Publications:

A Quantitative Property-Property Relationship for the Internal Diffusion Coefficients of Organic Compounds in Solid Materials
Publication: Research - peer-review › Journal article – Annual report year: 2017

Sensitivity-based research prioritization through stochastic characterization modeling
Publication: Research - peer-review › Journal article – Annual report year: 2017

A review of models for near-field exposure pathways of chemicals in consumer products
Publication: Research - peer-review › Journal article – Annual report year: 2016

Ecological and human health risks associated with abandoned gold mine tailings contaminated soil
Publication: Research - peer-review › Journal article – Annual report year: 2017

Exploring REACH as a potential data source for characterizing ecotoxicity in life cycle assessment
Publication: Research - peer-review › Journal article – Annual report year: 2016

IMPROVING SUBSTANCE INFORMATION IN USETOX®, PART 1: DISCUSSION ON DATA AND APPROACHES FOR ESTIMATING FRESHWATER ECOTOXICITY EFFECT FACTORS: Effect factor in USETOX
Publication: Research - peer-review › Journal article – Annual report year: 2017

Stochastic modeling of near-field exposure to parabens in personal care products
Publication: Research - peer-review › Journal article – Annual report year: 2016

Towards harmonizing natural resources as an area of protection in life cycle impact assessment
Publication: Research - peer-review › Journal article – Annual report year: 2017

USEtox® 2.0 Documentation (Version 1.00)
Publication: Research › Report – Annual report year: 2017
A consistent framework for modeling inorganic pesticides: Adaptation of life cycle inventory models to metal-based pesticides

A flexible matrix-based human exposure assessment framework suitable for LCA and CAA

A life-cycle assessment of poly-hydroxybutyrate extraction from microbial biomass using dimethylcarbonate

Area of Concern: A new paradigm in life cycle assessment for the development of footprint metrics

A suggested minimum data list for documenting experimental plant uptake studies

Bio-based chemicals - green, but also sustainable?
Ögmundarson, Ó., Herrgard, M., Förster, J. & Fantke, P. 2016 Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Characterizing health impacts from indoor and outdoor exposure to fine particulates

Combined nutritional and environmental life cycle assessment of fruits and vegetables

Comprehensive assessment of fruits and vegetables human health effects in a LCA context

Coupled near-field and far-field exposure assessment framework for chemicals in consumer products

Estimating pesticide emission fractions for use in LCA: A global consensus-building effort

Exposure to chemicals in consumer products: The role of the near-field environment
Exposure to Chemicals in Consumer Products: The Role of the Near-Field Environment

Exposure to chemicals in food packaging as a sustainability trade-off in LCA

Framework for Multi-Pathway Cumulative Exposure for Comparative Assessments

Getting the chemicals right: addressing inorganics in sustainability assessments of technologies
Müller, N. & Fantke, P. 2016

Global guidance on environmental life cycle impact assessment indicators: Progress and case study

Harmonizing exposure metrics and methods for sustainability assessments of food contact materials

Health effects from indoor and outdoor exposure to fine particulate matter in life cycle impact assessment

Health effects from indoor and outdoor exposure to fine particulate matter in life cycle impact assessment
Fantke, P., McKone, T. E., Jolliet, O. & Vigon, B. 2016

Health impacts of fine particulate matter

HESI pilot project: Testing a qualitative approach for incorporating exposure into alternatives assessment

High-throughput exposure modeling to support prioritization of chemicals in personal care products
Impacts of food consumption: A missing hot spot in LCA?
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2016

Improving plant bioaccumulation science through consistent reporting of experimental data
Publication: Research - peer-review » Journal article – Annual report year: 2016

Indoor inhalation intake fractions of fine particulate matter: Review of influencing factors
Publication: Research - peer-review » Journal article – Annual report year: 2015

Integrated approach for characterizing and comparing exposure-based impacts with life cycle impacts
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2016

Integrated indoor and outdoor exposure assessment framework for fine particulate matter pollution
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2016

Integrating exposure into chemical alternatives assessment using a qualitative approach
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2016

Life cycle human health impacts of 875 pesticides
Publication: Research - peer-review » Journal article – Annual report year: 2015

Mainstreaming life cycle thinking through a consistent approach to footprints
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2016

Multi-pathway exposure modelling of chemicals in cosmetics with application to shampoo
Publication: Research - peer-review » Journal article – Annual report year: 2016

Natural resources as an area of protection in LCA - outcomes of the discussion by the working group on resources within the UNEP-SETAC Life Cycle Initiative
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2016
Safe and Sustainable: Optimizing Material Flows in a Circular Economy
Fantke, P. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

The substitution of hazardous chemicals in the international context - Opportunity for promoting sustainable chemistry
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

What are the elements required to improve exposure estimates in life cycle assessments?
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Accounting for nearfield exposure to chemicals in consumer products in LCA
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Active Learning in Sustainability Teaching
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Aiding Designers to make Practitioner-like Interpretations of Life Cycle Assessment Results
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

A multi-compartmental framework for near and far-field exposure to consumer products
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Analysing half-lives for pesticide dissipation in plants
Publication: Research - peer-review › Journal article – Annual report year: 2015

Assessing comparative terrestrial ecotoxicity of Cd, Co, Cu, Ni, Pb, and Zn: The influence of aging and emission source
Publication: Research - peer-review › Journal article – Annual report year: 2015

Comparative exposure to DEHP from food contact materials: application of the product intake fraction
Ernstoff, A., Jolliet, O. & Fantke, P. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Consistently Integrating Life-Cycle Impact Metrics into Chemical Alternatives Assessment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Defining product intake fraction to quantify and compare exposure to consumer products
Publication: Research - peer-review › Journal article – Annual report year: 2015

Developing, Applying, and Evaluating Models for Rapid Screening of Chemical Exposures
Near-field exposure factor modeling of chemicals in personal care products
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Particulate Matter Formation
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Pesticide Substitution: Combining Food Safety with Environmental Quality
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Risk-based high-throughput chemical screening and prioritization using exposure models and in vitro bioactivity assays
Publication: Research - peer-review › Journal article – Annual report year: 2015

The Glasgow consensus on the delineation between pesticide emission inventory and impact assessment for LCA
Publication: Research - peer-review › Journal article – Annual report year: 2015

The Role of Dissipation Processes in Plants for Modeling Bioaccumulation
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

The USEtox story: A survey of model developer visions and user requirements
Publication: Research - peer-review › Journal article – Annual report year: 2014

Viewpoint: Making Sense of the Minefield of Footprint Indicators
Publication: Research - peer-review › Journal article – Annual report year: 2015

Confronting Health Effects of Particulate Matter in LCIA
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Confronting the Health Burden of Fine Particulate Matter Exposures in Product-Oriented Impact Assessment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Considering human exposure to pesticides in food products: Importance of dissipation dynamics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Developing and applying high-throughput exposure models for screening-level chemical assessment: The ExpoDat project
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2014

Direct Exposure of Consumers to Personal Care Products
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2014

Estimating Half-Lives for Pesticide Dissipation from Plants
Publication: Research - peer-review » Journal article – Annual report year: 2014

Exposure and Toxicity Modeling of Chemicals in Personal Care Products: Case Study Using Parabens
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2014

Flagging health risks of chemicals by combining in vitro bioactivity data with environmental and consumer product exposure modeling
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2014

Global guidance on environmental life cycle impact assessment indicators: findings of the scoping phase
Publication: Research - peer-review » Journal article – Annual report year: 2014

Health Impacts of Consumer Exposure During Product Use: Near Field Exposure Applied to Risk Assessment and LCA
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2014

How can we avoid the lock-in problem in the substitution of hazardous chemicals used in consumer products?
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2014

How can we avoid the lock-in problem in the substitution of hazardous chemicals used in consumer products?
Publication: Research - peer-review » Conference article – Annual report year: 2015

Incorporating Health Impacts from Exposure to Chemicals in Food Packaging in LCA
Publication: Research - peer-review » Article in proceedings – Annual report year: 2014

Incorporating Health impacts from Exposure to Chemicals in Food Packaging in Life Cycle Assessment
Publication: Research - peer-review » Poster – Annual report year: 2015

Integrating nutritional benefits and impacts in a life cycle assessment framework: A US dairy consumption case study
Screening human health risk of environmental and direct exposure to personal care products
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Substitution and food: Toward more sustainable pesticide use
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

SWITCH-Med SCP Policy Toolkit: Mainstreaming Sustainable Consumption and Production into Key Economic Sectors in the Mediterranean
Publication: Research - peer-review › Report – Annual report year: 2014

Variability and uncertainty of intake fraction as a function of distance from source
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

What, if It Is All Safe? The Need for Pesticide Risk Minimization
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Characterizing exposure of bystanders and residents to pesticides applied in agricultural fields
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Characterizing pesticide dissipation in food crops
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Dynamics of pesticide uptake into plants: From system functioning to parsimonious modeling
Publication: Research - peer-review › Journal article – Annual report year: 2013

Keeping USEtox up-to-date: What is coming and how you can contribute
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Prioritizing consumer product categories based on exposure estimates
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Variability of Pesticide Dissipation Half-Lives in Plants
Publication: Research - peer-review › Journal article – Annual report year: 2013
Deposition and residues of azoxystrobin and imidacloprid on greenhouse lettuce with implications for human consumption
Publication: Research - peer-review › Journal article – Annual report year: 2012

Health impact and damage cost assessment of pesticides in Europe
Publication: Research - peer-review › Journal article – Annual report year: 2012

Parameterization Models for Pesticide Exposure via Crop Consumption
Publication: Research - peer-review › Journal article – Annual report year: 2012

Pesticide residue dynamics in passion fruits: Comparing field trial and modelling results
Publication: Research - peer-review › Journal article – Annual report year: 2012

Dynamic multicrop model to characterize impacts of pesticides in food
Publication: Research - peer-review › Journal article – Annual report year: 2012

Plant uptake of pesticides and human health: Dynamic modeling of residues in wheat and ingestion intake
Publication: Research - peer-review › Journal article – Annual report year: 2012

Projects:

Addressing inorganic chemicals in life cycle impact assessment
Müller, N., Fantke, P. & Hauschild, M. Z.
15/12/2015 → 14/12/2018
Project: PhD

Assessing Life Cycle Impacts of Bio-plastics from Dicarboxylic Acids
Ögmundarson, Ó., Fantke, P., Förster, J. & Olsen, S. I.
01/11/2015 → 30/11/2018
Project

Assessing Life Cycle Impacts of Bioplastics from Dicarboxylic Acids
Ögmundarson, Ó., Fantke, P. & Herrgard, M.
01/10/2015 → 30/09/2018
Project: PhD

QUAN-TOX
Fantke, P.
01/04/2014 → 31/03/2018
Project

Quantifying the Sustainability of Consumer Products: Focusing on Chemical Exposures
15/12/2013 → 23/03/2017
Project: PhD
TOX-TRAIN: The implementation of a TOXicity assessment Tool for pRActical evaluation of life-cycle Impacts of technologies
Fantke, P., Birkved, M. & Ernstoff, A.
01/11/2011 → 31/10/2015
Project

LC-IMPACT: Development and application of environmental Life Cycle Impact assessment Methods for imProved sustainability Characterisation of Technologies
01/12/2009 → 31/05/2013
Project

Activities:

Indicators, frameworks, and instruments to evaluate impacts and costs of chemicals in articles in the circular economy
Fantke, P. (Invited speaker)
1 Dec 2016 → 2 Dec 2016
Activity: Talks and presentations › Conference presentations

Indoor Chemistry Modeling in Context: What questions do we answer?
Fantke, P. (Lecturer)
7 Nov 2016 → 8 Nov 2016
Activity: Talks and presentations › Conference presentations