

Particulate emissions of a modern diesel passenger car under laboratory and real-world transient driving conditions

Methodological approaches for fractionation and speciation to estimate trace element bioavailability in engineered anaerobic digestion ecosystems  
An overview

Application of an indoor air pollution metamodel to a spatially-distributed housing stock

Tuberculosis transmission  
Modelled impact of air-tightness in dwellings in the UK

Selenate removal in biofilm systems  
Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community

Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0

HPLC-SEC  
a new approach to characterise complex wastewater effluents

MicroEnv  
A microsimulation model for quantifying the impacts of environmental policies on population health and health inequalities

Thermophilic aerobic wastewater treatment, process performance, biomass characteristics, and effluent quality

Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements

Bio-electrochemical conversion of industrial wastewater-COD combined with downstream methanol synthesis-an economic and life cycle assessment

Detailed internal characterisation of two Finnish landfills by waste sampling

Internal leachate quality in a municipal solid waste landfill  
Vertical, horizontal and temporal variation and impacts of leachate recirculation

Are there environmental or agricultural benefits in using forest residue biochar in boreal agricultural clay soil?

Weathering of gasification and grate bottom ash in anaerobic conditions

Anaerobic treatment of LCFA-containing synthetic dairy wastewater at 20°C  
Process performance and microbial community dynamics

Characterization of laboratory and real driving emissions of individual Euro 6 light-duty vehicles – Fresh particles and secondary aerosol formation

Downstream integration of microalgae harvesting and cell disruption by means of cationic surfactant-decorated  $\text{Fe}_3\text{O}_4$  nanoparticles

Emission measurements with gravimetric impactors and electrical devices  
An aerosol instrument comparison

Towards bioproduction of poly- $\alpha$ -olefins from lignocellulose

Seasonal and diurnal variations of fluorescent bioaerosol concentration and size distribution in the urban environment

Identification of single microbial particles using electro-dynamic balance assisted laser-induced breakdown and fluorescence spectroscopy

Performance evaluation of the HR-ELPI + inversion

Flow rate-independent electrical aerosol sensor

Characterization of charge in airborne fungal spores

Organic silicon compounds in biogases produced from grass silage, grass and maize in laboratory batch assays

Landfill gas upgrading with countercurrent water wash

Breaking dormancy

An energy-efficient means of recovering astaxanthin from microalgae

Improving the signal-to-noise ratio of Faraday cup aerosol electrometer based aerosol instrument calibrations

Role of Lubricating Oil Properties in Exhaust Particle Emissions of an Off-Road Diesel Engine

Investigating the kinetics and biofuel properties of *Alstonia congensis* and *Ceiba pentandra* via torrefaction

Simulation of the Formation Process of Diesel Exhaust Particle Emissions

Modelling particle distribution using combined power-law and log-normal distribution model

Modelling new particle formation and growth using combined power law and log-normal distribution model

Finding H<sub>2</sub>SO<sub>4</sub>-H<sub>2</sub>O nucleation rates in high H<sub>2</sub>SO<sub>4</sub> concentrations

CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes

Application of the Pegasor Particle Sensor for the Measurement of Mass and Particle Number Emissions

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Use of a catalytic stripper as an alternative to the original PMP measurement protocol

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Exhaust particle sensor for OBD application

CFD based reactivity parameter determination for biomass particles of multiple size ranges in high heating rate devolatilization

Release and characteristics of fungal fragments in various conditions

Assessing urban population vulnerability and environmental risks across an urban area during heatwaves – Implications for health protection

Measurement of the human respiratory tract deposited surface area of particles with an electrical low pressure impactor

Indoor thermal environment, air exchange rates, and carbon dioxide concentrations before and after energy retro fits in Finnish and Lithuanian multi-family buildings

Recovering Nitrogen as a Solid without Chemical Dosing  
Bio-Electroconcentration for Recovery of Nutrients from Urine

Power generation in fed-batch and continuous up-flow microbial fuel cell from synthetic wastewater

Triboelectric charging of fungal spores during resuspension and rebound

Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in a street canyon

Applicability of optical and diffusion charging-based particulate matter sensors to urban air quality measurements

Biochemical changes of fresh water cyanobacteria *dolichospermum flos-aquae* NTMS07 to chromium-induced stress with special reference to antioxidant enzymes and cellular fatty acids

Anaerobic digestion of 30–100-year-old boreal lake sedimented fibre from the pulp industry  
Extrapolating methane production potential to a practical scale

Mesophilic anaerobic digestion of pulp and paper industry biosludge-long-term reactor performance and effects of thermal pretreatment

Landfill methane oxidation in engineered soil columns at low temperature

Experimental Investigation of Cyclic Variability on Combustion and Emissions of a High-Speed SI Engine

Performance of ventilation filtration technologies on characteristic traffic related aerosol down to nanocluster size

Evaluating Particulate Emissions from a Flexible Fuel Vehicle with Direct Injection when Operated on Ethanol and Iso-butanol Blends

Real-time effective density monitor (DENSMO) for aerosol nanoparticle production

Fabrication of fiber filters with antibacterial properties for VOC and particle removal

Anaerobic solubilisation of nitrogen from municipal solid waste (MSW)

Chasing measurements for real-world emissions of city buses

Extending the Faraday cup aerosol electrometer based calibration method up to 5  $\mu\text{m}$

Particle emissions of Euro VI, EEV and retrofitted EEV city buses in real traffic

Removal and recovery of uranium(VI) by waste digested activated sludge in fed-batch stirred tank reactor

Quantitative characterization of pore structure of several biochars with 3D imaging

Toward elemental analysis of ambient single particles using electrodynamic balance and laser-induced breakdown spectroscopy

Review of motor vehicle particulate emissions sampling and measurement  
From smoke and filter mass to particle number

Sorption of zinc onto elemental selenium nanoparticles immobilized in *Phanerochaete chrysosporium* pellets

Methane oxidation in a boreal climate in an experimental landfill cover composed from mechanically-biologically treated waste

Mechanically-biologically treated municipal solid waste as a support medium for microbial methane oxidation to mitigate landfill greenhouse emissions

Building energy-efficiency interventions in North-East Europe  
Effects on indoor environmental quality and public health

The mechanism of the oxidation of benzyl alcohol by iron(III)nitrate  
Conventional versus microwave heating

Effect of temperature on selenium removal from wastewater by UASB reactors

Biohydrogen production from xylose by fresh and digested activated sludge at 37, 55 and 70 °C

Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling

Improving urban air quality measurements by a diffusion charger based electrical particle sensors  
A field study in Beijing, China

Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China

Remediation of sedimented fiber originating from pulp and paper industry  
Laboratory scale anaerobic reactor studies and ideas of scaling up

Effect of tungsten and selenium on C<sub>1</sub> gas bioconversion by an enriched anaerobic sludge and microbial community analysis

Impact of the dropping activity with vehicle age on air pollutant emissions

Distinguishing fuel and lubricating oil combustion products in diesel engine exhaust particles

Thermophilic anaerobic digestion of pulp and paper mill primary sludge and co-digestion of primary and secondary sludge

Fate of metallic engineered nanomaterials in constructed wetlands  
prospection and future research perspectives

The critical velocity of rebound determined for sub-micron silver particles with a variable nozzle area impactor

Differential diffusion analyzer

Use of a PPS sensor in evaluating the impact of fuel efficiency improvement technologies on the particle emissions of a euro 5 diesel car

Applicability of the Pegasor particle sensor to measure particle number, mass and PM emissions

Evaluation of an oxidation catalyst ("catalytic stripper") in eliminating volatile material from combustion aerosol

Comparative performance of a thermal denuder and a catalytic stripper in sampling laboratory and marine exhaust aerosols

Technology review  
prototyping platforms for monitoring ambient conditions

Considerations in analysing elemental carbon from marine engine exhaust using residual, distillate and biofuels