Stefan Trapp - Research outputs - DTU Orbit (27/07/2019)

**How to characterise non-extractable residues (NER) in PBT assessment - development of a harmonised procedure to be used in routine testing**


Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2019 › Research › peer-review

**Microbial turnover of glyphosate to biomass: utilization as nutrient source, formation of AMPA and biogenic NER in an OECD 308 test**


Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Predicting plant uptake of ionic chemicals: Redefining the dominant processes**


Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2019 › Research › peer-review

**Predicting the uptake of emerging organic contaminants in vegetables irrigated with treated wastewater - Implications for food safety assessment**


Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**A unified approach for including non-extractable residues (NER) of chemicals and pesticides in the assessment of persistence**


Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Bioaccumulation of ionizable organic chemicals in fish – The quest for reliable predictors**


Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2018 › Research › peer-review

**Classification and modelling of non-extractable residues (NER) formation from pesticides in soil**


Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2018 › Research › peer-review

**Improving risk assessment of agricultural reuse of wastewater through predictive plant uptake modeling of ionizable contaminants**


Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2018 › Research › peer-review

**Improving the interpretation of Non-Extractable Residues (NER) in degradation assessment**

Interpretation of non-extractable residues (NERs) in the persistence assessment


Kinetic Modeling of Weak Base nAChR Ligand Selective Trapping within Intracellular Acidic Vesicles: Insights into Mechanisms Underlying Nicotine Addiction and Smoking Cessation


Microbial growth yield estimation for incomplete degradation and macronutrient utilization – the case of glyphosate


Modelling the fate of organic microcontaminants in wastewater treatment and agricultural reuse – Experiences from two existing cases


Persistence assessment for a circular economy


Phytoscreening for vinyl chloride in groundwater discharging to a stream


Predicting the fate of pharmaceuticals during wastewater treatment and crop irrigation with reclaimed wastewater


Prediction of the formation of biogenic non-extractable residues during degradation of environmental chemicals from biomass yields

Trapp, S., Brock, A. L., Nowak, K. M. & Kästner, M., 2018, In : Environmental Science and Technology. 52, 2, p. 663-672

Predictive models to assess the uptake of organic micro contaminants and antibiotic resistant bacteria and genes by crops

Simulation of the fate of co-labeled 13C3-15N-glyphosate in a water-sediment system and formation of biogenic non-extractable residues
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Toxicity of 2,3,5,6-tetrachlorophenol to willow trees (Salix viminalis)
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Untangling the biodegradation of hydrophobic chemicals in OECD and novel tests using a unified modelling approach
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2018 › Research › peer-review

Acute and semi-chronic toxicity of vanadium tested on copepods of the species Temora longicornis
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Diffusion and sorption of organic micropollutants in biofilms with varying thicknesses
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Ecological effects of scrubber water discharge on coastal plankton: Potential synergistic effects of contaminants reduce survival and feeding of the copepod Acartia tonsa
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Environmental risk assessment of poorly soluble substances: Improved tools for assessing biodegradation, (de)sorption, and modeling (project RABIT)
Research output: Contribution to conference › Poster – Annual report year: 2017 › Research › peer-review

Fate prediction and mass balances verification of pharmaceuticals compounds in Roldán-Balsicas WWTP (Murcia, Spain)
Research output: Contribution to conference › Poster – Annual report year: 2017 › Research › peer-review
Microbial growth yield as a new parameter in environmental chemistry and risk assessment
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Microbial growth yield estimates from thermodynamics and its importance for degradation of pesticides and formation of biogenic non-extractable residues
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Sorption and diffusion of micropollutants on/in biofilms: experimental observations and a model-based interpretation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Test of aerobic TCE degradation by willows (Salix viminalis) and willows inoculated with TCE-cometabolizing strains of Burkholderia cepacia
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Toxicity of 56 substances to trees
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Adressing the Chinese water challenges with hydroeconomic modelling
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review

Analyzing tree cores to detect petroleum hydrocarbon-contaminated groundwater at a former landfill site in the community of Happy Valley-Goose Bay, eastern Canadian subarctic
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

A suggested minimum data list for documenting experimental plant uptake studies
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review

Environmental risk assessment of poorly soluble substances: Improved tools for assessing biodegradation, (de)sorption, and modeling
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Environmental risk assessment of poorly soluble substances: Improved tools for assessing biodegradation, (de)sorption, and modeling (project RABIT)
Research output: Contribution to conference › Poster – Annual report year: 2017 › Research › peer-review
Experiments and inverse modeling to plant uptake and degradation of eight emerging organic contaminants
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review

How active ingredient localisation in plant tissues determines the targeted pest spectrum of different chemistries
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Impact of bacterial activity on turnover of insoluble hydrophobic substrates (phenanthrene and pyrene)—Model simulations for prediction of bioremediation success
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Inverse modeling of the biodegradation of emerging organic contaminants in the soil-plant system
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Microbial turnover of PAH: analysis of degradation and dissolution kinetics and simulation of remediation options
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review

Prediction of bacterial growth on xenobiotics
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review

Removal of Antibiotics in Biological Wastewater Treatment Systems—A Critical Assessment Using the Activated Sludge Modeling Framework for Xenobiotics (ASM-X)
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Simulation and prediction of biomass turnover and soil organic matter formation
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Soil and Plant Contamination – Modelling and Simulation of Processes
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Toxicity testing with the willow tree transpiration test - 15 years of results
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review
Addressing the Chinese water challenges with hydroeconomic modelling
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Aerobic TCE degradation by willows and three root colonizing strains of B. cepacia
Clausen, L. P. W., Gosewinkel Karlson, U., Broholm, M. M. & Trapp, S., 2015
Research output: Non-textual form › 2D/3D (physical products) – Annual report year: 2015 › Communication

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

Biocides from façade coatings in urban surface waters: Estimating the leaching of biocides from render by polyacrylate-water partitioning constants?
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Calibration of a Plant Uptake Model with Plant- and Site-Specific Data for Uptake of Chlorinated Organic Compounds into Radish
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Classification and modelling of non-extractable residue (NER) formation from pesticides in soil
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Comparison of Phytoscreening and Direct-Push- Based Site Investigation at a Rural Megasite Contaminated with Chlorinated Ethenes
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Does intake of trace elements through urban gardening in Copenhagen pose a risk to human health?
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Effective and reliable site investigation at large sites by the use of initial screening methods
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

Factors influencing sorption of ciprofloxacin onto activated sludge: Experimental assessment and modelling implications
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

From consumption to harvest: Environmental fate prediction of excreted ionizable trace organic chemicals
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review
Hydroeconomic optimization of reservoir management under downstream water quality constraints
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Modelling the Fate of Ionizable Trace Organic Chemicals from Consumption to Food Crops
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2016 › Research › peer-review

Optimizing basin-scale coupled water quantity and water quality management with stochastic dynamic programming
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2015 › Research › peer-review

Phytoscreening and - remediation of brownfield mega sites
Research output: Non-textual form › 2D/3D (physical products) – Annual report year: 2015 › Research › peer-review

Phytotoxicity of Sodium Fluoride and Uptake of Fluoride in Willow Trees
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Regeneration of brownfield mega-sites - a review of existing and emerging technologies and their application for a test-site
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Soil retention of hexavalent chromium released from construction and demolition waste in a road-base-application scenario
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

The Role of Dissipation Processes in Plants for Modeling Bioaccumulation
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Toxicity of NaF and uptake of F to willows
Clausen, L. P. W. & Trapp, S., 2015
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2015 › Research

Tree Coring as a Complement to Soil Gas Screening to Locate PCE and TCE Source Zones and Hot Spots
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Using pre-screening methods for an effective and reliable site characterization at megasites
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review
What Makes a Good Compound against Sucking Petts?
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2015 › Research › peer-review

Classification and modelling of non-extractable residue (NER) formation of xenobiotics in soil - a synthesis
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Comparative study of site investigation approaches and potential in situ remediation techniques: model-assisted evaluation of advantages and uncertainties
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

Comparison of tree coring and soil gas sampling for screening of contaminated sites
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Experimental Results and Integrated Modeling of Bacterial Growth on an Insoluble Hydrophobic Substrate (Phenanthrene)
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Feasibility of phyto remediation of common soil and groundwater pollutants
Research output: Book/Report › Report – Annual report year: 2015 › Commissioned › peer-review

How AI localisation in plant tissues determines the targeted pest spectrum of different chemistries
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Modeling Uptake of Selected Pharmaceuticals and Personal Care Products into Food Crops from Biosolids-Amended Soil
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Non-extractable residues (NER) from xenobiotics in soil : a new classification and relevance in the risk assessment
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Phytoremediation: A green solution
Clausen, L. P. W., Nielsen, M. A. & Trapp, S., 2014
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2014 › Research
Phytoscreening and phytoextraction of heavy metals at Danish polluted sites using willow and poplar trees
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Phytoscreening of BTEX and chlorinated solvents by tree coring
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Phytotoxicity of Sodium Fluoride and Uptake of Fluoride to Willow Trees
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research › peer-review

Polyacrylate–water partitioning of biocidal compounds: Enhancing the understanding of biocide partitioning between render and water
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Predicting human exposure to pharmaceuticals and personal care products from plant tissue grown in biosolids-amended soil
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Removal of pharmaceuticals in biological wastewater treatment systems: model generalisation and implications for environmental risk predictions
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Removal of pharmaceuticals in sewage treatment plants: A model generalisation to international data
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Simulation and measurement of bacterial growth on low soluble phenanthrene substrate
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Simulation of pharmaceuticals in the environment
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Tree Coring as an initial screening tool for typical pollutants in the subsurface
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review
Activity-based fate modelling for risk assessment of three ionizable organic compounds (triclosan, furosemide, ciprofloxacin)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2013 › Research › peer-review

Comparing the desorption and biodegradation of low concentrations of phenanthrene sorbed to activated carbon, biochar and compost
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Impact of activated carbon, biochar and compost on the desorption and mineralization of phenanthrene in soil
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Modelling sorption of ciprofloxacin using the ASM-X framework – Evaluation of factors influencing activated sludge treatment and implications on environmental risk assessment
Research output: Contribution to conference › Poster – Annual report year: 2013 › Research › peer-review

Modelling sorption of ciprofloxacin using the ASM-X framework – Evaluation of factors influencing activated sludge treatment and implications on environmental risk assessment
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2013 › Research › peer-review

Modelling the fate of ciprofloxacin in activated sludge systems - The relevance of the sorption process
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2013 › Research › peer-review

One-year measurements of chloroethenes in tree cores and groundwater at the SAP Mimoň Site, Northern Bohemia
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Simulation of the plant uptake of organophosphates and other emerging pollutants for greenhouse experiments and field conditions
Trapp, S. & Eggen, T., 2013, In : Environmental Science and Pollution Research. 20, 6, p. 4018-4029
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

A method to simultaneously determine reduction in PAH dissolved concentrations and bioaccessibility in carbon amended soils
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2012 › Research › peer-review

Combined modelling of plant uptake and leaching of heavy metals and organic compounds
**Combined modelling of PAH biodegradation, soil sorption and dissolution from organic phases**

**Coupled modelling of plant uptake, soil water balance and soil solute transport for estimating the fate of cadmium and lead in amended agro systems**

**Critical evaluation and further development of methods for testing ecotoxicity at multiple pH using Daphnia magna and Pseudokirchneriella subcapitata**

**Dynamic passive dosing for studying microbial PAH degradation: a comparison of experimental and model results**

**Effect of activated carbon, biochar and compost on the desorption and the biodegradation of low concentrations of phenanthrene sorbed to different soils**

**Phytoscreening with tree cores**

**Plantscreening - En blomstrende teknologi til jord- og grundvandsforurening**

**Pollutant plume delineation from tree core sampling using standardized ranks**
Simultaneous simulations of uptake in plants and leaching to groundwater of cadmium and lead for arable land amended with compost or farmyard manure.
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Uptake and fate of organic contaminants in plants of constructed wetlands
Research output: Contribution to conference › Poster – Annual report year: 2012 › Research › peer-review

Use-Dependent Inhibition of Synaptic Transmission by the Secretion of Intravesicularly Accumulated Antipsychotic Drugs
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Application of passive dosing to study the biotransformation and biodegradation of hydrophobic compounds
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2011 › Research › peer-review

Atmospheric fate of non volatile and ionizable compounds
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Can clouds enhance long-range transport of low volatile, ionizable and surface-active chemicals?
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2011 › Research › peer-review

Chlorobenzene removal efficiencies and removal processes in a pilot-scale constructed wetland treating contaminated groundwater
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Dynamic plant uptake model applied for drip irrigation of an insecticide to pepper fruit plants.
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Dynamic plant uptake modelling and mass flux estimation

Identification of Novel Functional Inhibitors of Acid Sphingomyelinase
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Influence of non-hydrophobic factors on the sorption of ionizable xenobiotics to solids
Integrated testing strategies (ITS) for bioaccumulation: hierarchical scheme of chemistry-driven modules and definition of applicability domains
Research output: Chapter in Book/Report/Conference proceeding » Conference abstract in proceedings – Annual report year: 2011 › Research › peer-review

Modeling experimental findings on sorption and biodegradation of PAHs
Research output: Chapter in Book/Report/Conference proceeding » Conference abstract in proceedings – Annual report year: 2011 › Research › peer-review

New concepts for dynamic plant uptake models
Research output: Contribution to journal » Journal article – Annual report year: 2011 › Research › peer-review

Optimal choice of pH for toxicity and bioaccumulation studies of ionizing organic chemicals
Research output: Contribution to journal » Journal article – Annual report year: 2011 › Research › peer-review

Test of Tree Core Sampling for Screening of Toxic Elements in Soils from a Norwegian Site
Research output: Contribution to journal » Journal article – Annual report year: 2011 › Research › peer-review

The effect of pH on the uptake and toxicity of the bivalent weak base chloroquine tested on Salix viminalis and Daphnia magna
Research output: Contribution to journal » Journal article – Annual report year: 2011 › Research › peer-review

The neutral species of the weak base trimethoprim is more toxic to willow trees (Salix viminalis) than the cation
Research output: Chapter in Book/Report/Conference proceeding » Conference abstract in proceedings – Annual report year: 2011 › Research › peer-review

Unified model for sorption, sequestration and degradation in soils and sediments
Trapp, S., Mayer, P. M. & Rein, A., 2011, SETAC Europe 21st Annual Meeting Abstract Book. p. 82-82
Research output: Chapter in Book/Report/Conference proceeding » Conference abstract in proceedings – Annual report year: 2011 › Research › peer-review

Uptake of Organic Contaminants from Soil into Vegetables and Fruits
Research output: Chapter in Book/Report/Conference proceeding » Book chapter – Annual report year: 2011 › Research

Activity-Based Concept for Transport and Partitioning of Ionizing Organics
Research output: Contribution to journal » Journal article – Annual report year: 2010 › Research › peer-review

Acute Toxicity of the Dissociating Veterinary Antibiotics Trimethoprim to Willow Trees at Varying pH
Mikes, O. & Trapp, S., 2010, In : Bulletin of Environmental Contamination and Toxicology. 85, p. 556-561
A Multimedia activity model for ionizable compounds - Validation study with 2,4-Dichlorophenoxyacetic acid, aniline and trimethoprim

An unexpected challenge: Ionizable compounds in the REACH chemical space

Comparison of prediction methods for the uptake of As, Cd and Pb in carrot and lettuce
Legind, C. N. & Trapp, S., 2010, In : S A R and Q S A R in Environmental Research. 21, 5-6, p. 513-525

Coupling of Groundwater Transport and Plant Uptake Models

Dynamic models to predict the uptake and fate of organic compounds in plants

Effect of pH and dissociation on the fate and exposure of ionizable chemicals

Lipophilic Cationic Drugs Increase the Permeability of Lysosomal Membranes in a Cell Culture System

New model concepts for dynamic plant uptake and mass flux estimates in the soil-plant-air system

Removal of 4-chlorobenzoic acid from spiked hydroponic solution by willow trees (Salix viminalis)

Standardized rank for tree core sampling on chlorinated ethenes contamination site
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research › peer-review

The pH dependent toxicity and bioaccumulation of chloroquine tested on S. viminalis (basket willow)
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research › peer-review

The value and adaptation of plant uptake models in international trade of produce treated with crop protection products
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research › peer-review

Tree Core Sampling for Screening of Toxic Elements in Soils: Poster J2
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research

Tree core sampling for the screening of heavy metal contamination in the subsurface
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research

Trees as indicators of subsurface pollution
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research › peer-review

Bioaccumulation of pharmaceuticals: Extended Abstract PH02A-4
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research › peer-review

Bioaccumulation of polar and ionizable compounds in plants
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2009 › Research › peer-review

Brug af trækerneprøver til screening for chiorerede opløsningsmidler
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research

Contaminant uptake into plants: consideration of dynamic processes: Abstract Org P57
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research
Finding activity feasible: a multimedia model for ionizable compounds. Test results for 2,4-D and aniline: Extended Abstract CH05A-3
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research › peer-review

Influence of soil pH on the sorption of ionizable chemicals: modeling advances
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Insignificant acute toxicity of TiO2 nanoparticles to willow trees
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Methods for estimating the bioconcentration factor of ionizable organic chemicals
Fu, W., Franco, A. & Trapp, S., 2009, In : Environmental Toxicology and Chemistry. 28, 7, p. 1372-1379
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Microbial degradation of PCB congeners related to their bioavailability
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research

Modeling the exposure of children and adults via diet to chemicals in the environment with crop-specific models
Legind, C. N. & Trapp, S., 2009, In : Environmental Pollution. 157, 3, p. 778-785
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Modelling the indirect human exposure to chemicals in soil and air with crop-specific models: Extended Abstract TE01-1
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research › peer-review

Monitoring of heavy metal subsurface contamination using trees
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research

Role of pH for the bioconcentration of ionizable organic compounds
Research output: Book/Report › Report – Annual report year: 2009 › Research

Uptake of polychlorinated biphenyls and organochlorine pesticides from soil and air into radishes (Raphanus sativus)
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Using tree core samples to monitor natural attenuation and plume distribution of pollutants in groundwater
Adapting environmental fate models to ioniable compounds: Abstract TUPC1-7

Coupled mother-child model for bioaccumulation of POPs in nursing infants

Direct measurement of VOC diffusivities in tree tissues: Impacts on tree-based phytoremediation and plant contamination

Distribution and bioconcentration of organochlorine pesticides (OCPs) and polychlorinated biphenyl's (PCBs) in the soil/plant/air system using radishes (Raphanus sativus): Abstract TU 134

Estimation of the soil-water partition coefficient normalized to organic carbon for ionizable organic chemicals

Multidisciplinary characterization of chloroethene subsurface contamination in sedimentary bedrock

Phytotoxicity of salt and plant salt uptake: Modeling ecohydrological feedback mechanisms

Plant uptake of NaCl in relation to enzyme kinetics and toxic effects

Quantitative modeling of selective lysosomal targeting for drug design
Mitochondriotropics: A review of their mode of action, and their applications for drug and DNA delivery to mammalian mitochondria
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Monitoring von Schadstoffen in Boden und Grundwasser mit Bäumen
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2007 › Research › peer-review

Pesticide residue legal standards for beverages: risk regulation and public perception

Quantitative Modeling of Selective Lysosomal Targeting by Passive Diffusion of Xenobiotic Compounds: Model Development and Simulations for Single Cells
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research

The role of plants and bacteria in phytoremediation: kinetics aspects
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Toxicity of tributyltin to willow trees
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Transport und Akkumulation von elektrisch geladenen Stoffen in lebenden Zellen
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2007 › Research › peer-review

Uptake, accumulation, phytotoxicity and removal of 2,4-dichlorophenol in willow trees
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Xenobiotics phytotoxicity: Willow tree transpiration test
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2007 › Research › peer-review

Accumulation of polar compounds in leaves and fruits - questioning the suitability of widely used TSCF - log Kow regressions: Abstract P771
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2006 › Research › peer-review
Phytotoxicity of cyanide to weeping willow trees
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Plant uptake of iron cyanide complexes
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2005 › Research

Quantifying the effect of medium composition on the diffusive mass transfer of hydrophobic organic chemicals through unstirred boundary layers
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

The effect of temperature on the rate of cyanide metabolism of two woody plants
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Uptake, metabolism, accumulation and toxicity of cyanide in willow trees
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research

Biodegradation of toxic compounds by plants or by associated bacteria
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research › peer-review

Degradation of organic pollutants by plant-colonising bacteria
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research

Determination of Michaelis-Menten kinetics for the removal of cyanide by plants
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research › peer-review

Effect of molecular properties on the selective accumulation of chemicals in tumor cells
Growth of plants in harbour sludge and effect on TBT degradation

JSS-Quiz: Six mental exercises to check your fitness in soil chemistry

Metabolism of cyanide by Chinese vegetation

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Plant uptake and transport models for neutral and ionic chemicals
Trapp, S., 2004, In : Environmental Science and Pollution Research. 11, 1, p. 33-39

Removal of cyanide by woody plants

System for the Reduction of Substances in Reject Water from Reed-Bed Sludge Mineralization Plants

The role of plants and bacteria in phytoremediation

Toxicity of tributyltin into willow trees

Uptake of tributyltin into willow trees

Applicazione di modelli matematici per la registrazione dei prodotti fitosanitari: assorbimento radicale e trasporto xilematico di elettroliti deboli

Can global biomass influence global chemical cycles?
Determination of Michaelis-Menten kinetics for the removal of cyanide by plants
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2003 › Research

Endophytic degrader bacteria for improving phytoremediation of organic xenobiotics: Final Report DRAFT
Research output: Book/Report › Report – Annual report year: 2003 › Research

Feasibility of cyanide elimination using plants. Technical note
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Fruit tree model for uptake of organic compounds from soil
Trapp, S., Rasmussen, D. & Samsoe-Petersen, L., 2003, In : S A R and Q S A R in Environmental Research. 14, 1, p. 17-26
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Fytoremediering: Tre illustrative eksempler
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research

Harmonized European Assessment for the Transfer of Chemicals from Soil into Food
Trapp, S., 2003, In : Journal of Soils and Sediments. 3, 1, p. 6
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Modellering af optagelse af organiske stoffer i grøntsager og frugt
Research output: Book/Report › Report – Annual report year: 2003 › Research

Persistence of methyl tertiary butyl ether (MTBE) against metabolism by Danish vegetation
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Phytoremediation of cyanide-polluted soils
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2003 › Research › peer-review

Phytoremediation of cyanide-polluted soils and waste waters
Research output: Contribution to conference › Poster – Annual report year: 2003 › Research

Phytoremediation of gasoline and diesel - what is the role of plants?
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2003 › Research
Remediation technology and risk assessment
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Results from a rapid test of acute toxicity to trees
Research output: Contribution to conference › Poster – Annual report year: 2003 › Research

Review of plant uptake models
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research

Risk assessment of cyanide contaminated gas work soil
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2003 › Research › peer-review

Assorbimento e tossicita' di tributilstagno su piante di salice
Research output: Contribution to conference › Poster – Annual report year: 2002 › Research

Die Bedeutung biologischer Verfahren zur Bodenreinigung wird zunehmend erkannt, Bakterien, Pilze aber auch Pflanzen verfügen über Mechanismen, toxische Stoffe zu entgiften, Noch ist die Anwendung biologischer In-Situ-Verfahren wenig verbreitad
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research

Dynamic root uptake model for neutral lipophilic organics
Trapp, S., 2002, In : Environmental Toxicology and Chemistry. 21, 1, p. 203-206
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Endegrade: Endophytic bacteria for improving phytoremediation
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Measurement of xylem translocation of weak electrolytes with the pressure chamber technique
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Phytotoxicity of polycyclic aromatic hydrocarbons to willow trees
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Pioppi contro il cianuro
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Communication

Rensning af olieforurenet jord ved hjælp af planter
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Communication
TBT uptake and transport in willow trees
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2002 › Research

Waste related emissions scenarios for risk assessment of chemicals. Report to Danish Environmental Protection Agency
Research output: Book/Report › Report – Annual report year: 2002 › Research

Aspects of phytoremediation of organic pollutants
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Aufnahme von Cyanid in Pflanzen: Risiko oder Chance für die Phytoremediation?
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Aufnahme von Cyanid in Pflanzen; Uptake of cyanides in plants - Risk or chance for phytoremediation?
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Bepflanzung einer Tankstelle mit Weiden
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Bioaccumulation of weak acids and bases
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2001 › Research › peer-review

Eliminating Cyanide, Reducing Heavy Metals, and Harvesting Gold from Mining Waste with Plants
Research output: Patent › Patent – Annual report year: 2001 › Research

Endegrade: Endophytic degrader bacteria for improving phytoremediation of organic xenobiotics
Research output: Contribution to conference › Poster – Annual report year: 2001 › Research

Experimente zum Verbleib von Cyanid nach Aufnahme in Pflanzen
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Fytoremediering af forurening med olie- og tøjsprodukt
Research output: Book/Report › Report – Annual report year: 2001 › Research

Phytorepressing på Søllerød Gasværk
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2001 › Research
Phytotoxicity of fresh and weathered diesel and gasoline to willow and poplar trees
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Sorption of lipophilic organic compounds to wood and implications for their environmental fate
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Validierung von Umweltexpositionsmodellen und in Modellen verwendeten Parametern
Research output: Book/Report › Book – Annual report year: 2001 › Research › peer-review

A phytotoxicity test using transpiration of willows
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Aspekte der Phytoremediation organischer Schadstoffe
Trapp, S., 2000, In : Umweltwissenschaften und Schadstoff-Forschung. 12, 5, p. 246-255
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Ein Fließgewässer im urbanen Umfeld. Analyse des ökologischen Zustandes des unteren Belmer Baches (Osnabrück, Niedersachsen) anhand des Makrozoobenthos
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Modelling uptake into roots and subsequent translocation of neutral and ionisable organic compounds
Trapp, S., 2000, In : Pest Management Science. 56, 9, p. 767-778
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

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Research output: Contribution to journal › Editorial – Annual report year: 2000 › Research › peer-review

Phytoremediering af olieprodukter på en nedlagt tankstation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2000 › Research

Proposals to overcome limitations in the EU chemical risk assessment scheme
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Soil Water Dynamics In Central Europe and Brazil
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2000 › Research

Georeferenced fate modelling of LAS in the itter stream
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research › peer-review
Limitations of the applicability of the European risk assessment scheme. (Abstract No. 2p/003)
Trapp, S., 1999, SETAC-Europe. Brussels
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research

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Trapp, S., Schwartz, S. & Berding, V., 1999
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review