

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

Editorial

Adsorption of furfural from torrefaction condensate using torrefied biomass

Agricultural potential of anaerobically digested industrial orange waste with and without aerobic post-treatment

Anaerobic digestion of poultry slaughtering wastes

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

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

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

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

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

Assessment of pitting corrosion in bare and passivated (wet  $\text{scCO}_2$ -induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS)

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

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

Biomass characterization of laboratory-scale thermophilic-mesophilic wastewater treatment processes

Breaking dormancy  
An energy-efficient means of recovering astaxanthin from microalgae

Cell toxicity and oxidative potential of engine exhaust particles  
Impact of using particulate filter or biodiesel fuel blend

Characterisation and anaerobic batch degradation of materials accumulating in anaerobic digesters treating poultry slaughterhouse waste

Chemolithotrophic denitrification in biofilm reactors

CO-digestion of grass silage and cow manure in a CSTR by re-circulation of alkali treated solids of the digestate

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

Comparison of activated sludge processes at different temperatures  
35°C, 2-55°C, and 55°C

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

Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF

Determination of chlorinated 5-methyl-5-hydroxyfuranones in drinking water, in chlorinated humic water, and in pulp bleaching liquor

Differential diffusion analyzer

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

Downstream integration of microalgae harvesting and cell disruption by means of cationic surfactant-decorated Fe<sub>3</sub>O<sub>4</sub> nanoparticles

Effect of macro- and micro-nutrients addition during anaerobic mono-digestion of grass silage in leach-bed reactors

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

Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell

Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car

Effects of temperature on post-methanation of digested dairy cow manure in a farm-scale biogas production system

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

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

Extending the Faraday cup aerosol electrometer based calibration method up to 5 µm

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

Flow rate-independent electrical aerosol sensor

Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains

Higher Cd adsorption on biogenic elemental selenium nanoparticles

High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate

High-solids anaerobic digestion requires a trade-off between total solids, inoculum-to-substrate ratio and ammonia inhibition

HPLC-SEC  
a new approach to characterise complex wastewater effluents

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

Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events

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

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

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

Induction of genotoxic effects by chlorohydroxyfuranones, byproducts of water disinfection, in E. coli K-12 cells recovered from various organs of mice

Influence of electron acceptor availability and microbial community structure on sedimentary methane oxidation in a boreal estuary

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

Isolation of a MX-guanosine adduct formed at physiological conditions

Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus

Landfill methane oxidation in engineered soil columns at low temperature

London Hybrid Exposure Model  
Improving Human Exposure Estimates to NO<sub>2</sub> and PM<sub>2.5</sub> in an Urban Setting

Low concentration of zeolite to enhance microalgal growth and ammonium removal efficiency in a membrane photobioreactor

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

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

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

Molecular Composition and Volatility of Nucleated Particles from  $\alpha$ -Pinene Oxidation between -50 °c and +25 °c

Mutation spectra of the drinking water mutagen 3-chloro-4-methyl-5-hydroxy-2(5H)-furanone (MCF) in Salmonella TA100 and TA104  
Comparison to MX

Nanocluster Aerosol Emissions of a 3D Printer

Occurrence and removal of organic pollutants in sewages and landfill leachates

Occurrence of some chlorinated enol lactones and cyclopentene-1,3-diones in chlorine-treated waters

Optimised selection of new protective coatings for biofuel boiler applications

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

Performance evaluation of the HR-ELPI + inversion

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

Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds

Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland

Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels

Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles

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

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

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

Release and characteristics of fungal fragments in various conditions

Removal of DEHP in composting and aeration of sewage sludge

Ring-chain tautomerism of chlorinated hydroxyfuranones and reaction with nucleosides

Screening for potential fermentative hydrogen production from black water and kitchen waste in on-site UASB reactor at 20°C

Screening of physical-chemical methods for removal of organic material, nitrogen and toxicity from low strength landfill leachates

Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge

Julkaisun otsikon käännös: : Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge

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

Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells

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

Stabilisation of MSWI bottom ash with sulphide-rich anaerobic effluent

Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands

Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines

Sulphate-reducing laboratory-scale high-rate anaerobic reactors for treatment of metal-and sulphate-containing mine wastewater

Testing the near field/far field model performance for prediction of particulate matter emissions in a paint factory

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

The effects of nutrients on natural organic matter (NOM) removal in biological activated carbon (BAC) filtration

The effects of post-treatments and temperature on recovering the methane potential of >2 mm solid fraction of digested cow manure

The evaluation of drinking water treatment performed with HPSEC

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

The methane production of poultry slaughtering residues and effects of pre-treatments on the methane production of poultry feather

Thermophilic anaerobic digestion of industrial orange waste

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

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

Triboelectric charging of fungal spores during resuspension and rebound

Tri-functionality of Fe<sub>3</sub>O<sub>4</sub>-embedded carbon microparticles in microalgae harvesting

Volatile fatty acid production from Kraft mill foul condensate in upflow anaerobic sludge blanket reactors

Weathering of gasification and grate bottom ash in anaerobic conditions

Why social sustainability counts

The impact of corporate social sustainability culture on financial success