Research outputs:

**Learning-by-doing: experience from 20 years of teaching LCA to future engineers**
Research output: Research - peer-review › Journal article – Annual report year: 2019

**Critical Review**
Research output: Education - peer-review › Book chapter – Annual report year: 2017

**Introduction to Part III: Application of LCA in Practice**
Research output: Education - peer-review › Book chapter – Annual report year: 2018

**LCA of Wastewater Treatment**
Research output: Education - peer-review › Book chapter – Annual report year: 2018

**Life Cycle Impact Assessment**
Research output: Education - peer-review › Book chapter – Annual report year: 2017

**Overview of Existing LCIA Methods—Annex to Chapter 10**
Research output: Education - peer-review › Book chapter – Annual report year: 2018

**Uncertainty Management and Sensitivity Analysis**
Research output: Education - peer-review › Book chapter – Annual report year: 2017

**Assessment of Metal Toxicity in Marine Ecosystems: Comparative Toxicity Potentials for Nine Cationic Metals in Coastal Seawater**
Research output: Research - peer-review › Journal article – Annual report year: 2015

**Contribution of waterborne nitrogen emissions to hypoxia-driven marine eutrophication: modelling of damage to ecosystems in life cycle impact assessment (LCIA)**

**Indoor Air Pollutant Exposure for Life Cycle Assessment: Regional Health Impact Factors for Households**
Research output: Research - peer-review › Journal article – Annual report year: 2015

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

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

**Characterization modelling of aquatic ecotoxicity from metal emission to be applied in Life Cycle Impact Assessment**
Research output: Research › Ph.D. thesis – Annual report year: 2015

**Development of characterization factors for metals in coastal seawater**
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

**Global guidance on environmental life cycle impact assessment indicators: findings of the scoping phase**
Research output: Research - peer-review › Journal article – Annual report year: 2014
Pursuing an ecological component for the Effect Factor in LCIA methods
Research output: Research - peer-review › Poster – Annual report year: 2014

Spatially differentiated comparative toxicity potentials of metals in global coastal seawater
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Updated US and Canadian normalization factors for TRACI 2.1
Research output: Research - peer-review › Journal article – Annual report year: 2013

Addressing Geographic Variability in the Comparative Toxicity Potential of Copper and Nickel in Soils
Research output: Research - peer-review › Journal article – Annual report year: 2013

Analytical Propagation of Uncertainty in Life Cycle Assessment Using Matrix Formulation
Research output: Research - peer-review › Journal article – Annual report year: 2013

Challenges in LCA-based decision making involving heavy metals long-term emissions from landfills
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

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

Exploring parameter uncertainty and seasonal variability for human health intake fractions in life cycle assessment: Extended abstract
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

IMPACT World+: Una nueva metodología global y regionalizada de Análisis del Impacto de Ciclo de Vida
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

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

Land use impacts on biodiversity in LCA: proposal of characterization factors based on functional diversity
Research output: Research - peer-review › Journal article – Annual report year: 2013

Life Cycle Risks and Impacts of Nanotechnologies
Research output: Research - peer-review › Book chapter – Annual report year: 2013

Quantification of uncertainty and spatial variability of characterisation factors in the new global LCIA method IMPACT World+
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Evaluation of spatial variability of metal bioavailability in soils using geostatistics
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

A Methodology for Inclusion of Terrestrial Ecotoxic Impacts of Metals in Life Cycle Impact Assessment
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Are Free Ion Activity Models Sufficient Alternatives to Biotic Ligand Models in Evaluating Metal Toxic Impacts in Terrestrial Environments?
Research output: Research › Poster – Annual report year: 2011
Comparison of metal toxic impacts between aquatic and terrestrial organisms: is the free ion concentration a sufficient descriptor?
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

LC-IMPACT Deliverable 2.1. Terrestrial ecotoxicity
Research output: Research - peer-review › Report – Annual report year: 2011

LC-IMPACT Deliverable 5.3. First policy brief
Research output: Research - peer-review › Report – Annual report year: 2011

Normalization references for Europe and North America for application with USEtox™ characterization factors
Research output: Research - peer-review › Journal article – Annual report year: 2011

Normalization references for USEtoxTM-based toxic impact categories: North American and European economic systems
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

USEtox fate and ecotoxicity factors for comparative assessment of toxic emissions in Life Cycle Analysis: Sensitivity to key chemical properties
Research output: Research - peer-review › Journal article – Annual report year: 2011

USEtox human exposure and toxicity factors for comparative assessment of toxic emissions in life cycle analysis: sensitivity to key chemical properties
Research output: Research - peer-review › Journal article – Annual report year: 2011

Analytical Uncertainty Propagation in Life Cycle Inventory and Impact Assessment: Application to an Automobile Front Panel
Research output: Research - peer-review › Journal article – Annual report year: 2010

Development of Normalization Factors for Canada and the United States and Comparison with European Factors
Research output: Research - peer-review › Journal article – Annual report year: 2010

From emission to ecotoxicity: comparative assessment of fate and ecotoxicity in LCA using USEtox
Research output: Research › Sound/Visual production (digital) – Annual report year: 2010

The clearwater consensus: the estimation of metal hazard in fresh water
Research output: Research - peer-review › Journal article – Annual report year: 2010

Using the Lashof Accounting Methodology to Assess Carbon Mitigation Projects Using LCA: Ethanol Biofuel as a Case Study
Research output: Research - peer-review › Journal article – Annual report year: 2010

CKow: A Dynamic Model for Chemical Transfer to Meat and Milk
Research output: Research - peer-review › Journal article – Annual report year: 2009

Integrating Indoor Air Pollutant Exposure within Life Cycle Impact Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2009

Life Cycle Assessment of Mine Tailings Management in Canada
Research output: Research - peer-review › Journal article – Annual report year: 2009
Building a model based on scientific consensus for Life Cycle Impact Assessment of chemicals: The Search for Harmony and Parsimony
Research output: Research - peer-review › Journal article – Annual report year: 2008

International consensus model for comparative assessment of chemical emissions in LCA
Research output: Research › Conference abstract in proceedings – Annual report year: 2008

USEtox - The UNEP-SETAC toxicity model: recommended characterisation factors for human toxicity and freshwater ecotoxicity in Life Cycle Impact Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2008

A flexible matrix algebra framework for the multimedia multipathway modelling of emission to impacts
Research output: Research - peer-review › Journal article – Annual report year: 2007

International consensus model for comparative assessment of chemicals
Research output: Research › Poster – Annual report year: 2007

Towards a consensus model in chemical characterisation modelling for LCA: comparison and harmonisation of models for fate and ecotoxicity effects
Research output: Research › Poster – Annual report year: 2007

Towards a consensus model in chemical characterisation modelling for LCA: comparison and harmonisation of models for human exposure and toxicity
Research output: Research › Conference abstract for conference – Annual report year: 2007

Establishing a framework for Life Cycle Toxicity Assessment: Findings of the Lausanne review workshop
Research output: Research › Journal article – Annual report year: 2006

Multimedia and Food Chain Modelling of Toxics for Comparative Risk and Life Cycle Impact Assessment
Research output: Research › Doctoral thesis – Annual report year: 2006

An implemented approach for estimating uncertainties for toxicological impact characterisation
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Bringing Science and Pragmatism together - a Tiered Approach for Modelling Toxicological Impacts in LCA
Research output: Research - peer-review › Journal article – Annual report year: 2004

Comparison between three different LCIA methods for aquatic ecotoxicity and a product Environmental Risk Assessment – Insights from a Detergent Case Study within OMNITOX
Research output: Research - peer-review › Journal article – Annual report year: 2004

IMPACT 2002+: A New Life Cycle Impact Assessment Methodology
Research output: Research - peer-review › Journal article – Annual report year: 2003

Projects:

Development of a methodology for inclusion of terrestrial ecotoxic impacts of metals in life cycle impact assessment
Project: PhD

Life cycle impact assessment of long-term emissions from landfills
Project: PhD
Activities:

Learning by doing – Experience from 20 years of teaching LCA to future engineers
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Scoping Workshop - Global guidance on environmental life cycle impact assessment indicators
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

LC-IMPACT: Outcomes work package 2: toxicity
Activity: Talks and presentations › Conference presentations

Keeping USEtox up-to-date: What is coming and how you can contribute
Activity: Talks and presentations › Conference presentations

Exploring parameter uncertainty and seasonal variability for human health intake fractions in life cycle assessment
Activity: Talks and presentations › Conference presentations

Modelling human and ecosystems exposures and impacts for life-cycle assessment: the USEtox model
Activity: Talks and presentations › Conference presentations

Towards consensus about the delimitation between life cycle inventory and impact assessment in LCAs with pesticide and fertilizer use
Activity: Attending an event › Participating in or organising a conference

Guideline committee VDI-Guideline 4601 "Environmental Indicators" (Richtlinienausschuss VDI-Richtlinie 4601 "Umweltindikatoren") (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

International Journal of Life Cycle Assessment (Journal)
Activity: Research › Journal editor