Publications:

How does the long-term aging in the soil change terrestrial ecotoxic impacts of anthropogenic metal emissions?
Owsianiak, M., Holm, P. E., Fantke, P., Christiansen, K. S., Borggaard, O. & Hauschild, M. Z. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Human health no-effect levels of TiO2 nanoparticles as a function of their primary size
Publication: Research - peer-review › Journal article – Annual report year: 2017

Improved comparative toxicity potentials of 23 metallic elements in soils: addressing solid- and liquid-phase speciation in environmental fate, exposure, and effects
Owsianiak, M., Huijbregts, M. & Hauschild, M. Z. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

LCA of Soil and Groundwater Remediation
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Life Cycle Inventory Analysis
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Limitations of experiments performed in artificially made OECD standard soils for predicting cadmium, lead and zinc toxicity towards organisms living in natural soils
Publication: Research - peer-review › Journal article – Annual report year: 2017

Potentials and limitations of footprints for gauging environmental sustainability
Laurent, A. & Owsianiak, M. 2017 In : Current Opinion in Environmental Sustainability. 25, p. 20-27
Publication: Research - peer-review › Journal article – Annual report year: 2017

Advancing absolute sustainability assessments of products with a new Planetary Boundaries based life-cycle impact assessment methodology
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Assessing environmental performance of humidification technology used in supply of fresh fruit and vegetables
Fabbri, S. & Owsianiak, M. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Assessing environmental performance of hydrothermal carbonization of wet biomass at industry-relevant scales
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016
Challenges in implementing a Planetary Boundaries based Life-Cycle Impact Assessment methodology
Ryberg, M., Owsianiak, M., Richardson, K. & Hauschild, M. Z. 2016 In : Journal of Cleaner Production. 139, p. 450-459
Publication: Research - peer-review › Journal article – Annual report year: 2016

Environmental performance of hydrothermal carbonization of four wet biomass waste streams at industry-relevant scales
Publication: Research - peer-review › Journal article – Annual report year: 2016

Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil
Publication: Research - peer-review › Journal article – Annual report year: 2016

Structural and functional robustness of an environmental bacterial community degrading diesel fuel
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

The development of an operational LCIA-methodology with impact categories based on the control variables in the Planetary Boundaries framework
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Advances in assessing terrestrial toxicity of metal emissions for improved sustainability characterization of technologies
Publication: Research - peer-review › Conference abstract in proceedings – 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

Opportunities and challenges for including Planetary Boundaries in Life Cycle Assessment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Persistence of selected ammonium- and phosphonium-based ionic liquids in urban park soil microcosms
Publication: Research - peer-review › Journal article – Annual report year: 2015

Power generation from chemically cleaned coals: do environmental benefits of firing cleaner coal outweigh environmental burden of cleaning?
Publication: Research - peer-review › Journal article – Annual report year: 2015

Strengthening the Link between Life Cycle Assessment and Indicators for Absolute Sustainability To Support Development within Planetary Boundaries
Publication: Research - peer-review › Journal article – Annual report year: 2015
The need for an established allocation method when assessing absolute sustainability on a product level
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Assessing the environmental impacts of using demineralized coal for electricity generation
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Biodegradation of diesel/biodiesel blends in saturated sand microcosms
Publication: Research - peer-review › Journal article – Annual report year: 2014

Elucidating differences in metal absorption efficiencies between terrestrial soft-bodied and aquatic species
Publication: Research - peer-review › Journal article – Annual report year: 2014

How does the choice of ILCD recommended practice for characterization modelling change the assessment of environmental impacts in LCA of products
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

How does the choice of ILCD’s recommended methods change the assessment of environmental impacts in LCA of products?
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

IMPACT 2002+, ReCiPe 2008 and ILCD’s recommended practice for characterization modelling in life cycle impact assessment: a case study-based comparison
Publication: Research - peer-review › Journal article – Annual report year: 2014

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

Aquatic toxicity testing of silver nanoparticles – a matter of timing
Sørensen, S. N., Owsiiania, M., Engelbrekt, C. & Baun, A. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Assessing Environmental Sustainability of Remediation Technologies in a Life Cycle Perspective is Not So Easy
Publication: Research - peer-review › Journal article – Annual report year: 2013

Mapping and characterization of LCA networks
Publication: Research - peer-review › Journal article – Annual report year: 2013
Relative quantitative PCR to assess bacterial community dynamics during biodegradation of diesel and biodiesel fuels under various aeration conditions
Publication: Research - peer-review › Journal article – Annual report year: 2011

Rola ramnolipidów w środowisku naturalnym
Publication: Research - peer-review › Journal article – Annual report year: 2011

Biodegradation in a Partially Saturated Sand Matrix: Compounding Effects of Water Content, Bacterial Spatial Distribution, and Motility
Publication: Research - peer-review › Journal article – Annual report year: 2010

Evaluation of Bioaugmentation with Entrapped Degrading Cells as a Soil Remediation Technology
Publication: Research - peer-review › Journal article – Annual report year: 2010

Modelling bioaugmentation in unsaturated porous media: The linuron herbicide example
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Towards successful bioaugmentation with entrapped cells as a soil remediation technology: Effects of the water content and cell dispersal.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Adsorption of Sodium Dodecylbenzenesulphonate (SDBS) on Candida maltosa EH 15 Strain: Influence on Cell Surface Hydrophobicity and n-alkanes Biodegradation
Publication: Research - peer-review › Journal article – Annual report year: 2009

Biodegradation and surfactant-mediated biodegradation of diesel fuel by 218 microbial consortia are not correlated to cell surface hydrophobicity
Publication: Research - peer-review › Journal article – Annual report year: 2009

Biodegradation of diesel/biodiesel blends by a consortium of hydrocarbon degraders: Effect of the type of blend and the addition of biosurfactants
Publication: Research - peer-review › Journal article – Annual report year: 2009

Biodegradation of diesel fuel by a microbial consortium in the presence of 1-alkoxymethyl-2-methyl-5-hydroxypyridinium chloride homologues
Publication: Research - peer-review › Journal article – Annual report year: 2009

Phenol and n-alkanes (C_{12} and C_{16}) utilization: Influence on yeast cell surface hydrophobicity
Projects:

Climate tipping indicators for improved environmental sustainability assessment of bioplastics
Fabbri, S., Owsianniak, M. & Hauschild, M. Z.
01/09/2017 → 31/08/2020
Project: PhD

Integration of boundaries for selected planetary threads into life cycle assessment
Ryberg, M., Hauschild, M. Z. & Owsianniak, M.
15/12/2014 → 29/03/2018
Project: PhD

Development of a methodology for inclusion of terrestrial ecotoxic impacts of metals in life cycle impact assessment
01/04/2010 → 12/12/2013
Project: PhD

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

Activities:

Climate change mitigation potential of hydrochars
Owsianniak, M. (Speaker)
31 May 2017
Activity: Talks and presentations › Conference presentations

SETAC Europe: 27th Annual Meeting – Environmental Quality Through Transdisciplinary Collaboration
Owsianniak, M. (Participant)
8 May 2017
Activity: Attending an event › Participating in or organising a conference

Are free ion activity models (FIAM) sufficient alternatives to biotic ligand models (BLM) for metal toxic impact assessment in terrestrial ecosystems?: Student day in Danish Society of Soil Sciences (DFJ)
Owsianniak, M. (Speaker)
9 Sep 2011
Activity: Talks and presentations › Conference presentations

LC-IMPACT Workshop on Spatial Differentiation in LCA: Terrestrial ecotoxicity with a specific focus on metals
Owsianniak, M. (Speaker)
25 Jan 2011
Activity: Talks and presentations › Conference presentations