Biodegradation of volatile chemicals in soil – Separating volatilization and degradation in improved test setup (OECD 307)
Research output: Research - peer-review › Journal article – Annual report year: 2019

Applying no-depletion equilibrium sampling and full-depletion bioaccessibility extraction to 35 historically polycyclic aromatic hydrocarbon contaminated soils
Research output: Research - peer-review › Journal article – Annual report year: 2018

Determining Biodegradation Kinetics of Hydrocarbons at Low Concentrations: Covering 5 and 9 Orders of Magnitude of Kow and Kaw
Birch, H., Høst Hammershøj, R. & Mayer, P. 20 Feb 2018 In : Environmental Science and Technology. 52, 4, p. 2143-2151
Research output: Research - peer-review › Journal article – Annual report year: 2018

A Chemical Activity Approach to Exposure and Risk Assessment of Chemicals
Research output: Research - peer-review › Journal article – Annual report year: 2018

Air Passive Dosing of Toluene Increases Accessibility of PAHs for Microbial Degradation
Research output: Research - peer-review › Poster – Annual report year: 2018

Assessing PCB pollution in the Baltic Sea - An equilibrium partitioning based study
Research output: Research - peer-review › Journal article – Annual report year: 2018

Automated Solid Phase Microextraction (SPME) for measuring freely dissolved concentrations of hydrophobic chemicals in soils, sediments and other solid matrices
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Biodegradation of volatile substances in soil - Challenges and optimization of test setups (OECD 307)
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018
Comparison of freely dissolved concentrations of PAHs in contaminated pot soils under saturated and unsaturated water conditions
Research output: Research - peer-review › Journal article – Annual report year: 2018

Developing a strategy to improve the environmental risk assessment of substances of unknown and variable composition (MCS/UVCB)
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Equilibrium sampling reveals increasing thermodynamic potential of polycyclic aromatic hydrocarbons during sewage sludge digestion
Research output: Research - peer-review › Journal article – Annual report year: 2018

Genotoxicity of three biofuel candidates compared to reference fuels
Research output: Research - peer-review › Journal article – Annual report year: 2018

Headspace passive dosing for dose-response testing of volatile hydrophobic organic chemicals
Research output: Research - peer-review › Poster – Annual report year: 2018

Headspace passive dosing of volatile hydrophobic chemicals – Aquatic toxicity testing exactly at the saturation level
Research output: Research - peer-review › Journal article – Annual report year: 2018

In situ activated carbon (AC) amendment to limit bio-uptake from PCB contaminated sediment – A mesocosm study with three organisms
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

In situ passive sampling methods to measure freely dissolved concentration of PAHs in contaminated soil: comparison with ex situ measurements and evaluation over one year
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Linking algal growth inhibition to chemical activity: Excess toxicity below 0.1% of saturation
Research output: Research - peer-review › Journal article – Annual report year: 2018

Meta-Analysis of Fish Early Life Stage Tests - Association of Toxic Ratios and Acute-To-Chronic Ratios with Modes of Action
Research output: Research - peer-review › Review – Annual report year: 2018

New approaches for determining solubility of organic chemicals
Research output: Research - peer-review › Poster – Annual report year: 2018
New approaches for determining solubility of volatile liquid chemicals
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Passive dosing for constant concentration and defined composition of hydrophobic organic mixtures
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Substance mapping: A first step towards developing a better assessment strategy for UVCBs
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Thermodynamic assessment of (semi-)volatile hydrophobic organic chemicals in WWTP sludge – combining Solid Phase Microextraction with non-target GC/MS
Research output: Research - peer-review › Journal article – Annual report year: 2018

Aquatic toxicity testing of liquid hydrophobic chemicals – Passive dosing exactly at the saturation limit
Research output: Research - peer-review › Journal article – Annual report year: 2017

Bioavailability and bioaccessibility of polycyclic aromatic hydrocarbons from (post-pyrolytically treated) biochars
Research output: Research - peer-review › Journal article – Annual report year: 2017

Biodegradation of hydrocarbon mixtures in surface waters at environmentally relevant levels - Effect of inoculum origin on kinetics and sequence of degradation
Research output: Research - peer-review › Journal article – Annual report year: 2017

Biodegradation testing of chemicals with high Henry's constants – separating mass and effective concentration reveals higher rate constants
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Comment on "Assessing Aromatic-Hydrocarbon Toxicity to Fish Early Life Stages Using Passive-Dosing Methods and Target-Lipid and Chemical-Activity Models"
Mayer, P. & Nørgaard Schmidt, S. 2017 In : Environmental Science and Technology. 51, 6, p. 3584–3585
Research output: Research - peer-review › Comment/debate – Annual report year: 2017
Cross validation of two partitioning-based sampling approaches in mesocosms containing PCB contaminated field sediment, biota, and activated carbon amendment
Research output: Research - peer-review › Journal article – Annual report year: 2017

Determining lower threshold concentrations for synergistic effects
Research output: Research - peer-review › Journal article – Annual report year: 2017

Enhanced Accessibility of Polycyclic Aromatic Hydrocarbons (PAHs) and Heterocyclic PAHs in Industrially Contaminated Soil after Passive Dosing of a Competitive Sorbate
Research output: Research - peer-review › Journal article – Annual report year: 2017

Enhanced Accessibility of Polycyclic Aromatic Hydrocarbons (PAHs) and Heterocyclic PAHs in Industrially Contaminated Soil after Passive Dosing of a Competitive Sorbate
Research output: Research - peer-review › Journal article – Annual report year: 2017

Microplastics as Vectors for Environmental Contaminants : Exploring Sorption, Desorption, and Transfer to Biota
Research output: Research - peer-review › Journal article – Annual report year: 2017

Partitioning of hydrophobic organic contaminants between polymer and lipids for two silicones and low density polyethylene
Research output: Research - peer-review › Journal article – Annual report year: 2017

Passive dosing of triclosan in multi-generation tests with copepods - Stable exposure concentrations and effects at the low µg L−1 range
Ribbenstedt, A., Mustajärvi, L., Breitholtz, M., Gorokhova, E., Mayer, P. & Sobek, A. 2017 In : Environmental Toxicology and Chemistry. 36, 5, p. 1254-1260
Research output: Research - peer-review › Journal article – Annual report year: 2016

A passive dosing method to determine fugacity capacities and partitioning properties of leaves
Research output: Research - peer-review › Journal article – Annual report year: 2016

Biodegradation of volatile hydrocarbons in five surface waters tested as composed mixtures in the µg/L range
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Biodegradation of volatile hydrocarbons in five surface waters tested as composed mixtures in the µg/L range
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Combining Equilibrium Sampling with Non-Target Analysis of Hydrophobic Complex Mixtures in a Complex Matrix
Sjøholm, K. K., Christensen, J. H. & Mayer, P. 2016 1 p.
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Cross-validation of equilibrium sampling and non-equilibrium passive sampling methods in PCB contaminated sediments
Equilibrium sampling in a semi in situ pot experiment to measure freely dissolved concentrations of hydrophobic organic compounds
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

How to Determine the Environmental Exposure of PAHs Originating from Biochar
Research output: Research - peer-review › Journal article – Annual report year: 2016

Including Bloconcentration Kinetics for the Prioritization and Interpretation of Regulatory Aquatic Toxicity Tests of Highly Hydrophobic Chemicals
Research output: Research - peer-review › Journal article – Annual report year: 2016

Limited recovery of soil microbial activity after transient exposure to gasoline vapors
Research output: Research - peer-review › Journal article – Annual report year: 2016

Linking algal growth inhibition to chemical activity: A tool for identifying excess toxicity
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Microscale In Vitro Assays for the Investigation of Neutral Red Retention and Ethoxyresorufin-O-Deethylase of Biofuels and Fossil Fuels
Research output: Research - peer-review › Journal article – Annual report year: 2016

Multiple coating thicknesses for sampling of organic pollutants – linear regressions confirm equilibrium even in challenging environmental media
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Passive Sampling in Regulatory Chemical Monitoring of Nonpolar Organic Compounds in the Aquatic Environment
Research output: Research - peer-review › Review – Annual report year: 2016

Polymers as reference partitioning phase: polymer calibration for an analytically operational approach to quantify multimedia phase partitioning
Research output: Research - peer-review › Journal article – Annual report year: 2016

Remediation of PCB contaminated sediments using activated carbon: Assessing efficiency and robustness using equilibrium sampling
Remediation of PCB contaminated sediments using activated carbon: Thermodynamic exposure assessment

Response to Comment on “Application of the Activity Framework for Assessing Aquatic Ecotoxicology Data for Organic Chemicals”
Thomas, P., Mackay, D., Mayer, P., Arnot, J. & Burgos, M. G. 2016 In : Environmental Science and Technology. 50, p. 4141-4142

Strategies for transferring mixtures of organic contaminants from aquatic environments into bioassays
Jahnke, A., Mayer, P., Schäfer, S., Witt, G., Haase, N. & Escher, B. I. 2016 In : Environmental Science and Technology. 50, 11, p. 5424–5431

Strategies for transferring mixtures of organic contaminants from multimedia environments into bioassays

Transferring in vivo exposure into in vitro assays using silicone to assess the endocrine activity of POPs accumulated in human breast implants

Utilizing the partitioning properties of silicone for the passive sampling of polychlorinated biphenyls (PCBs) in indoor air

Aged spiked soils cannot resemble desorption and bioaccessibility of native PAHs in historically contaminated soils

A high throughput passive dosing format for the Fish Embryo Acute Toxicity test
Vergauwen, L., Nørgaard Schmidt, S., Stinckens, E., Maho, W., Blust, R., Mayer, P., Covaci, A. & Knapen, D. 2015 In : Chemosphere. 139, p. 9-17

Application of the Activity Framework for Assessing Aquatic Ecotoxicology Data for Organic Chemicals

Bioaccessibility Extraction of Hydrophobic Pollutants: Benefits of Separating Leaching Agent and Acceptor Medium

Bioaccumulation in aquatic systems: methodological approaches, monitoring and assessment
Biocides from façade coatings in urban surface waters: Estimating the leaching of biocides from render by polyacrylate-water partitioning constants?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Comparison of passive and standard dosing of polycyclic aromatic hydrocarbons to the marine algae Phaeodactylum tricornutum
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Determining High-Quality Critical Body Residues for Multiple Species and Chemicals by Applying Improved Experimental Design and Data Interpretation Concepts
Research output: Research - peer-review › Journal article – Annual report year: 2015

Differences between Lipids Extracted from Five Species Are Not Sufficient To Explain Biomagnification of Nonpolar Organic Chemicals
Research output: Research - peer-review › Journal article – Annual report year: 2015

Differential immunomodulatory responses to nine polycyclic aromatic hydrocarbons applied by passive dosing
Research output: Research - peer-review › Journal article – Annual report year: 2015

Effect of narcotics on membrane-bound mitochondrial processes in fish
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Endocrine activity of persistent organic pollutants accumulated in human silicone implants — Dosing in vitro assays by partitioning from silicone
Research output: Research - peer-review › Journal article – Annual report year: 2015

Equilibrium passive sampling as a tool to study polycyclic aromatic hydrocarbons in Baltic Sea sediment pore-water systems
Research output: Research - peer-review › Journal article – Annual report year: 2015

Equilibrium sampling for a thermodynamic assessment of contaminated sediments
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Equilibrium sampling for a thermodynamic assessment of contaminated sediments
Research output: Research › 2D/3D (physical products) – Annual report year: 2015
Passive dosing to characterize the sorptive capacities of biota lipids from various trophic levels
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Relating Bioavailability Parameters to the Sorbent Characteristics of PAH Polluted Soils
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Sorptive capacities of lipids determined by passive dosing of non-polar organic chemicals
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

The Feasibility of Tree Coring as a Screening Tool for Selected Contaminants in the Subsurface
Research output: Research › Ph.D. thesis – Annual report year: 2015

Transfer and effects of 1,2,3,5,7-pentachloronaphthalene in an experimental food chain
Research output: Research - peer-review › Journal article – Annual report year: 2015

Using a reference partitioning phase to link exposure and effect assessment of hydrophobic organic chemicals: Novel equilibrium partitioning concepts and methods
Research output: Research › Ph.D. thesis – Annual report year: 2015

Using equilibrium passive dosing to maintain stable exposure concentrations of triclosan in a 6-week toxicity test
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Advancing passive sampling of contaminants in Environmental Science
Research output: Research - peer-review › Journal article – Annual report year: 2014

A novel passive dosing-based PICT detection method reveals no increased tolerance to benzene, toluene, ethylbenzene and xylene (BTEX) in soil bacterial communities exposed to gasoline vapours
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Chemical activity for integrated chemical assessment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Concerned about the T in PBT? Ask what fugacity and activity can do for you!
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014
Co-Transport of Polycyclic Aromatic Hydrocarbons by Motile Microorganisms Leads to Enhanced Mass Transfer under Diffusive Conditions.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Equilibrium Sampling to Determine the Thermodynamic Potential for Bioaccumulation of Persistent Organic Pollutants from Sediment
Research output: Research - peer-review › Journal article – Annual report year: 2014

Impact of soil amendments and the plant rhizosphere on PAH behaviour in soil
Research output: Research - peer-review › Journal article – Annual report year: 2014

Is equilibrium sampling applicable in routine sediment monitoring?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Juvenile swine evaluation of the ability of silicone rod in vitro digestors to predict PAH uptake across 20 different soils
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

PAH toxicity at aqueous solubility in the fish embryo test with Danio rerio using passive dosing
Research output: Research - peer-review › Journal article – Annual report year: 2014

Partitioning of hydrophobic organic chemicals between silicone polymers and LDPE
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Passive dosing as a tool to derive fugacity capacities of a variety of leaves for semi-volatile persistent organic contaminants
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Passive dosing for the zebrafish embryo test using silicone O-rings
Research output: Research - peer-review › Poster – Annual report year: 2015

Passive Equilibrium Sampling of Hydrophobic Organic Contaminants in Sediment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Passive Equilibrium Sampling of Hydrophobic Organic Contaminants in Sediment
Passive Equilibrium Sampling of Hydrophobic Organic Contaminants in Sediment

Passive sampling methods for contaminated sediments: Scientific rationale supporting use of freely dissolved concentrations

Passive sampling of polychlorinated biphenyls (PCB) in indoor air: towards a cost-effective screening tool

Physiological and molecular responses of springtails exposed to combined chemical and drought stress by passive dosing

Silicone-Based Equilibrium Sampling of Sediment to Assess the Thermodynamic Potential of Trace-Level Hydrophobic Organic Contaminants to Bioaccumulate

Silicone passive equilibrium samplers as ‘chemometers’ in eels and sediments of a Swedish lake.

Simultaneous Control of Phenanthrene and Drought by Dual Exposure System: The Degree of Synergistic Interactions in Springtails was Exposure Dependent
The effect of humic acids on biodegradation of polycyclic aromatic hydrocarbons depends on the exposure regime
Tejeda-Agredano, M-C., Mayer, P. & Ortega-Calvo, J-J. 2014 In : Environmental Pollution. 184, p. 435-442
Research output: Research - peer-review › Journal article – Annual report year: 2014

Baseline Toxic Mixtures of Non-Toxic Chemicals: “Solubility Addition” Increases Exposure for Solid Hydrophobic Chemicals
Research output: Research - peer-review › Journal article – Annual report year: 2013

Changes in Lumbriculus variegatus metabolites under hypoxic exposure to benzo(a)pyrene, chlorpyrifos and pentachlorophenol: Consequences on biotransformation
Research output: Research - peer-review › Journal article – Annual report year: 2013

Impact of soil amendments on the freely dissolved concentrations, chemical activities, and diffusive mass fluxes of PAHs in soil
Marchal, G., Smith, K. E. C., Frkova, Z., Mayer, P., de Jonge, L. W. & Gosewinkel, U. B. 2013
Research output: Research - peer-review › Poster – Annual report year: 2013

Is there sufficient ‘sink’ in current bioaccessibility determinations of organic pollutants in soils?
Collins, C. D., Mosquera-Vazquez, M., Gomez-Eyles, J. L., Mayer, P., Gouliarmou, V. & Blum, F. 2013 In : Environmental Pollution. 181, p. 128-132
Research output: Research - peer-review › Journal article – Annual report year: 2013

Limited exposure originating from desorption resistant PAHs in soot
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Loss of artemisinin produced by Artemisia annua L. to the soil environment
Research output: Research - peer-review › Journal article – Annual report year: 2013

Methods to assess bioavailability of hydrophobic organic contaminants: Principles, operations, and limitations
Cui, X., Mayer, P. & Gan, J. 2013 In : Environmental Pollution. 172, p. 223-234
Research output: Research - peer-review › Review – Annual report year: 2013

Passive dosing of polycyclic aromatic hydrocarbon (PAH) mixtures to terrestrial springtails: Linking mixture toxicity to chemical activities, equilibrium lipid concentrations, and toxic units
Research output: Research - peer-review › Journal article – Annual report year: 2013

Passive Equilibrium Sampler for in Situ Measurements of Freely Dissolved Concentrations of Hydrophobic Organic Chemicals in Sediments
Witt, G., Lang, S-C., Ullmann, D., Schaffrath, G., Schaffrath, G., Schulz-Bull, D. & Mayer, P. 2013 In : Environmental Science & Technology. 47, 14, p. 7830-7839
Research output: Research - peer-review › Journal article – Annual report year: 2013

Sorptive Bioaccessibility Extraction (SBE) of soils - combining mobilisation medium with absorption sink
Sorptive Physiologically Based Extraction of Contaminated Solid Matrices: Incorporating Silicone Rod As Absorption Sink for Hydrophobic Organic Contaminants
Research output: Research - peer-review › Journal article – Annual report year: 2013

The dosing determines mutagenicity of hydrophobic compounds in the Ames II assay with metabolic transformation: Passive dosing versus solvent spiking
Research output: Research - peer-review › Journal article – Annual report year: 2013

Uptake and toxicity of polycyclic aromatic hydrocarbons in terrestrial springtails-studying bioconcentration kinetics and linking toxicity to chemical activity
Research output: Research - peer-review › Journal article – Annual report year: 2013

A flow-through passive dosing system for continuously supplying aqueous solutions of hydrophobic chemicals to bioconcentration and aquatic toxicity tests
Research output: Research - peer-review › Journal article – Annual report year: 2013

Contaminant trap - Isolating and measuring the desorption resistant pool of soil pollutants
Research output: Research - peer-review › Book chapter – Annual report year: 2013

Dynamic Passive Dosing for Studying the Biotransformation of Hydrophobic Organic Chemicals: Microbial Degradation as an Example
Research output: Research - peer-review › Journal article – Annual report year: 2012

Equilibrium sampling of organic soil pollutants
Research output: Research - peer-review › Book chapter – Annual report year: 2013

Long-Term Effects of Legacy Copper Contamination on Microbial Activity and Soil Physical Properties
Research output: Research › Conference abstract for conference – Annual report year: 2012

Measuring binding and speciation of hydrophobic organic chemicals at controlled freely dissolved concentrations and without phase separation
Research output: Research - peer-review › Journal article – Annual report year: 2013

Partitioning of fluoranthene between free and bound forms in stormwater runoff and other urban discharges using passive dosing
Research output: Research - peer-review › Journal article – Annual report year: 2012
Pulmonary Surfactant Suppressed Phenanthrene Adsorption on Carbon Nanotubes through Solubilization and Competition As Examined by Passive Dosing Technique
Zhao, J., Wang, Z., Mashayekhi, H., Mayer, P., Chefetz, B. & Xing, B. 2012 In : Environmental Science & Technology. 46, 10, p. 5369-5377
Research output: Research - peer-review › Journal article – Annual report year: 2013

Recreating the seawater mixture composition of HOCs in toxicity tests with Artemia franciscana by passive dosing
Rojo-Nieto, E., Smith, K. E. C., Perales, J. A. & Mayer, P. 2012 In : Aquatic Toxicology. 120, p. 27-34
Research output: Research - peer-review › Journal article – Annual report year: 2013

Sensitive Equilibrium Sampling To Study Polychlorinated Biphenyl Disposition in Baltic Sea Sediment
Research output: Research - peer-review › Journal article – Annual report year: 2013

Soil microbial and physical properties and their relations along a steep copper gradient
Research output: Research - peer-review › Journal article – Annual report year: 2013

Sorptive Bioaccessibility Extraction (SBE) of Soils: Combining a Mobilization Medium with an Absorption Sink
Gouliarmou, V. & Mayer, P. 2012 In : Environmental Science & Technology. 46, 19, p. 10682-10689
Research output: Research - peer-review › Journal article – Annual report year: 2013

Speciation of PAHs in stormwater
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Time-Weighted Average SPME Analysis for in Planta Determination of cVOCs
Research output: Research - peer-review › Journal article – Annual report year: 2013

Towards a renewed research agenda in ecotoxicology
Research output: Research - peer-review › Journal article – Annual report year: 2013

Application of passive dosing to study the biotransformation and biodegradation of hydrophobic contaminants
Research output: Research › Paper – Annual report year: 2011

Calibrating passive sampling and passive dosing techniques to lipid based concentrations
Research output: Research › Paper – Annual report year: 2011

Unified model for sorption, sequestration and degradation in soils and sediments
Research output: Research › Paper – Annual report year: 2011

A Contaminant Trap as a Tool for Isolating and Measuring the Desorption Resistant Fraction of Soil Pollutants
More of EPA’s SPARC Online Calculator: The Need for High-Quality Predictions of Chemical Properties
Research output: Research - peer-review › Editorial – Annual report year: 2010

Passive Dosing for Producing Defined and Constant Exposure of Hydrophobic Organic Compounds during In Vitro Toxicity Tests
Smith, K. E. C., Oostingh, G. J. & Mayer, P. 2010 In : Chemical Research in Toxicology. 23, 1, p. 55-65
Research output: Research - peer-review › Journal article – Annual report year: 2010

Passive Dosing to Determine the Speciation of Hydrophobic Organic Chemicals in Aqueous Samples
Research output: Research - peer-review › Journal article – Annual report year: 2010

Response to Comment on “More of EPA’s SPARC Online Calculator - The Need for High Quality Predictions of Chemical Properties”
Research output: Research - peer-review › Letter – Annual report year: 2010

Combined chemical (fluoranthene) and drought effects on lumbricus rubellus demonstrate the applicability of the independent action model for multiple stressor assessment
Research output: Research - peer-review › Journal article – Annual report year: 2009

Development of a dynamic delivery method for in vitro bioassays
Research output: Research - peer-review › Journal article – Annual report year: 2009

Effect of vegetable oil addition on bioaccessibility and biodegradation of polycyclic aromatic hydrocarbons in historically contaminated soils
Scherr, K. E., Hasinger, M., Mayer, P. & Loibner, A. P. 2009 In : Journal of Chemical Technology and Biotechnology. 84, 6 , p. 827-835
Research output: Research - peer-review › Conference article – Annual report year: 2009

Equilibrium sampling through membranes (ESTM) of acidic organic pollutants using hollow fibre modules in continuous steady-state mode
Research output: Research - peer-review › Journal article – Annual report year: 2009

In Situ Silicone Tube Microextraction: A New Method for Undisturbed Sampling of Root-exuded Thiophenes from Marigold (Tagetes erecta L.) in Soil
Research output: Research - peer-review › Journal article – Annual report year: 2009

Matrix solid-phase microextraction for measuring freely dissolved concentrations and chemical activities of PAHs in sediment cores from the western Baltic Sea
Research output: Research - peer-review › Journal article – Annual report year: 2009
Measuring Pyrethroids in Sediment Pore Water using Matrix-solid Phase Microextraction
Hunter, W., Yang, Y., Reichenberg, F., Mayer, P. & Gan, J. 2009 In : Environmental Toxicology and Chemistry. 28, 1, p. 36-43
Research output: Research - peer-review › Journal article – Annual report year: 2009

Possibilities and limitations of equilibrium sampling using polydimethylsiloxane in fish tissue
Research output: Research - peer-review › Journal article – Annual report year: 2009

Silicone Membrane Equilibrator: Measuring Chemical Activity of Nonpolar Chemicals with Poly(dimethylsiloxane) Microtubes Immersed Directly in Tissue and Lipids
Mayer, P., Toräng, L., Glæsner, N. & Jönsson, J. Å. 2009 In : Analytical Chemistry. 81, 4, p. 1536-1542
Research output: Research - peer-review › Journal article – Annual report year: 2009

Sundhedsmæssig vurdering af PCB-holdige bygningsfuger
Research output: Research - peer-review › Report – Annual report year: 2009

Determining the chemical activity of hydrophobic organic compounds in soil using polymer coated vials
Research output: Research - peer-review › Journal article – Annual report year: 2008

Device and Method for Isolation, Concentration and/or Identification of Compounds
Research output: Research › Patent – Annual report year: 2008

Equilibrium sampling: Partitioning of organochlorine compounds from lipids into polydimethylsiloxane
Jahnke, A., McLachlan, M. S. & Mayer, P. 2008 In : Chemosphere. 73, 10, p. 1575-1581
Research output: Research - peer-review › Journal article – Annual report year: 2008

Field Testing of Equilibrium Passive Samplers to Determine Freely Dissolved Native Polycyclic Aromatic Hydrocarbon Concentrations
Research output: Research - peer-review › Journal article – Annual report year: 2008

Immersed solid phase microextraction to measure chemical activity of lipophilic organic contaminants in fatty tissue samples
Research output: Research - peer-review › Journal article – Annual report year: 2008

Impacts of some Environmentally Relevant Parameters on the Sorption of Polycyclic Aromatic Hydrocarbons to Aqueous Suspensions of Fullerene
Research output: Research - peer-review › Journal article – Annual report year: 2008

Isomer-Specific Biodegradation of Methylphenanthrenes by Soil Bacteria
Research output: Research - peer-review › Journal article – Annual report year: 2008

Multivariate Analysis of Selected Metal Ion Transport through a Hollow-Fiber Supported Liquid Membrane Device used for Passive Sampling Monitoring
Passive Dosing of Soil Invertebrates with Polycyclic Aromatic Hydrocarbons: Limited Chemical Activity Explains Toxicity Cutoff

Using tree core samples to monitor natural attenuation and plume distribution

Degradation of PCB congeners by bacterial strains

Determining Chemical Activity of (Semi)volatile Compounds by Headspace Solid-Phase Microextraction

Diffusion of PAH in potato and carrot slices and application for a potato model

Dynamic Permeation Method To Determine Partition Coefficients of Highly Hydrophobic Chemicals between Poly(dimethylsiloxane) and Water

Effects of dilution on the exposure in sediment toxicity tests: Buffering of freely dissolved concentrations and changes in mixture composition

Enhanced diffusion of polycyclic aromatic hydrocarbons in artificial and natural aqueous solutions

Equilibrium Sampling Through Membranes (ESTM) in hollow fibers combined with direct absorbance measurements

Jämviktsprovtagning

Ligevægtsopsamling gennem membraner
Passive extraction and clean-up of phenoxy acid herbicides in samples from a groundwater plume using hollow fiber supported liquid membranes
Research output: Research - peer-review › Journal article – Annual report year: 2007

Using solid phase microextraction to measure freely dissolved concentrations and chemical activities of PAHs in sediment cores of the western Baltic Sea
Research output: Research › Poster – Annual report year: 2007

Can Highly Hydrophobic Organic Substances Cause Aquatic Baseline Toxicity and can they Contribute to Mixture Toxicity?
Mayer, P. & Reichenberg, F. 2006 In : Environmental Toxicology and Chemistry. 25, 10, p. 2639-2644
Research output: Research › Journal article – Annual report year: 2006

Continuous sampling of polar organic pollutants using commercially available hollow fibre cartridges - ESTM technique
Research output: Research › Poster – Annual report year: 2006

Equilibrium Sampling of Freely Dissolved Alkylphenols into a Thin Film of 1-Octanol Supported on a Hollow Fiber Membrane
Research output: Research - peer-review › Journal article – Annual report year: 2006

Equilibrium Sampling Through Membranes (ESTM) in hollow fibers combined with direct absorbance measurements
Toräng, L., Jonsson, J. & Mayer, P. 2006
Research output: Research › Poster – Annual report year: 2006

Measurement of accessibility and chemical activity of PAHs in polluted soils
Reichenberg, F., Karlson, U. & Mayer, P. 2006
Research output: Research › Poster – Annual report year: 2006

Measuring the chemical activity of hydrophobic compounds by equilibrium sampling into silicone hollow fibers
Toräng, L., Reichenberg, F., Glæsner, N. & Mayer, P. 2006
Research output: Research › Poster – Annual report year: 2006

Tjærestoffer. Danmarks Miljøundersøgelser
Research output: Research › Report – Annual report year: 2006

Two Complementary Sides of Bioavailability: Accessibility and Chemical Activity of Organic Contaminants in Sediments and Soils
Reichenberg, F. & Mayer, P. 2006 In : Environmental Toxicology and Chemistry. 25, 5, p. 1239-1245
Research output: Research › Journal article – Annual report year: 2006

Effective chemical activity (EA50) used as a measure of exposure for baseline toxicity
Reichenberg, F. & Mayer, P. 2005
Research output: Research › Poster – Annual report year: 2005

Equilibrium Sampling through Membranes of Freely Dissolved Chlorophenols in Water Samples with Hollow Fiber Supported Liquid Membrane
Liu, J., Jönsson, J. Å. & Mayer, P. 2005 In : Analytical Chemistry. 77, 15, p. 4800-4809
Research output: Research - peer-review › Journal article – Annual report year: 2005
Measured Pore-Water Concentrations Make Equilibrium Partitioning Work: A Data Analysis
Research output: Research - peer-review › Journal article – Annual report year: 2003

SPME-Measurements of Freely Dissolved Concentration of Hydrophobic Organic Compounds in the Microtox Solid Phase Test
Research output: Research › Poster – Annual report year: 2002

Algal growth inhibition test in filled, closed bottles for volatile and sorptive materials
Research output: Research › Book chapter – Annual report year: 1998

Accumulation and toxicity of lipophilic organic chemicals in phytoplankton algae and Daphnia, and partitioning of such compounds between water, particulates, and third phases of colloid and dissolved organic material
Research output: Research › Book chapter – Annual report year: 1998

Influence of growth conditions on the results obtained in algal toxicity testing
Research output: Research - peer-review › Journal article – Annual report year: 1998

Toxic cell concentrations of three polychlorinated biphenyl congeners in the green alga Selenastrum Capricornutum
Research output: Research › Journal article – Annual report year: 1998

A simple in vitro fluorescence method for biomass measurements in algal growth inhibition tests
Research output: Research - peer-review › Journal article – Annual report year: 1997

Research output: Research - peer-review › Book chapter – Annual report year: 1997

Growth inhibition of green alga S. capricornutum related to critical body burdens of PAHs and PCBs. (Abstract No. PWA124)
Research output: Research - peer-review › Book chapter – Annual report year: 1997

Influence of growth conditions on the results obtained in algal toxicity tests. (Abstract No. PHA105)
Research output: Research - peer-review › Book chapter – Annual report year: 1997

Projects:
**Mixture Effects in Biodegradation Testing of Aromatic and Aliphatic Hydrocarbons**
Hammershøj, R. H., Mayer, P., Andersen, H. R., Birch, H. & Sjøholm, K. K.
Samfinansieret - Andet
15/06/2016 → 13/12/2019
Project: PhD

**Linking the exposure and effects of organic chemical mixtures to their equilibrium partitioning concentrations in lipids**
Trac, N. L., Mayer, P. & Nørgaard Schmidt, S.
Institut stipendie (DTU)
01/09/2015 → 13/09/2019
Project: PhD

**The effect of sorption and dosing on the degradation of poorly water soluble substances in different environmental matrices using standard OECD guidel ines**
Shrestha, P., Mayer, P., Birch, H. & Hennecke, D.
Stipendie fra udlændet
01/01/2016 → 31/03/2019
Project: PhD

**Micropollutants removal for hospital wastewater**
Tang, K., Andersen, H. R., Mayer, P., McArdell, C. S., Stasinakis, A., Bester, K., McArdell, C. S. & Stasinakis, A.
Privatist
01/01/2015 → 18/04/2018
Project: PhD

**Aquatic toxicity testing for hazard identification of engineered nanoparticles**
Sørensen, S. N., Baun, A., Hansen, S. F., Lützhøft, H. H., Mayer, P., Kühnel, D. & Palmqvist, A.
Institut stipendie (DTU) Samf.
01/04/2012 → 30/06/2016
Project: PhD

**Investigatin the feasibility of phytoremediation and phytoscreening**
Nielsen, M. A., Trapp, S., Broholm, M. M., Mayer, P., Kjeldsen, P., Burken, J. G. & Larsen, M.
Institut stipendie (DTU) Samf.
01/06/2011 → 01/07/2015
Project: PhD

**Improving the exposure basis of toxicological research on persistent organic pollutants and their mixtures**
Gilbert, D., Mayer, P., Vinggaard, A. M., Trapp, S., Scheringer, M. & Wania, F.
Ansat eksternt
15/01/2012 → 15/12/2015
Project: PhD

**Bioaccumulation and toxicity of lipophilic chemical in algae, crustaceans and fish**
Nyholm, N., Halling-Sørensen, B., Kusk, K. O., Mayer, P., Qualmann, S., Kieft, L., Mayer, P. & Simjs, D. J.
Ukendt
01/08/1994 → 01/01/1998
Project: Research

**Activities:**

**Invited Lecture: The Partitioning Based Laboratory**
Mayer, P. (Invited speaker)
28 Feb 2018
Activity: Talks and presentations › Conference presentations
7th SETAC World Congress
Mayer, P. (Participant)
6 Nov 2016 → 10 Nov 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

7th SETAC World Congress
Mayer, P. (Participant)
6 Nov 2016 → 10 Nov 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

7th SETAC World Congress
Mayer, P. (Participant)
6 Nov 2016 → 10 Nov 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

7th SETAC World Congress
Mayer, P. (Invited speaker)
6 Nov 2016 → 10 Nov 2016
Activity: Talks and presentations › Conference presentations

Developing a strategy to improve the environmental risk assessment of difficult to test multi-component substances
Mayer, P. (Invited speaker)
2 Nov 2016 → 4 Nov 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

International Society of Exposure Science
Mayer, P. (Invited speaker)
Activity: Talks and presentations › Conference presentations

International Society of Exposure Science 26th Annual Meeting - ISES2016
Mayer, P. (Invited speaker)
Activity: Talks and presentations › Conference presentations

Congressi Stefano Franscini
Mayer, P. (Participant)
29 May 2016 → 3 Jun 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

SETAC Europe 26th Annual Meeting
Mayer, P. (Participant)
22 May 2016 → 26 May 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

SETAC Europe 26th Annual Meeting
Mayer, P. (Participant)
22 May 2016 → 26 May 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
SETAC
Mayer, P. (Participant)
1 Nov 2015 → 5 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

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Mayer, P. (Participant)
1 Nov 2015 → 5 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

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1 Nov 2015 → 5 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

SETAC
Mayer, P. (Participant)
1 Nov 2015 → 5 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Foundational aspects of the concept of chemical activity
Mayer, P. (Lecturer)
29 Oct 2015 → 30 Oct 2015
Activity: Talks and presentations › Conference presentations

Equilibrium Sampling of Hydrophobic Organic Contaminants in Sediment
Mayer, P. (Lecturer)
16 Aug 2015 → 20 Aug 2015
Activity: Talks and presentations › Conference presentations

ICCA-LRI and JRC Workshop 2014
Mayer, P. (Invited speaker)
17 Jun 2014
Activity: Talks and presentations › Conference presentations