regional Chapter of the International Society of Exposure Science’  
2016 – 2020 Co-chair and evaluator of research projects and programmes for the European Research Council, Norwegian Research Council, Singapore Research Council  
2014 – Associate Editor/Advisory Board Member of scientific journals ‘Journal of Exposure Science and Environmental Epidemiology’ and ‘Sustainable Chemistry and Pharmacy’  
2014 – Member of PhD review committees at universities in Denmark, Sweden, Germany, and Canada  
2014 – Member of ‘Life Sciences Institute Sustainable Chemical Alternatives Committee’  
2013 – Co-chair and task force chair of flagship project of the 3rd phase of the UNEP/SETAC Life Cycle Initiative ‘Global Guidance on Life Cycle Impact Assessment (LCIA) Indicators’  
2013 – 2018 Initiator and chair of global ‘Consensus for pesticide emission quantification’ effort

**Web of Science publications:** 137; **Citations:** 3350; **h-index:** 33; **Other publications:** 20

### Supervision of PhDs, 2017 – present

Main supervisor for 6 PhD and co-supervisor for 9 PhD

### Selected grants, 2017 – present

EU HE, “Partnership on Risk Assessment”, Amount granted to Dept.: 1,723,760 DKK, Project period: 2022-2029

EU H2020, “MINAGRIS Plastics & soil health”, Amount granted to Dept: 2,422,180 DKK, Project period: 2021-2026

EU H2020, “Sustainable pesticide use”, Amount granted to Dept: 4,346,550 DKK, Project period: 2020-2025

Swedish Foundation for Strategic Environmental Research, “SafeChem Sustainable use of chemicals”, Amount granted to Dept: 1,358,500 DKK, Project period: 2020-2024

EU H2020, “Prorisk Ecotoxicity Assessment”, Amount granted to Dept: 2,210,590 DKK, Project period: 2020-2024

Bayer CropScience “Global pesticide impacts”, Amount granted to Dept: 1,812,920 DKK, Project period: 2020-2023

EU H2020, “Food-nutrition-security cloud”, Amount granted to Dept: 1,173,940 DKK, Project period: 2019-2023

UNEP, “SAICM Chemicals in products”, Amount granted to Dept: 1,976,380 DKK, Project period: 2019-2022

### Other significant contributions

2021 – Appointed member of the Novo Nordisk ‘Sustainability Advisory Council’

2020 – Leading the development of quantitative methodologies for assessing absolute environmental sustainability boundaries for chemical pollution

2019 Chapter lead author for “United Nations Environment Programme: Global Chemicals Outlook II

2017 – 2021 Councillor ‘European strategy’ of the International Society of Exposure Science (ISES) Europe

2014 – Leading advancements in exposure science methodologies for pesticides and industrial chemicals

2012 – Coordination and contribution to the scientific advancement of USEtox, the UNEP/SETAC scientific consensus model for human toxicity and ecotoxicity characterization

### Selected publications

**Fantke, P.**, Bruinen de Bruin, Y., Schlüter, U., Connolly, A., Bessems, J., Kephelopoulos, S., et al., 2022. The European Exposure Science Strategy 2020–2030. *Environ Int* 170, 107555.

Kosnik, M.B., Hauschild, M., **Fantke, P.**, 2022. Toward assessing absolute environmental sustainability of chemical pollution. *Environ Sci Technol* 56, 4776-4787

**Fantke, P.**, Chiu, W.A., Aylward, L., Judson, R., Huang, L., Jang, S., et al., 2021. Exposure and toxicity characterization of chemical emissions and chemicals in products. *Int J Life Cycle Assess* 26, 899-915

**Fantke, P.**, Cinquemani, C., Yaseneva, P., De Mello, J., Schwabe, H., Ebeling, B., Lapkin, A.A., 2021. Transition to sustainable chemistry through digitalisation. *Chem* 7, 2866-2882

**Fantke, P.**, Huang, L., Overcash, M., Griffing, E., Jolliet, O. 2020. Life cycle based alternatives assessment (LCAA) for chemical substitution. *Green Chem* 22, 6008-6024

Ögmundarson, Ó., Herrgård, M.J., Förster, J., Hauschild, M.Z., **Fantke, P.**, 2020. Addressing environmental sustainability of biochemicals. *Nat Sustain* 3, 167-174

**Fantke, P.**, N. Illner. 2019. Goods that are good enough: Introducing an absolute sustainability perspective for managing chemicals in consumer products. *Curr Opin Green Sustain Chem* 15, 91-97

**Fantke, P.**, McKone, T.E., Tainio, M., Jolliet, O., Apte, J.S., Stylianou, et al., 2019. Global effect factors for exposure to fine particulate matter. *Environ Sci Technol* 53, 6855-6868

Kirchhübel, N., **Fantke, P.**, 2019. Getting the chemicals right: Toward characterizing toxicity and ecotoxicity impacts of inorganic substances. *J Cleaner Prod* 227, 554-565

**Fantke, P.**, Jolliet, O., Apte, J.S., Hodas, N., Evans, J., et al., 2017. Characterizing aggregated exposure to primary PM: Recommended intake fractions for indoor and outdoor sources. *Environ Sci Technol* 51, 9089-9100