Peter Steen Mikkelsen - DTU Orbit (07/02/2019)

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Urban Water Systems
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Research outputs:

Greenhouse gas emissions from integrated urban drainage systems: Where do we stand?
Research output: Research - peer-review › Journal article – Annual report year: 2018

A Typology for Climate Change Adaptation: Event Magnitudes, Spatial Scale and Goals
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Coordinating rule-based and system-wide model predictive control strategies to reduce storage expansion of combined urban drainage systems: The case study of Lundtofte, Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2018

Definitions of event magnitudes, spatial scales, and goals for climate change adaptation and their importance for innovation and implementation
Research output: Research - peer-review › Journal article – Annual report year: 2018

Distinguishing high and low flow domains in urban drainage systems 2 days ahead using numerical weather prediction ensembles
Research output: Research - peer-review › Journal article – Annual report year: 2018

Early stage planning tools for stormwater quantity and quality management in Denmark and China
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Ensemble forecasts of urban runoff from a deterministic Numerical Weather Prediction model by use of spatial neighborhood sampling
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Model predictive control of urban drainage systems: A review and perspective towards smart real-time water management
Research output: Research - peer-review › Journal article – Annual report year: 2018

Operationelle udlederkrav for regnbetingede overløb fra fællessystemer til vandløb
Research output: Commissioned › Report – Annual report year: 2018

Performance of High-Resolution Numerical Weather Predictions with a Rapid Updating Cycle for Urban Runoff Forecasting
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Robust model for estimating pump characteristics and sewer flows from pumping station data
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018
Smart Power, Cost-Effective MPC of Stochastic Wastewater Treatment Process
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Technical Note on the Dynamic Changes in Kalman Gain when Updating Hydrodynamic Urban Drainage Models
Research output: Research - peer-review › Journal article – Annual report year: 2018

Towards Model Predictive Control: Online Predictions of Ammonium and Nitrate Removal by using a Stochastic ASM
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Urban tunnel systems for conveyance and storage of storm- and wastewater: features, classification, and modelling
Research output: Research - peer-review › Poster – Annual report year: 2018

Using the Ensemble Kalman Filter to update a fast surrogate model for flow forecasting
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Water solutions for smart cities – Smart water systems make cities more liveable, resilient and sustainable
Research output: Research - peer-review › Report chapter – Annual report year: 2018

WISE innovation in urban water systems of Copenhagen
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Advancing from underground to above-ground model predictive control in urban drainage
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A fast surrogate model tailor-made for real time control
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A gain-loss framework based on ensemble flow forecasts to switch the urban drainage-wastewater system management towards energy optimization during dry periods
Research output: Research - peer-review › Journal article – Annual report year: 2017

A Stochastic Method to Manage Delay and Missing Values for In-Situ Sensors in an Alternating Activated Sludge Process
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Challenges to application of the three points approach (3PA) - ambiguity in definition of event magnitude, spatial scales and goals
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Characterizing Climate Change Adaptation in Copenhagen
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Comparison of radar and numerical weather model rainfall forecasts in the perspective of urban flood prediction
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017
Controlling sewer systems – a critical review based on systems in three EU cities
Research output: Research - peer-review › Journal article – Annual report year: 2016

Evaluation of high resolution spatio-temporal precipitation extremes from a stochastic weather generator
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

From vision to operation - Smart real-time control of water systems in Aarhus, Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Greenhouse gas emissions from integrated urban drainage systems: where do we stand?
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Hydrologic impact of urbanization with extensive stormwater infiltration
Research output: Research - peer-review › Journal article – Annual report year: 2017

Integrated hydrological model-based assessment of stormwater management scenarios in Copenhagen's first climate resilient neighbourhood using the three point approach
Research output: Research - peer-review › Journal article – Annual report year: 2017

Måling af vandkvalitet i overløbsbygværker
Research output: Commissioned › Journal article – Annual report year: 2017

Modelling Illicit Drug Fate in Sewers for Wastewater-Based Epidemiology
Research output: Research - peer-review › Poster – Annual report year: 2018

Model predictive control for urban drainage: testing with a nonlinear hydrodynamic model
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Particle-enhanced transportation of metal and PAH pollution reduces stormwater treatment efficiency based on settling and filtration
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Social construction of stormwater control measures in Melbourne and Copenhagen: A discourse analysis of technological change, embedded meanings and potential mainstreaming
Research output: Research - peer-review › Journal article – Annual report year: 2017

Spatial bias and uncertainty in numerical weather predictions for urban runoff forecasts with long time horizons
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards a domain-based framework for use of rainfall forecasts in control of integrated urban wastewater systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Urban runoff forecasting with ensemble weather predictions
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Using a time-lagged method to enhance Numerical Weather Prediction for urban drainage applications
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

A methodological approach to the design of optimising control strategies for sewer systems
Research output: Research - peer-review › Journal article – Annual report year: 2016
A new tool for quantifying the hydrological effects of LID retrofit designs – the power of simplicity
Research output: Research - peer-review › Paper – Annual report year: 2016

Applying the "WSUD potential"-tool in the framework of the Copenhagen Climate Adaptation and Cloudburst Management Plans
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Downscaling future precipitation extremes to urban hydrology scales using a spatio-temporal Neyman–Scott weather generator
Research output: Research - peer-review › Journal article – Annual report year: 2016

Dynamic gauge adjustment of high-resolution X-band radar data for convective rain storms: Model-based evaluation against measured combined sewer overflow
Research output: Research - peer-review › Journal article – Annual report year: 2016

Effect of climate change on stormwater runoff characteristics and treatment efficiencies of stormwater retention ponds; a case study from Denmark using TSS and Cu as indicator pollutants. SpringerPlus, 5:1984, 1-12.
Research output: Research - peer-review › Journal article – Annual report year: 2016

Efficiency of stormwater control measures for combined sewer retrofitting under varying rain conditions: Quantifying the Three Points Approach (3PA)
Research output: Research - peer-review › Journal article – Annual report year: 2016

Evaluation of Maximum a Posteriori Estimation as Data Assimilation Method for Forecasting Infiltration-Inflow Affected Urban Runoff with Radar Rainfall Input
Research output: Research - peer-review › Journal article – Annual report year: 2016

Methodologies for managing the Energy-Water-Food nexus at different scales
Research output: Commissioned - peer-review › Report chapter – Annual report year: 2016

Modelling Illicit Drug Fate in Sewers for Wastewater-Based Epidemiology

Modelling the impact of Water Sensitive Urban Design technologies on the urban water cycle

Probabilistic runoff volume forecasting in risk-based optimization for RTC of urban drainage systems
Research output: Research - peer-review › Journal article – Annual report year: 2016

Simultaneous removal of As, Cd, Cr, Cu, Ni and Zn from stormwater using high-efficiency industrial sorbents: Effect of pH, contact time and humic acid
Research output: Research - peer-review › Journal article – Annual report year: 2016

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

A methodological approach to designing sewer system control
Research output: Research › Ph.D. thesis – Annual report year: 2015

A new tool for quantifying the impacts of water sensitive urban design – the power of simplicity
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015
A partial ensemble Kalman filtering approach to enable use of range limited observations
Research output: Research - peer-review › Journal article – Annual report year: 2015

Change in the Urban Water Management Regime – Successful Technology and Institutional Pathways
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Comparison of two stochastic techniques for reliable urban runoff prediction by modeling systematic errors
Research output: Research - peer-review › Journal article – Annual report year: 2015

Coupling of weather forecasts and smart grid-control of wastewater inlet to Kolding WWTP (Denmark)
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Determining the extent of groundwater interference on the performance of infiltration trenches
Research output: Research - peer-review › Journal article – Annual report year: 2015

Effect of Disc Filtration with and without Addition of Flocculent on Nano- and Micro-Particles and Their Associated Polycyclic Aromatic Hydrocarbons in Stormwater
Research output: Research - peer-review › Journal article – Annual report year: 2015

Evaluation of stormwater micropollutant source control and end-of-pipe control strategies using an uncertainty-calibrated integrated dynamic simulation model
Research output: Research - peer-review › Journal article – Annual report year: 2015

LAR-potentiale: a new planning tool to support sustainable stormwater management
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Mikroforureninger i spildevand og regnvand
Research output: Research - peer-review › Journal article – Annual report year: 2015

Modelling of stormwater infiltration for stream restoration. Beder (Aarhus) case study
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Modelling the impact of retention–detention units on sewer surcharge and peak and annual runoff reduction
Research output: Research - peer-review › Journal article – Annual report year: 2015

Ny database om miljøfremmede stoffer i afstrømmende regnvand
Research output: Research - peer-review › Journal article – Annual report year: 2015

On extracting information from numerical weather prediction ensemble precipitation forecasts to anticipate urban runoff flow domains
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Quantification the Effects of Water Sensitive Urban Design in a Simplifying Manner
Research output: Research - peer-review › Poster – Annual report year: 2015

Quantitative potential for stormwater control measures
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Regulatory control analysis and design for sewer systems
Research output: Research - peer-review › Journal article – Annual report year: 2015
Reliability of adaptive multivariate software sensors for sewer water quality monitoring
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

SUDS, LID, BMPs, WSUD and more - The evolution and application of terminology surrounding urban drainage
Research output: Research - peer-review › Journal article – Annual report year: 2015

Using ensemble weather forecast in a risk based real time optimization of urban drainage systems
Research output: Research - peer-review › Journal article – Annual report year: 2015

Using Numerical Weather Prediction Ensembles to Anticipate Flows in Urban Area
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Using numerical weather prediction ensembles to distinguish urban drainage flow domains 2 days ahead
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Using the three points approach to see beyond extremes for urban hydrology
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Værktøj til vurdering af LAR-potentiale
Research output: Communication › Journal article – Annual report year: 2015

A critical review of integrated urban water modelling – Urban drainage and beyond
Research output: Research - peer-review › Journal article – Annual report year: 2014

Advanced Monitoring of Combined Sewer Overflows: what to measure and how to measure
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Advanced monitoring of wastewater quality: data collection and data quality assurance
Research output: Research - peer-review › Paper – Annual report year: 2014

A model library for dynamic transport and fate of micropollutants in integrated urban wastewater and stormwater systems
Research output: Research - peer-review › Journal article – Annual report year: 2014

AMOK – er det bare sund fornuft?: Avanceret online Måling af OverløbsKvalitet
Research output: Research - peer-review › Journal article – Annual report year: 2015

A new settling velocity model to describe secondary sedimentation
Research output: Research - peer-review › Journal article – Annual report year: 2014

Auto-Calibration for Data Assimilation in Linear Reservoir Models Used in Flow Forecasting of Urban Runoff
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Demonstrationsanlæg for Filtrering af vejvand for udledning til ferskvandsområde: Afrapportering for projekt støttet af VTU - Fonden
Research output: Commissioned - peer-review › Report – Annual report year: 2014

Flow Forecasting using Deterministic Updating of Water Levels in Distributed Hydrodynamic Urban Drainage Models
Research output: Research - peer-review › Journal article – Annual report year: 2014
Impacts of Hydraulic Residence Time Prediction and Diurnal Loading Pattern on the Estimation of Drug Abuse in Urban Areas
Research output: Research - peer-review › Paper – Annual report year: 2014

Influence of selecting secondary settling tank sub-models on the calibration of WWTP models – A global sensitivity analysis using BSM2
Research output: Research - peer-review › Journal article – Annual report year: 2014

Long forecast horizon to improve Real Time Control of urban drainage systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Modelling of green roof hydrological performance for urban drainage applications
Research output: Research - peer-review › Research output: Annual report year: 2014

Modelling of secondary sedimentation under wet-weather and filamentous bulking conditions
Research output: Research › Ph.D. thesis – Annual report year: 2014

Modelling of spatio-temporal precipitation relevant for urban hydrology with focus on scales, extremes and climate change
Research output: Research › Ph.D. thesis – Annual report year: 2014

Modelling the Impact of Filamentous Bacteria Abundance in a Secondary Settling Tank: CFD Sub-models Optimization Using Long-term Experimental Data
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Modelling the impact of implementing Water Sensitive Urban Design on at a catchment scale
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Modelling the impact of retention-detention units on sewer surcharge and peak and annual runoff reduction
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Nano- and microparticles and associated pollutants in stormwater runoff: effects of disc filtration with and without flocculant addition
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Probabilistic Forecasting for On-line Operation of Urban Drainage Systems
Research output: Research › Ph.D. thesis – Annual report year: 2014

Probabilistic modelling in urban drainage – two approaches that explicitly account for temporal variation of model errors
Research output: Research - peer-review › Paper – Annual report year: 2014

Probabilistic online runoff forecasting for urban catchments using inputs from rain gauges as well as statically and dynamically adjusted weather radar
Research output: Research - peer-review › Journal article – Annual report year: 2014

Real Time Control strategies to reduce expansion of urban drainage systems. Case study: Lyngby-Taarbæk
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Real Time Updating in Distributed Urban Rainfall Runoff Modelling
Research output: Research › Ph.D. thesis – Annual report year: 2014

Risk-Based Model Predictive Control of Urban Drainage Networks: When Uncertainty matters
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014
Significance of settling model structures and parameter subsets in modelling WWTPs under wet-weather flow and filamentous bulking conditions.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Stochastic rainfall-runoff forecasting: parameter estimation, multi-step prediction, and evaluation of overflow risk
Research output: Research - peer-review › Journal article – Annual report year: 2013

The Potential of the Technical University of Denmark in the Light of Sustainable Livable Cities
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Updating distributed hydrodynamic urban drainage models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

16 Years of Experience with Rule Based Control of Copenhagen's Sewer System
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Aeration tank settling and real time control as a tool to improve the hydraulic capacity and treatment efficiency during wet weather: Results from 7 years' full-scale operational data
Research output: Research - peer-review › Journal article – Annual report year: 2013

A simple rainfall-runoff model for the single and long term hydrological performance of green roofs
Research output: Research - peer-review › Paper – Annual report year: 2013

A simplified model of soakaway infiltration interaction with a shallow groundwater table.
Research output: Research - peer-review › Journal article – Annual report year: 2013

Assessing future climatic changes of rainfall extremes at small spatio-temporal scales
Research output: Research - peer-review › Journal article – Annual report year: 2013

Comparative socio-technical discourse analysis of Water Sensitive Urban Design for Melbourne, Australia and Copenhagen, Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Comparing the impact of time displaced and biased precipitation estimates for online updated urban runoff models
Research output: Research - peer-review › Journal article – Annual report year: 2013

Comparison of short-term rainfall forecasts for model-based flow prediction in urban drainage systems
Research output: Research - peer-review › Journal article – Annual report year: 2013

Control system design for the wastewater system: The different approaches and their advantages and disadvantages
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2013

Data quality assurance in monitoring of wastewater quality: Univariate on-line and off-line methods
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

DEMFIL - treatment of stormwater for recreational use
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Effect of on/off pumping strategy on sewer sediment behavior elucidated by high frequency monitoring at the treatment plan inlet
Research output: Research - peer-review › Paper – Annual report year: 2013
Following a drop of water from the cloud, throughout the sewer system, into the receiving water - Model predictive control of integrated sewer-wastewater treatment systems
Research output: Research - peer-review › Paper – Annual report year: 2013

How far can various control options take us in terms of increased hydraulic capacity under wet weather conditions?
Research output: Research - peer-review › Poster – Annual report year: 2013

Informal uncertainty analysis (GLUE) of continuous flow simulation in a hybrid sewer system with infiltration inflow - Consistency of containment ratios in calibration and validation?
Research output: Research - peer-review › Journal article – Annual report year: 2013

Integrated control of the wastewater system – potentials and barriers
Research output: Research - peer-review › Journal article – Annual report year: 2013

Investigating the use of stochastic forecast for RTC of urban drainage systems
Research output: Research - peer-review › Paper – Annual report year: 2013

Investigating the use of stochastic forecasts for RTC of urban drainage systems
Research output: Research › Sound/Visual production (digital) – Annual report year: 2013

Kalibrering af en regngenerator til brug for nedskalering af klimastudier
Research output: Research - peer-review › Report chapter – Annual report year: 2013

Model-based comparison of strategies for reduction of stormwater micropollutant emissions
Research output: Research - peer-review › Paper – Annual report year: 2013

Model-based monitoring of stormwater runoff quality
Research output: Research - peer-review › Journal article – Annual report year: 2013

Modelling and monitoring of integrated urban wastewater systems: review on status and perspectives
Research output: Research - peer-review › Journal article – Annual report year: 2013

On the importance of observational data properties when assessing regional climate model performance of extreme precipitation
Research output: Research - peer-review › Journal article – Annual report year: 2013

Perturbing a Stochastic Weather Generator with Different Climate Change Signals to Assess Extreme Precipitation under Influence of Climate Change at Urban Scales
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Quantitative potentials for rainwater handling using the "Three Points Approach" (3PA)
Research output: Research - peer-review › Paper – Annual report year: 2013

Removal of stormwater particulates by disc filter technology
Research output: Research - peer-review › Poster – Annual report year: 2013

Removal of stormwater particulates by disc filter technology
Research output: Research - peer-review › Paper – Annual report year: 2013

Simple værktøjer til helhedsorienteret vurdering af alternative teknologier til regnvandshåndtering
Research output: Research › Sound/Visual production (digital) – Annual report year: 2013
Sorption of PAHs to humic acid- and iron(III)carbonate particles by using passive dosing vials for investigating the transport of organic contamination in stormwater runoff
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Sorption of PAH to humic acid and ironcarbonate particles - passive dosing vials for investigating the transport of organic contamination in stormwater runoff
Research output: Research - peer-review › Poster – Annual report year: 2013

State-space adjustment of radar rainfall and skill score evaluation of stochastic volume forecasts in urban drainage systems
Research output: Research - peer-review › Journal article – Annual report year: 2012

Steps towards Quantitative Assessment of the Effects of Water Sensitive Urban Design
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Stochastic runoff forecasting and real time control of urban drainage systems
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Stochastic runoff forecasting and real time control of urban drainage systems
Research output: Research - peer-review › 2D/3D (physical products) – Annual report year: 2013

Stokastiske prognoser for afløb og real tids styring
Research output: Research › Journal article – Annual report year: 2013

Stokastiske prognoser for afløb og real tids styring
Research output: Research › Journal article – Annual report year: 2013

Urban drainage models simplifying uncertainty analysis for practitioners
Research output: Research - peer-review › Journal article – Annual report year: 2013

Using a weather generator to downscale spatio-temporal precipitation at urban scale
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Validating data quality during wet weather monitoring of wastewater treatment plant influents
Research output: Research - peer-review › Paper – Annual report year: 2013

Velocity dependent passive sampling for monitoring of micropollutants in dynamic stormwater discharges
Research output: Research - peer-review › Journal article – Annual report year: 2013

Water quality-based real time control of integrated urban drainage: a preliminary study from Copenhagen, Denmark
Research output: Research - peer-review › Conference article – Annual report year: 2013

A conceptual framework for addressing complexity and unfolding transition dynamics when developing sustainable adaptation strategies in urban water management.
Research output: Research - peer-review › Journal article – Annual report year: 2012

A formal statistical approach to representing uncertainty in rainfall-runoff modelling with focus on residual analysis and probabilistic output evaluation - Distinguishing simulation and prediction
Research output: Research - peer-review › Journal article – Annual report year: 2013
Afstrømning fra tagflader og befæstede arealer – Vurdering af forureningsrisici for grundvand
Research output: Research › Report – Annual report year: 2013

Application Of Global Sensitivity Analysis And Uncertainty Quantification In Dynamic Modelling Of Micropollutants In Stormwater Runoff
Research output: Research - peer-review › Journal article – Annual report year: 2012

A source classification framework supporting pollutant source mapping, pollutant release prediction, transport and load forecasting, and source control planning for urban environments
Research output: Research - peer-review › Journal article – Annual report year: 2011

A Systematic Approach to Controlling the Sewer System
Research output: Research › Sound/Visual production (digital) – Annual report year: 2012

Climate change-induced impacts on urban flood risk influenced by concurrent hazards
Research output: Research - peer-review › Journal article – Annual report year: 2012

Comparing chemical analysis with literature studies to identify micropollutants to be treated or upstream source controlled in a catchment of Copenhagen (DK)
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Comparison of short term rainfall forecasts for model based flow prediction in urban drainage systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Corporatization of the water sector: Implications for transitioning to sustainable urban water management
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Distributed models coupling soakaways, urban drainage and groundwater
Research output: Research › Ph.D. thesis – Annual report year: 2012

Emission control strategies for short-chain chloroparaffins in two semi-hypothetical case cities
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Evaluation of high resolution spatio-temporal precipitation extremes from a stochastic weather generator
Research output: Research - peer-review › Paper – Annual report year: 2012

Evaluation of probabilistic flow predictions in sewer systems using grey box models and a skill score criterion
Research output: Research - peer-review › Journal article – Annual report year: 2012

Extreme and mean rainfall differences in observational data used as reference in climate studies
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2012

Forecast generation for real-time control of urban drainage systems using greybox modelling and radar rainfall
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Framework for economic pluvial flood risk assessment considering climate change effects and adaptation benefits
Research output: Research - peer-review › Journal article – Annual report year: 2012

Impact of time displaced precipitation estimates for on-line updated models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012
Integrated modelling in Denmark: Current applications and research projects
Research output: Research › Sound/Visual production (digital) – Annual report year: 2012

Integrated modelling of Priority Pollutants in stormwater systems
Research output: Research - peer-review › Journal article – Annual report year: 2011

Model-based analysis of control performance in sewer systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Model based monitoring of stormwater runoff quality
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Modelling the Impact of soakaway retrofits on combined sewage overflows in a 3km² urban catchment in Copenhagen, Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2012

Monitoring, chemical fate modelling and uncertainty assessment in combination: a tool for evaluating emission control scenarios for micropollutants in stormwater systems
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Monitoring of priority pollutants in dynamic stormwater discharges from urban areas
Research output: Research › Ph.D. thesis – Annual report year: 2012

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

Quantification of uncertainty in modelled partitioning and removal of heavy metals (Cu, Zn) in a stormwater retention pond and a biofilter
Research output: Research - peer-review › Journal article – Annual report year: 2012

Quantitative potential for rainwater use
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Quantitative potential for rainwater use
Research output: Research - peer-review › Report – Annual report year: 2012

Relative importance of secondary settling tank models in WWTP simulations: A global sensitivity analysis using BSM2
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Representing soakaways in a physically distributed urban drainage model – Upscaling individual allotments to an aggregated scale
Research output: Research - peer-review › Journal article – Annual report year: 2012

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

State-space adjustment of radar rainfall and stochastic flow forecasting for use in real-time control of urban drainage systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Stochastic flow forecasting with calibrated radar rainfall input
Research output: Research › Report – Annual report year: 2012
Three Points Approach (3PA) for urban flood risk management: A tool to support climate change adaptation through transdisciplinarity and multifunctionality
Research output: Research › peer-review › Journal article – Annual report year: 2012

Uncertainty in engineering, research, negotiation and adaptive management for water sensitive cities
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2012

Uncertainty in prediction and simulation of flow in sewer systems
Research output: Research › Ph.D. thesis – Annual report year: 2012

Urban drainage design and climate change adaptation decision making
Research output: Research › Ph.D. thesis – Annual report year: 2012

Urban drainage models - making uncertainty analysis simple
Research output: Research › peer-review › Article in proceedings – Annual report year: 2012

An integrated model for management of stormwater micropollutants
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2011

A theoretical Framework for Sustainable Transition towards Climate Change Adaptation in Urban Areas
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Climate Change Impacts on Flood risk in Urban Areas due to Combined Effects of Extreme Precipitation and Sea Surges
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2011

Comparing chemical analysis with literature studies to identify micropollutants in a catchment of Copenhagen (DK)
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Effect of climate change on stormwater characteristics and treatment efficiencies of stormwater retention ponds
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Evaluating stormwater micropollutant control strategies by the application of an integrated model
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Evaluation of two stormwater infiltration trenches in central Copenhagen after 15 years of operation
Research output: Research › peer-review › Journal article – Annual report year: 2011

Flow Forecasting In Urban Drainage Systems using Deterministic Updating of Water Levels in Distributed Hydraulic Models
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Grey Box Modelling of Flow In Sewer Systems with State Dependent Diffusion
Research output: Research › peer-review › Journal article – Annual report year: 2011

Investigating the appropriate level of complexity for stormwater micropollutants modelling
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Micropollutants in stormwater runoff and combined sewer overflow in the Copenhagen area, Denmark
Research output: Research › peer-review › Journal article – Annual report year: 2011
Modelling the fate of organic micropollutants in stormwater ponds
Research output: Research - peer-review › Journal article – Annual report year: 2011

Passive sampling and modeling of PAHs and heavy metals in stormwater runoff
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Quantifying the potential of local stormwater infiltration measures in western Copenhagen
Research output: Research - peer-review › Poster – Annual report year: 2011

Real time adjustment of slow changing flow components in distributed urban runoff models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Significance of uncertainties derived from settling tank model structure and parameters on predicting WWTP performance - A global sensitivity analysis study
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Stormwater Priority Pollutants Versus Surface Water Quality Criteria
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Uncertainty-based calibration and prediction with a stormwater surface accumulation-washoff model based on coverage of sampled Zn, Cu, Pb and Cd field data
Research output: Research - peer-review › Journal article – Annual report year: 2011

Water Education: An e-learning platform for water-related competence development
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Water management in cities of the future using emission control strategies for priority hazardous substances
Research output: Research - peer-review › Journal article – Annual report year: 2011

Whole Effluent Assessment of urban discharges
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Combining multimedia models with integrated urban water system models for micropollutants
Research output: Research - peer-review › Journal article – Annual report year: 2010

Design practice for urban drainage including climate change impacts
Research output: Research › Conference abstract in proceedings – Annual report year: 2010

Design practice for urban drainage incorporating climate change impacts
Research output: Research › Conference abstract in proceedings – Annual report year: 2010

Dynamic stormwater treatment unit model for micropollutants (STUMP) based on substance inherent properties
Research output: Research - peer-review › Journal article – Annual report year: 2010

Effects of rainwater harvesting on centralized urban water supply systems
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Effects of rainwater harvesting on centralized urban water supply systems
Research output: Research - peer-review › Journal article – Annual report year: 2010
Emission control strategies for short-chain chloroparaffins in two semi-hypothetical case cities
Research output: Research › Article in proceedings – Annual report year: 2010

Emission control strategies for urban micropollutants
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2010

Emission control strategies for urban micropollutants
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2010

Evaluation of two stormwater infiltration trenches in central Copenhagen after 15 years of operation
Research output: Research › peer-review › Article in proceedings – Annual report year: 2010

Integrated modelling of priority pollutants in stormwater systems
Research output: Research › peer-review › Article in proceedings – Annual report year: 2010

Model based prediction of micropollutants fluxes in stormwater treatment systems
Research output: Research › Conference abstract in proceedings – Annual report year: 2010

Modelling micropollutants fate: Status and challenges
Research output: Research › peer-review › Article in proceedings – 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

Performance of MOUSE UPDATE for level and flow forecasting in urban drainage systems
Research output: Research › Article in proceedings – Annual report year: 2010

The ScorePP approach to predict releases of priority pollutants from urban sources
Research output: Research › Poster – Annual report year: 2010

Three points approach for urban flood risk management: Adapting to climate change through transdisciplinarity and multi-functionality
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2010

Tungmetaller og miljøfremmede organiske stoffer i regnbetingede udledninger: Nye stikprøvemålinger
Research output: Research › Journal article – Annual report year: 2010

Water Education ved DTU – en e-læringplatform i Moodle til individualiseret kompetenceopbygning i samfundets vandsktor
Research output: Communication › Journal article – Annual report year: 2010

Xenobiotics in Stormwater Run-off and Combined Sewer Overflow
Research output: Research › peer-review › Article in proceedings – Annual report year: 2010

Analysis of Extreme Rainfall Trends in Denmark
Research output: Research › peer-review › Article in proceedings – Annual report year: 2009

Application of high resolution x-band radar data for urban runoff modelling: constant vs. dynamic calibration
Research output: Research › peer-review › Article in proceedings – Annual report year: 2009
Combining multimedia models with integrated urban water system models for micropollutants
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Design of urban drainage structures incorporating climate change impacts in a risk framework
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Dynamic experiments with high bisphenol-A concentrations modelled with an ASM model extended to include a separate XOC degrading microorganism
Research output: Research - peer-review › Journal article – Annual report year: 2009

Dynamic transport and fate models for microspecies in integrated urban wastewater systems
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Dynamic transport and fate models for micro-pollutants in integrated urban wastewater systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Evaluation of X-band radar performance as precipitation estimator compared to rain gauges
Research output: Research › Poster – Annual report year: 2009

Holland: Landskabsbaseret afvanding
Research output: Research › Journal article – Annual report year: 2009

Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Integrating soakaway infiltration devices in distributed urban drainage models – from allotment to neighbourhood scale
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Modelling removal of micropollutants in stormwater treatment systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Modelling the removal of Priority Pollutants in the urban water cycle
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2009

Obtaining DDF Curves of Extreme Rainfall Data Using Bivariate Copula and Frequency Analysis
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Options de contrôle à la source pour la réduction d'émissions de substances prioritaires en zone urbaine
Research output: Research - peer-review › Journal article – Annual report year: 2009

Potential future increase in extreme one-hour precipitation events over Europe due to climate change
Research output: Research - peer-review › Journal article – Annual report year: 2009

Quantifying releases of priority pollutants from urban sources
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

ScorePP - Abstracts from the dissemination workshop on Evaluating Source Control Options for Reducing Emissions of Micropollutants, Quebec City, Canada, Monday 5 and Tuesday 6 October 2009
Research output: Research › Report – Annual report year: 2009
ScorePP - source control options for Reducing Emissions of Priority Pollutants
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Screening for Xenobiotics in Stormwater and Combined Sewer Overflows
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Source control options for reducing emissions of pollutants from urban areas: Abstract WE 225
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Source-flux-fate modelling of priority pollutants in stormwater systems
Research output: Research › Poster – Annual report year: 2009

Strategies for controlling emissions of priority pollutants
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Strategies for controlling emissions of priority pollutants from case city archetypes
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

The three points approach for urban flood risk management: Climate change adaptation through multi-functionality
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Uncertainty Analysis of Storm- and Wastewater models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Update of regional intensity-duration-frequency curves in Denmark: Tendency towards increased storm intensities
Research output: Research - peer-review › Conference article – Annual report year: 2009

Urban Flood Risk Management: Implementation of the Three Points Approach
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Research output: Research › Report – Annual report year: 2009

Classifying Urban Sources of Priority Pollutants: A Source Classification Framework (confidential)
Research output: Research › Report – Annual report year: 2008

DayWater: summary and future development
Research output: Research - peer-review › Book chapter – Annual report year: 2008

DayWater: the challenge to develop an adaptive decision support system for urban stormwater source control
Research output: Research - peer-review › Book chapter – Annual report year: 2008

Evaluation framework for control of integrated urban drainage systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Forskning viser vejen for fremtidens spildevandsystem
Research output: Communication › Journal article – Annual report year: 2008

Future development In extreme one-hour precipitation over Europe due to climate change
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008
Oversvømmelsen i Greve Kommune Juli 2007
Research output: Research › Report – Annual report year: 2008

Risk and vulnerability
Research output: Research › peer-review › Book chapter – Annual report year: 2008

Selection of priority pollutants for Stockholm City - Real life application of CHIAT
Research output: Research › peer-review › Book chapter – Annual report year: 2008

Selection of priority pollutants in the DayWater project
Research output: Research › peer-review › Book chapter – Annual report year: 2008

Source control options for reducing emission of priority pollutants from urban areas
Research output: Research › peer-review › Article in proceedings – Annual report year: 2008

Source Control Options for Reducing Emissions of Priority Pollutants from urban areas
Research output: Research › Conference abstract in proceedings – Annual report year: 2008

Spildevandskomiteens vejrradarudvalg
Research output: Communication › Journal article – Annual report year: 2008

Storm- and Wastewater Informatics: Præsentation af et nyt dansk forskningsprojekt
Research output: Communication › Sound/Visual production (digital) – Annual report year: 2008

Application of on-line data for CSO-calculation and its consequences
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Arealbaseret afvanding af danske byer
Research output: Research › Journal article – Annual report year: 2007

Artificial neural networks for rapid WWTP performance evaluation: Methodology and case study
Research output: Research › peer-review › Journal article – Annual report year: 2007

Comparative uncertainty analysis of copper loads in stormwater systems using GLUE and grey-box modeling
Research output: Research › peer-review › Journal article – Annual report year: 2007

Designing filters for copper removal for the secondary treatment of storm water
Research output: Research › peer-review › Book chapter – Annual report year: 2007

How uncertain is model-based prediction of copper loads in stormwater runoff?
Research output: Research › peer-review › Journal article – Annual report year: 2007

Risk assessment of Xenobiotics in stormwater discharged to Harrestrup Å, Denmark
Research output: Research › peer-review › Journal article – Annual report year: 2007

SCOREPP - Source Control Options for Reducing Emissions of Priority Pollutants: MO PC7-7
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2007

Selected stormwater priority pollutants: a European perspective
Research output: Research › peer-review › Journal article – Annual report year: 2007
Selection of stormwater priority pollutants in the City of Malmö, Sweden
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Simultaneous removal of As, Cd, Cr, Cu, Ni and Zn from stormwater: Experimental comparison of 11 different sorbents
Research output: Research › peer-review › Journal article – Annual report year: 2007

Source control options for reducing emission of priority pollutants from urban areas – source characterisation
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Uncertainty in model-based prediction of copper loads in stormwater runoff
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Uncertainty, risk and modelling in urban drainage
Research output: Research › Ph.D. thesis – Annual report year: 2006

A methodology for ranking and hazard identification of xenobiotic organic compounds in urban stormwater
Research output: Research › peer-review › Journal article – Annual report year: 2006

CHIAT: Chemical hazard identification and assessment tool for selection of priority pollutants
Research output: Research › peer-review › Book chapter – Annual report year: 2006

Evidence of increased storm intensities in Denmark from the augmented rain database (1997-2005)
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Future extreme precipitation in Denmark: An analysis based on future climate scenario simulation with a 12x12 km regional climate model
Research output: Research › peer-review › Article in proceedings – Annual report year: 2006

Hvorfor nedsiver vi ikke bare regnvandet?: Hvad er problemet?
Research output: Research › Sound/Visual production (digital) – Annual report year: 2006

Indicators of hazard, vulnerability and risk in urban drainage
Research output: Research › peer-review › Journal article – Annual report year: 2006

Integrated modelling of two xenobiotic organic compounds
Research output: Research › peer-review › Journal article – Annual report year: 2006

Kemiske forureningsstoffer i regnafstrømning fra befæstede overflader
Research output: Research › Journal article – Annual report year: 2006

Kraftigere regnintensiteter skal indarbejdes i dimensioneringen af afløbssystemer
Research output: Communication › Journal article – Annual report year: 2006

Regional variation af ekstremregn i Danmark: ny bearbejdning (1979-2005)
Research output: Research › Report – Annual report year: 2006

Research output: Research › Report – Annual report year: 2006
Transfer of hydrophobic contaminants in urban runoff particles to benthic organisms estimated by an in vitro bioaccessibility test
Research output: Research - peer-review › Journal article – Annual report year: 2006

Udvikling af metode til karakterisering af gråt spildevand
Research output: Research › Report – Annual report year: 2006

Urban drainage 10: Selected proceedings of the 10th international congress on urban drainage, 21-26 August 2005, held in Copenhagen, Denmark
Research output: Research - peer-review › Book – Annual report year: 2006

Urban Drainage 2005: Selected proceedings of the 10th international conference on urban drainage, held in Copenhagen, Denmark, 21-16 August, 2005
Research output: Research - peer-review › Book – Annual report year: 2006

10th International Conference on Urban Drainage, 21-26 August 2005, Copenhagen/Denmark, 10ICUD: Abstract collection
Research output: Research - peer-review › Book – Annual report year: 2005

Accounting for uncertainty in urban drainage system performance assessment using safety factors applied to runoff
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

A novel method for evaluating bioavailability of polycyclic aromatic hydrocarbons in sediments of an urban stream
Research output: Research - peer-review › Journal article – Annual report year: 2005

Chemical hazard identification and assessment tool for evaluation of stormwater priority pollutants
Research output: Research - peer-review › Journal article – Annual report year: 2005

CHIAT - Chemical hazard identification and assessment tool: En metodik för utvärdering av kemiska risker i samband med hantering av dag- och avloppsvatten
Research output: Research › Report – Annual report year: 2005

Development of filters for secondary treatment of stormwater
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Forurening af vejvand og muligheder for rensning: Indlæg ved Kemira Miljø temadag
Research output: Communication › Sound/Visual production (digital) – Annual report year: 2005

Funktionspraksis for afløbssystemer under regn
Research output: Research › Report – Annual report year: 2005

Funktionspraksis for afløbssystemer under regn: baggrundsrapport for Skrift. Nr. 27
Research output: Research › Report – Annual report year: 2005

Heavy metal removal from stormwater runoff by sorption
Research output: Research › Article in proceedings – Annual report year: 2005
Research output: Research › Report – Annual report year: 2005

New stormwater priority pollutants: Comparison with international classifications, quality criteria and monitoring programs
Research output: Research › Article in proceedings – Annual report year: 2005

Principper for fastsættelse af sikkerhedstillæg
Research output: Communication › Sound/Visual production (digital) – Annual report year: 2005

Rapid WWTP performance evaluation over a wide range of operating conditions using artificial neural networks
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Riskbedömning av föroreningskomponenter i dagvatten
Research output: Research › Article in proceedings – Annual report year: 2005

Risk, hazard and vulnerability in the daywater project
Research output: Research › Conference abstract in proceedings – Annual report year: 2005

Risks and problems in urban stormwater management from a pan European end user perspective
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Selection of priority pollutants for Stockholm City - Real life application of CHIAT
Research output: Research › Conference abstract in proceedings – Annual report year: 2005

Selection of regional historical rainfall time series as input to urban drainage simulations at ungauged locations
Research output: Research - peer-review › Journal article – Annual report year: 2005

Selection of stormwater priority pollutants
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

System process modelling report
Research output: Research › Report – Annual report year: 2005

Urban drainage in transition
Research output: Communication › Book chapter – Annual report year: 2005

An approach for identification of problems related to chemical compounds and handling of rainwater in households
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Brug af regnvand opsamlet fra tage og befæstede arealer - Udpegning af relevante måleparametre
Research output: Research › Report – Annual report year: 2004

Comparative assesment of alternative waste recyucling schemes in Thailand using two multicriteria analysis techniques
Research output: Research - peer-review › Journal article – Annual report year: 2004

How to Identify priority pollutants?
Research output: Research › Poster – Annual report year: 2004
Development of methodology for hazard identification of rainwater collected for reuse
Research output: Research - peer-review › Article in proceedings – Annual report year: 2002

Dissemination of regional rainfall analysis in design and analysis of urban drainage at un-gauged locations
Research output: Research - peer-review › Journal article – Annual report year: 2002

Efterbehandling af forurenet regnvand
Research output: Research › Journal article – Annual report year: 2002

Hazard Identification of rainwater collected for non-potable reuse in households
Research output: Research › Article in proceedings – Annual report year: 2002

Hvor meget forurener afløbssystemer i regnvejr?
Research output: Research › Journal article – Annual report year: 2002

Model based risk assessment of CSO induced DO depletion in urban rivers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2002

Rainwater tanks are less efficient than detention basins for CSO abatement
Research output: Research › Article in proceedings – Annual report year: 2002

Regional estimation of rainfall intensity-duration-frequency curves using generalized least squares regression of partial duration series statistics
Research output: Research - peer-review › Journal article – Annual report year: 2002

Removal of dissolved heavy metals from pre-settled stormwater runoff by iron-oxide coated sand (IOCS)
Research output: Research › Article in proceedings – Annual report year: 2002

Removal of dissolved heavy metals from pre-settled stormwater runoff by iron-oxide coated sand (IOCS)
Research output: Research › Article in proceedings – Annual report year: 2002

Sediment toxicity in an urban runoff detention pond determined by synthetic gut fluid of benthic organisms
Research output: Research › Conference abstract for conference – Annual report year: 2002

Some perspectives for environmental risk assessment of urban stormwater management
Research output: Research › Article in proceedings – Annual report year: 2002

Vurdering af bæredygtig spildevandshåndtering i kloakløse bebyggelser
Research output: Research › Report – Annual report year: 2002

Effects of organic matter on clogging in sand columns
Research output: Research › Book chapter – Annual report year: 2001

En voksende milliardregning under jorden?
Research output: Communication › Journal article – Annual report year: 2001

Microbial clogging in sand column experiments
Research output: Research › Book chapter – Annual report year: 2001

Muligheder for økologisk spildevandsrensning på Christiansø
Research output: Research - peer-review › Book – Annual report year: 2001
Offentlige afløbssystemer
Research output: Research › Book chapter – Annual report year: 2001

Options for sustainable sanitation at Christiansø: A small island in the Baltic
Research output: Research › peer-review › Poster – Annual report year: 2001

Risk assessment of stormwater contaminants following discharge to soil, groundwater or surface water
Research output: Research › peer-review › Book chapter – Annual report year: 2001

Spildevandet på Christiansø skal reguleres
Research output: Research › Journal article – Annual report year: 2001

Vurdering af spildevandsløsninger i det åbne land - et casestudie om Hillerød Kommune
Research output: Research › Report – Annual report year: 2001

Assessing the sustainability of small wastewater systems. A context-oriented planning approach
Research output: Research › peer-review › Journal article – Annual report year: 2000

Evaluation of teaching in environmental engineering
Research output: Research › peer-review › Journal article – Annual report year: 2000

Vurdering af bæredygtig spildevandshåndtering i kloak-løse bebyggelser: Afrapportering af fase II
Research output: Research › Report – Annual report year: 2000

Alternative spildevandssystemer - 10 illustrerede eksempler fra Sverige
Research output: Research › peer-review › Report – Annual report year: 1999

Assessing the sustainability of small wastewater systems: A context oriented planning approach
Research output: Research › peer-review › Article in proceedings – Annual report year: 1999

Assessing the sustainability of wastewater handling in non-sewered settlements.
Research output: Research › peer-review › Article in proceedings – Annual report year: 1999

Collected rainfall as a water source in Danish households - what is the potential and what are the costs?
Research output: Research › peer-review › Journal article – Annual report year: 1999

De ingeniørmæssige spildevands- og afløbsopgaver i det 21. århundrede. Halvdagsseminar arrangeret af IDA's Spildevandskomite i samarbejde med IDAmiljø, DTU 8. november 1999
Research output: Research › peer-review › Report – Annual report year: 1999

Hydrologic behaviour of stormwater infiltration trenches in a central urban area during 2 3/4 years of operation
Research output: Research › peer-review › Journal article – Annual report year: 1999

On the selection of historical rainfall series for simulation of urban drainage
Research output: Research › peer-review › Article in proceedings – Annual report year: 1999

Recent experiences with stormwater infiltration (partly in Japanese)
Research output: Research › peer-review › Journal article – Annual report year: 1999
Regional variation of extreme rain in Denmark
Research output: Research - peer-review › Report – Annual report year: 1999

Sammenhængen mellem nedbør, kloakudformning og udledning
Research output: Research › Article in proceedings – Annual report year: 1999

Urban drainage management - an integrated assessment of options
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

Urban pollution runoff modelling from combined sewer overflows
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

Vurdering af bæredygtig spildevandshåndtering i kloak-løse bebyggelser. Afrapportering af fase 1
Research output: Research - peer-review › Report – Annual report year: 1999

A rationale for using local and regional point rainfall data for design and analysis of urban storm drainage systems
Research output: Research - peer-review › Journal article – Annual report year: 1998

Boligerne's vandforbrug. Den udnyttelige regnvandsressource
Research output: Research - peer-review › Report – Annual report year: 1998

Combined effects of retrofitting, storm-water infiltration and real time control for combined sewer overflow abatement
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Estimation of regional intensity-duration-frequency curves for extreme precipitation
Research output: Research - peer-review › Conference article – Annual report year: 1998

Infiltration of urban runoff under consideration of the joint probability of rain and high groundwater levels
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Long-term hydrologic behaviour of stormwater infiltration trenches in a central urban area
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Microbial growth and clogging in sand column experiments simulating artificial recharge of groundwater
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Nedsivning af regnvand fra en boligkarré på Nørrebro.: 2 1/2 års monitoring af et faskineanlægs hydrauliske funktion - Dokumentation og databearbejdning. Forskningsgruppen omkring urban afstrømning, LAR
Research output: Research - peer-review › Report – Annual report year: 1998

Properties of extreme point rainfall I: Results form a rain gauge system in Denmark. (in Chinese): Lectures given at The National Engineering Research Center for Urban Water and Wastewater, Tianjin, China, October 14-16
Research output: Research - peer-review › Book – Annual report year: 1998

Quality control of rain data used for urban runoff systems
Research output: Research - peer-review › Conference article – Annual report year: 1998

Regenwassernutzung für Wasserversorgung einzelner Haushalte? - Beispiel Dänemark
Research output: Research › Journal article – Annual report year: 1998

Urban stormwater infiltration (Nedsivning af regnvand i byområder)
Research output: Research › Article in proceedings – Annual report year: 1998
Accumulation of contaminants in urban soils due to stormwater infiltration
Research output: Research › Poster – Annual report year: 1997

A rationalistic approach to using local and regional rainfall data for design and analysis of urban storm drainage systems
Research output: Research › Paper – Annual report year: 1997

Consequences for established design practice from geographical variation of historical rainfall data
Research output: Research › peer-review › Journal article – Annual report year: 1997

Design of stormwater infiltration trenches based on uncertain information
Research output: Research › peer-review › Article in proceedings – Annual report year: 1997

Estimation of regional intensity-duration-frequency curves for extreme precipitation
Research output: Research › peer-review › Article in proceedings – Annual report year: 1997

Pollution of soil and groundwater from infiltration of highly contaminated stormwater - a case study
Research output: Research › peer-review › Journal article – Annual report year: 1997

Quality control of rain data used for urban runoff systems
Research output: Research › peer-review › Article in proceedings – Annual report year: 1997

Regulering, styring og nedsvinning
Research output: Research › Journal article – Annual report year: 1997

Research at the Department of Environmental Science and Engineering, Technical University of Denmark
Research output: Research › Journal article – Annual report year: 1997

An easy-to-use conceptual design method for stormwater infiltration structures
Research output: Research › peer-review › Article in proceedings – Annual report year: 1996

Den ekstreme punktregns fordeling i Danmark
Research output: Research › peer-review › Journal article – Annual report year: 1996

Experimental assessment of soil and groundwater contamination from two old infiltration systems for road run-off in Switzerland
Research output: Research › peer-review › Journal article – Annual report year: 1996

Infiltration practice for control of urban stormwater
Research output: Research › peer-review › Journal article – Annual report year: 1996

L-moment analysis of Danish rainfall extremes
Research output: Research › peer-review › Article in proceedings – Annual report year: 1996

Properties of extreme point rainfall III: Identification of spatial inter-site correlation structure
Research output: Research › peer-review › Journal article – Annual report year: 1996
Reduction of urban runoff pollution discharges by means of stormwater infiltration and detention basins
Research output: Research - peer-review › Article in proceedings – Annual report year: 1996

Research at the Department of Environmental Science and Engineering, Technical University of Denmark
Research output: Research › Journal article – Annual report year: 1996

Databehandling og stokastisk modellering af regn og regnafstrømnings i byer - Rapport til Den kommunale Momsfond herunder rapportering af projektet: "Bearbejdning af ti års regndata til projektering af afløbsystemer"
Research output: Research › Report – Annual report year: 1995

Modelling of Regional-Scale Spatial Variation of Historical Rainfall Data
Research output: Research - peer-review › Paper – Annual report year: 1995

Properties of Extreme Point Rainfall II: Parametric Data Interpretation and Regional Uncertainty Assessment
Research output: Research - peer-review › Journal article – Annual report year: 1995

Properties of Extreme Point Rainfall I: Results From a Rain Gauge System in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 1995

Design of Stormwater Infiltration for Reduction of Combined Sewer Overflow (CSO)
Research output: Research - peer-review › Journal article – Annual report year: 1994

Pollution from Urban Stormwater Infiltration
Research output: Research - peer-review › Conference article – Annual report year: 1994

Combined Sewer Overflow Abatement by Means of Detention Basins and Stormwater Infiltration
Research output: Research - peer-review › Article in proceedings – Annual report year: 1993

Dimensionering af anlæg til Lokal Afledning af Regnvand - Litteraturstudie og forslag til ny dansk dimensioneringspraksis
Research output: Research › Report – Annual report year: 1993

Pollution from Urban Stormwater Infiltration
Research output: Research - peer-review › Article in proceedings – Annual report year: 1993

Stochastic Interpretation and and Application of Urban Hydrological Runoff Data
Research output: Research - peer-review › Article in proceedings – Annual report year: 1993

Stormwater Infiltration Design Based on Rainfall and Soil Hydraulics
Research output: Research - peer-review › Article in proceedings – Annual report year: 1993

Uncertainties in Urban Runoff Extreme Value Calculations Caused by Statistical/Geographical Variation in Rainfall Data
Research output: Research - peer-review › Article in proceedings – Annual report year: 1993

Effekten af nedsivning på traditionel regnvandsafledning
Research output: Research › Report – Annual report year: 1992

Ekstremregn intensiteter og rørdimensionering
Research output: Research - peer-review › Journal article – Annual report year: 1992

Ekstremregn nedsæmnings og geografiske fordeling
Research output: Research - peer-review › Journal article – Annual report year: 1992
Lokal afledning af regnvand
Research output: Research - peer-review › Journal article – Annual report year: 1992

Lokal afledning af regnvand
Research output: Research › Report – Annual report year: 1992

Regnsierier, overløbsmængder og bassindimensionering
Research output: Research - peer-review › Journal article – Annual report year: 1992

Round Table Discussions: Raw Estimates for Hydrologic Efficiency of Area-Wide Stormwater Infiltration
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 1992

Stormwater Infiltration Design Based on Rainfall Statistics and Soil Hydraulics
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 1992

The Uncertainty in Choosing Rainfall Data From a Network of Rain Gauges
Research output: Research › Article in proceedings – Annual report year: 1992

Design/Modelling of Stormwater Infiltration
Research output: Research › Article in proceedings – Annual report year: 1991

Projects:

The digital twin of urban drainage systems - dynamic models and measurements for error diagnosis
Project: PhD

Hydraulic Modelling and data assimilation for deep urban tunnel systems
Project: PhD

Planning Tools for Stormwater Pollution Management
Project: PhD

Krav til rensning af regnbetinget udledning i Danmark og EU
Project: Research

Vand Innovation SMVer
Project: Research

Fuldautomatisk decentral rensning af partikler i regnbetingede udledninger
Project: Research

Stochastic Predictive Control of Wastewater Treatment Processes
Project: PhD

Digital tools for landscape architects: A case study of digital tools used for analyzing and screening climate adaptation challenges in the early design phase
Project: Research

Models for real time warning and control strategies in urban drainage and wastewater systems
Project: PhD
Automatisk kalibrering og attenuation korrektion i netværk af små vejrradar
Project: PhD

Modeller til miljøvurdering af affaldssystemer
Project: PhD

Recirkulering af næringsstoffer i affald fra byer i det sydlige Thailand
Project: PhD

Optimering af design og udnyttelse af overfladevands reservoirer i bæredygtigt perspektiv
Project: PhD

Kvantitativt potenti for regnvandshåndtering
Project: PhD

Optimized real-time management of interacting water systems for a smarter city
Project: PhD

Drivers and Barriers to the Innovation and Implementation of Alternative Solutions to Climate Adaption
Project: PhD

Contrasting the Water Innovation Systems in Europe and China
Project: PhD

Chemical disinfection of combined sewer overflow (CSO) water
Project: PhD

Using long weather forecast to improve integrated wastewater management
Project: PhD

Updating large-scale hydrodynamic models with radar altimetry data from CryoSat
Project: PhD

Integration of Environmental Life Cycle Information Into Cad-Systems for Support of Design for Environment
Project: PhD

Preparedness and Mitigation Measures to Cope with Drought in Vietnam's Central Highland
Project: PhD

Stoftransport ved infiltration af regnvand
Project: PhD

Dynamic Modelling of Xenobiotik Organic Compounds in the Integrated Urban Wastewater System
Project: PhD

Framework for Real Time Control of Integrated Urban Wastewater Systems
Project: PhD

Modelbaseret risikovurdering af integrerede spildevandssystemer
Project: PhD
Source-Flux-Fate Modelling of Priority Pollutants in Stormwater Systems
Project: PhD

Optimizing control of the integrated urban wastewater system
Project: PhD

Groundwater Management: Real-Time Optimisation and Control
Project: PhD

Incertitude and its Implications for the Environmental Field
Project: PhD

Modelling of in-sewer transformation of biomarkers
Project: PhD

Uncertainty and adaptive estimation in storm- and wastewater system modelling
Project: PhD

Regional-scale hydrological modeling and water resources management in the Zambezi River Basin
Project: PhD

Scenario modeling for optimized integrated real-time control of sewer - wastewater treatment plant systems
Project: PhD

Modeling the impact of soakaways on urban water flooding
Project: PhD

Risk Management of Climate Extremes in an Urban Environment
Project: PhD

Reducing uncertainty in future extreme precipitation
Project: PhD

Modelling of water quality in sewer-WWTP systems during normal and extreme condition
Project: PhD

Optimised Model-based Monitoring of Water Quality in Dynamic Discharges from Urban Areas
Project: PhD

Urban Runoff Design under influence of Climate Change
Project: PhD

Quantitative health and microbial risk assessment for public warning during flood
Project: PhD

Integrated modelling of sustainable urban stormwater systems
Project: PhD

A simulation-optimization approach for coupled water-energy systems
Project: PhD
Projekt om afløb fra tagflader og befæstede arealer – vurdering af forureningsrisici for grundvand
Project: Research

Regn med kvalitet
Project: Research

Forbedret Rensning Og Desinfektion af Overløbsvand (FRODO)
Project: Research

Demonstrationsanlæg for Filtrering af vejvand for udledning til ferskvandsområde (DemFil).
Project: Research

Chemical options for desinfection of combined sewer overflows
Project: Research

Managing flow equalised storm- and wastewater
Project: Research

Concept proof of usability of ocher as a source of iron in wastewater treatment
Project: Research

Sustainable Environmental Technology. Application for 5 fellowships
Project: Research

Reducing uncertainty in future extreme precipitation (RUFEP)
Project: Research

Water in Urban Areas - partnership for climate change adaptation and innovation
Project: Research

SUDS Project Handbook
Project: Research

Development of e-learning courses in environmental technology and physics.
Project: Research

Control of hazardous substances in the Baltic Sea Region
Project: Research

Impact of climate change on the quality of urban and coastal waters (diffuse pollution)
Project: Research

Videreudvikling af on-line styring på Avedøre
Project: Research

19K: Innovation in the municipal technical administration and public utilities - in interplay with private companies, knowledge institutions and trade networks
Project: Research
Storm- and Wastewater Informatics  
Project: Research

EU-Vandnettet  
Project: Research

2BG: Black, blue and green - Integrated infrastructure planning as key to sustainable urban water systems  
Project: Research

Investigations of local handling of grey waste water  
Project: Research

SAFEWATER. Hazardous chemicals and micro-organisms in urban water management.  
Project: Research

Etablering og drift af anlæg til opsamling, rensning og genanvendelse af gråvand ved boliger til toiletkyl og maskinvask af tøj.  
Project: Research

Demonstrationsprojekt med genanvendelse af gråt spildevand fra større gråvandsproducent.  
Project: Research

Spreadsheet for estimation of CDS storms for short durations  
Project: Research

Ecological wastewater handling on Christiansø - a small island in the Baltic  
Project: Research

Ecological handling of rain water in Tingbjerg  
Project: Research

Assessment of sustainable wastewater handling in sewerless settlements  
Project: Research

Model based optimization of integrated drainage systems  
Project: Research

Pollution concentrations in wet weather discharges from combined sewer systems  
Project: Research

Artificial recharge of groundwater  
Project: Research

Hydrologic behaviour of stormwater infiltration systems  
Project: Research

Simulation of the integrated urban wastewater system  
Project: Research

Rain as the cause of flooding in urban areas Statistics of rain as the cause of flooding in urban areas  
Project: Research
Rain as a water resource in households.
Project: Research

Assessment of sustainable wastewater handling in sewerless settlsm.
Project: Research

Pollution concentrations in wet weather discharges from combined sewer systems.
Project: Research

Ecological handling of rainwater in Tingbjerg
Project: Research

Geographical variation of extreme point rainfall
Project: Research

Artificial recharge of groundwater
Project: Research

Massstrømsanalyse for miljøfremmede stoffer i afløbssystemer.
Project: Research

Water for Billions. Start-programmet.
Project: Research

CityNet AM. The network of European research projects on integrated urban water management. Contract no: EVK1-CT-2002-80013-CITYNET
Project: Research

Copenhagens water resources and investigation of possible future water supplies
Project: Research

Characterizing stormwater runoff and developing advanced technical solutions for secondary treatment
Project: Research

Source Control Options for Reducing Emissions of Priority Pollutants
Project: Research

WWT&SYSENG. Getting systems engineering into regional wastewater treatment strategies.
Project: Research

DayWater - Adaptive decision support system for stormwater pollution control
Project: Research

Stochastic modelling of high-resolution rainfall time series
Project: Research

Ecological wastewater handling on Christiansø
Project: Research
Investigations of local handling of grey waste water.
Project: Research

Model based on optimization of integrated drainage systems.
Project: Research

Nutrient recycling from human waste to agriculture in peri-urban areas.
Project: Research

Rain as a water resource in households
Project: Research

Soil and groundwater pollution from urban stormwater infiltration
Project: Research

Hydrologic behaviour of stormwater infiltration systems
Project: Research

Perspectives of stormwater source control
Project: Research

Simulation of the integrated urban wastewater system
Project: Research

Barrierer for økologisk byggeri
Project: Research

Activities:

Vand i Byer stormøde November 2017
Activity: Attending an event › Participating in or organising a conference

Modelling Illicit Drug Fate in Sewers for Wastewater-Based Epidemiology
Activity: Talks and presentations › Conference presentations

A Stochastic Method to Manage Delay and Missing Values for In-Situ Sensors in an Alternating Activated Sludge Process
Activity: Talks and presentations › Conference presentations

WISE project - Experiences & Funding Bazar
Activity: Attending an event › Participating in or organising a conference

WISE-project - Societal needs to be solved & Professional mingling
Activity: Attending an event › Participating in or organising a conference

3th Water DTU Partner Seminar
Activity: Attending an event › Participating in or organising a conference