Research outputs:

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

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

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 of volatile hydrophobic chemicals – Aquatic toxicity testing exactly at the saturation level
Research output: Research - peer-review › Journal article – 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

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 › Journal article – Annual report year: 2017

Biodegradation testing of hydrophobic chemicals in mixtures at low concentrations – covering the chemical space of petroleum hydrocarbons
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 Modes"
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

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
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

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 Bioconcentration 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
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Remediation of PCB contaminated sediments using activated carbon: Thermodynamic exposure assessment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017
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
Research output: Research - peer-review › Journal article – Annual report year: 2016

Strategies for Transferring Mixtures of Organic Contaminants from Aquatic Environments into Bioassays
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Research output: Research - peer-review › Journal article – Annual report year: 2016

Strategies for transferring mixtures of organic contaminants from multimedia environments into bioassays
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Transferring in vivo exposure into in vitro assays using silicone to assess the endocrine activity of POPs accumulated in human breast implants
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Utilizing the partitioning properties of silicone for the passive sampling of polychlorinated biphenyls (PCBs) in indoor air
Research output: Research - peer-review › Journal article – Annual report year: 2016

Aged spiked soils cannot resemble desorption and bioaccessibility of native PAHs in historically contaminated soils
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

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
Research output: Research - peer-review › Journal article – Annual report year: 2015

Application of the Activity Framework for Assessing Aquatic Ecotoxicology Data for Organic Chemicals
Research output: Research - peer-review › Journal article – Annual report year: 2015

Bioaccessibility Extraction of Hydrophobic Pollutants: Benefits of Separating Leaching Agent and Acceptor Medium
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Bioaccumulation in aquatic systems: methodological approaches, monitoring and assessment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Biocides from façade coatings in urban surface waters: Estimating the leaching of biocides from render by polyacrylate-water partitioning constants?
Comparison of passive and standard dosing of polycyclic aromatic hydrocarbons to the marine algae Phaeodactylum tricornutum

Determining High-Quality Critical Body Residues for Multiple Species and Chemicals by Applying Improved Experimental Design and Data Interpretation Concepts

Differences between Lipids Extracted from Five Species Are Not Sufficient To Explain Biomagnification of Nonpolar Organic Chemicals

Differential immunomodulatory responses to nine polycyclic aromatic hydrocarbons applied by passive dosing

Effect of narcotics on membrane-bound mitochondrial processes in fish

Endocrine activity of persistent organic pollutants accumulated in human silicone implants — Dosing in vitro assays by partitioning from silicone

Equilibrium passive sampling as a tool to study polycyclic aromatic hydrocarbons in Baltic Sea sediment pore-water systems

Equilibrium passive sampling for a thermodynamic assessment of contaminated sediments

Equilibrium sampling of hydrophobic organic chemicals in sediments: challenges and new approaches

Equilibrium sampling of polychlorinated biphenyls in River Elbe sediments – Linking bioaccumulation in fish to sediment contamination
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Research output: Research - peer-review › Journal article – Annual report year: 2015

Foundational aspects of the concept of chemical activity
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

How do non-specific mechanisms of toxicity fit into the AOP framework? The example of narcosis
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Linking algal growth inhibition to chemical activity
Schmidt, S. N. & Mayer, P. 2015 1 p.
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Linking algal growth inhibition to chemical activity - Baseline toxicity required 1% of saturation
Research output: Research - peer-review › Journal article – Annual report year: 2015

On the challenge to assess the exposure of organic contaminants in matrices with high partition coefficients
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Passive dosing of pyrethroid insecticides to Daphnia magna: Expressing excess toxicity by chemical activity
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Passive Dosing of Pyrethroid Insecticides to Daphnia magna: Expressing Excess Toxicity by Chemical Activity
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Relating Bioavailability Parameters to the Sorbent Characteristics of PAH Polluted Soils
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!
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Co-Transp of Polycyclic Aromatic Hydrocarbons by Motile Microorganisms Leads to Enhanced Mass Transfer under Diffusive Conditions.
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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

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

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

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

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Passive Equilibrium Sampling of Hydrophobic Organic Contaminants in Sediment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014
Passive sampling methods for contaminated sediments: Scientific rationale supporting use of freely dissolved concentrations
Research output: Research - peer-review › Journal article – Annual report year: 2014

Passive sampling of polychlorinated biphenyls (PCB) in indoor air: towards a cost-effective screening tool
Research output: Research - peer-review › Report – Annual report year: 2015

Physiological and molecular responses of springtails exposed to combined chemical and drought stress by passive dosing
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Physiological and molecular responses of springtails exposed to phenanthrene and drought
Holmstrup, M., Slotsbo, S., Schmidt, S. N., Mayer, P., Damgaard, C. & Sørensen, J. G. 2014 In : Environmental Pollution. 184, p. 370-376
Research output: Research - peer-review › Journal article – Annual report year: 2014

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

Silicone -Based Equilibrium Sampling of Sediment to Assess the Thermodynamic Potential of Trace-Level Hydrophobic Organic Contaminants to Bioaccumulate
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Silicone-Based Equilibrium Sampling of Sediment to Assess the Thermodynamic Potential of Trace-Level Hydrophobic Organic Contaminants to Bioaccumulate
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Research output: Research - peer-review › Journal article – Annual report year: 2014

Simultaneous Control of Phenanthrene and Drought by Dual Exposure System: The Degree of Synergistic Interactions in Springtails was Exposure Dependent
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The effect of humic acids on biodegradation of polycyclic aromatic hydrocarbons depends on the exposure regime
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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
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
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Research output: Research - peer-review › Journal article – Annual report year: 2013

Is there sufficient ‘sink’ in current bioaccessibility determinations of organic pollutants in soils?
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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
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Research output: Research - peer-review › Journal article – Annual report year: 2013

Sorptive Bioaccessibility Extraction (SBE) of soils - combining mobilisation medium with absorption sink
Research output: Research - peer-review › Poster – Annual report year: 2013

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
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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
Aquatic toxicity of PAHs and PAH mixtures at saturation to benthic amphipods: Linking toxic effects to chemical activity
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Research output: Research - peer-review › Journal article – Annual report year: 2011

Crucial Role of Mechanisms and Modes of Toxic Action for Understanding Tissue Residue Toxicity and Internal Effect Concentrations of Organic Chemicals
Research output: Research - peer-review › Literature review – Annual report year: 2011

Equilibrium sampling of environmental pollutants in fish: Comparison with lipid-normalized concentrations and homogenization effects on chemical activity
Research output: Research - peer-review › Journal article – Annual report year: 2011

Equilibrium Sampling of Persistent and Bioaccumulative Compounds in Soil and Sediment: Comparison of Two Approaches To Determine Equilibrium Partitioning Concentrations in Lipids
Research output: Research - peer-review › Journal article – Annual report year: 2011

Occurrence of organochlorine pesticides in indoor dust
Research output: Research - peer-review › Journal article – Annual report year: 2011

Sorption of phenanthrene in agricultural soils
Research output: Research - peer-review › Annual report – Annual report year: 2011

Bioavailability of organochlorine compounds in aqueous suspensions of fullerene: Evaluated with medaka (Oryzias latipes) and negligible depletion solid-phase microextraction
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Controlling and maintaining exposure of hydrophobic organic compounds in aquatic toxicity tests by passive dosing
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Research output: Research - peer-review › Journal article – Annual report year: 2010

Do complex matrices modify the sorptive properties of polydimethylsiloxane (PDMS) for non-polar organic chemicals?
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Research output: Research - peer-review › Journal article – Annual report year: 2010

Low accessibility and chemical activity of PAHs restrict bioremediation and risk of exposure in a manufactured gas plant soil
Research output: Research - peer-review › Journal article – Annual report year: 2010

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

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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
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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

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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
Research output: Research - peer-review › Journal article – Annual report year: 2008

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
Research output: Research - peer-review › Journal article – Annual report year: 2008

Degradation of PCB congeners by bacterial strains
Research output: Research - peer-review › Journal article – Annual report year: 2007

Determining Chemical Activity of (Semi)volatile Compounds by Headspace Solid-Phase Microextraction
Research output: Research - peer-review › Journal article – Annual report year: 2007

Diffusion of PAH in potato and carrot slices and application for a potato model
Research output: Research - peer-review › Journal article – Annual report year: 2007

Dynamic Permeation Method To Determine Partition Coefficients of Highly Hydrophobic Chemicals between Poly(dimethylsiloxane) and Water
Research output: Research - peer-review › Journal article – Annual report year: 2007

Effects of dilution on the exposure in sediment toxicity tests: Buffering of freely dissolved concentrations and changes in mixture composition
Research output: Research - peer-review › Journal article – Annual report year: 2007

Enhanced diffusion of polycyclic aromatic hydrocarbons in artificial and natural aqueous solutions
Research output: Research - peer-review › Journal article – Annual report year: 2007

Equilibrium Sampling Through Membranes (ESTM) in hollow fibers combined with direct absorbance measurements
Research output: Research › Poster – Annual report year: 2007

Jämviktsprovtagning
Research output: Research › peer-review › Journal article – Annual report year: 2007

Ligevægtsopsamling gennem membraner
Research output: Research › peer-review › Journal article – Annual report year: 2007

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 - peer-review › 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 Thruough Membraners (ESTM) in hollow fibers combined with direct absorbance measurements
Torång, L., Jonsson, J. & Mayer, P. 2006
Research output: Research › Poster – Annual report year: 2006

Measurement of accessibility and chemical activity of PAHs in polluted soil
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
Torång, 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 - peer-review › Journal article – Annual report year: 2006

Effective chemical activity (EAS50) 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

Equilibrium Sampling through Membranes of Freely Dissolved Copper Concentrations with Selective Hollow Fiber Membranes and the Spectrophotometric Detection of a Metal Stripping Agent
Research output: Research - peer-review › Journal article – Annual report year: 2005
Measuring the internal exposure of organic pollutants with equilibrium sampling devices
Reichenberg, F., McLachlan, M. & Mayer, P. 2005
Research output: Research › Poster – Annual report year: 2005

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

Sediment Dilution Method to Determine Sorption Coefficients of Hydrophobic Organic Chemicals
Research output: Research - peer-review › Journal article – Annual report year: 2005

A micro-scale technique to determine diffusive mass transfer of hydrophobic organics through diffusive boundary layers (DBLs)
Mayer, P., Christensen, P. S., Johnsen, A. R. & Karlson, U. 2004
Research output: Research › Poster – Annual report year: 2004

A new technique to determine the diffusive mass transfer of hydrophobic organic substances through diffusive boundary layers (DBLs)
Mayer, P., Christensen, P. S., Johnsen, A. R. & Karlson, U. 2004
Research output: Research › Poster – Annual report year: 2004

Distinguishing Between The Availability And The Activity Of Organic Chemicals
Reichenberg, F. & Mayer, P. 2004
Research output: Research › Poster – Annual report year: 2004

Equilibrium Sampling through Membrane: Hollow Fiber Supported Liquid Membrane for Static Sampling of Freely Dissolved Chlorophenols in Water
Liu, J-F., Jönsson, J. Å., Larsson, N., Mayer, P. & Toräng, L. 2004
Research output: Research › Poster – Annual report year: 2004

Equilibrium Sampling through Membranes: Oprensning og opkoncentrering af polære stoffer med hollow fibers
Toräng, L., Mayer, P., Jönsson, J. Å. & Liu, J-F. 2004
Research output: Research › Poster – Annual report year: 2004

Towards continuous exposure measurements of polar organic priority pollutants
Research output: Research › Poster – Annual report year: 2004

Equilibrium Sampling Devices
Research output: Research - peer-review › Journal article – Annual report year: 2003

Marin recipientundersøgelse ved Thule Air Base 2002
Research output: Research - peer-review › Report – Annual report year: 2003

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 - peer-review › Journal article – Annual report year: 2000

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 - peer-review › 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.
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 guidelines
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., 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

Investigating 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., Kløft, L., Mayer, P. & Simjs, D. J.
Ukendt
01/08/1994 → 01/01/1998
Project: Research

Activities:

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.

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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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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
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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