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Translated title of the contribution: : Water Services Education presents excellent development cooperation: Discussion
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Translated title of the contribution: : L'oxydation chimique pour la remediation des sols contamines par des composes recalcitrants. Cas de la chlordecone

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KUPERA-kaupunkien teknisen sektorin johto kaipaa toimintakulttuuriin muutosta : Haasteista innovatiivisiin mahdollisuuksiin

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Lack of water engineers hampering development. North-South cooperation in higher education is a must

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Translated title of the contribution: : TTY:ssä panostetaan pakkausalaan

Yhdysvaltain vesihuollossa julkissektori avainasemassa. Haasteina niukentuvien vesivarojen hallinta ja ikääntyvä infrastruktuuri

Translated title of the contribution: : Yhdysvaltain vesihuollossa julkissektori avainasemassa. Haasteina niukentuvien vesivarojen hallinta ja ikääntyvä infrastruktuuri

Missä, missä se kaivo on?

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Resilient Water Services and Systems: The Foundation of Well-Being

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FSES 2013, Finnish Conference of Environmental Sciences, 2-3 May 2013, Tampere, Finland. Proceedings

Water Fountains in the Worldscape

Water Fountains in the Cityscape

Governance in water sector - comparing development in Kenya, Nepal, South Africa and Finland

Environmental history of water : global views on community water supply and sanitation

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Water, Time and European Cities : History matters for the Futures

Finnish water services
Experiences in global perspective

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Hanaa!
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A method for design of sound insulation of glazed balconies against traffic noise

A laboratory listening experiment on subjective and objective rating of impact sound insulation of concrete floors

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Characterization of fine fraction from landfill mining for evaluating methane potential

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Finnish engineering education for the benefit of people and environment

Unsteady computational methods to study jet behaviour in large fluidized bed boiler

Experimental study of oxy-fuel combustion in a drop tube reactor

Rural household electricity load profiles with a load simulation tool

Hybrid barrier films by atmospheric inline plasma deposition on sol-gel coated PE-cardboard

Changing energy production structures and CO₂ emissions in the ASEAN countries: Decomposition analysis of drivers behind the changes

Rural electrification of remote areas - Case studies of two renewable energy projects in Laos and The Philippines

Modeling of autonomous power systems - A mathematical model of a hybrid power system

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"Rocky Fountains" of Keciören, Turkey

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The Fountain A Harbinger of a New Era in Case Tampere

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Kirja-arviointi: Yliopistomme vaarassa hukkaa byrokraatiaan.

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Vieraskynä : Vesialan osaamista kehitettävä yhteiskunnan tarpeista

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Pääkirjoitus : Vesihuoltolaitosten historiat imagon nostajana / Editorial : Relevance of history for current water services management and governance

Translated title of the contribution: : Pääkirjoitus : Vesihuoltolaitosten historiat imagon nostajana / Editorial : Relevance of history for current water services management and governance

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Turning up the heat on printability

Turning up the heat on printability

Book Review: Graham, S. (Ed.), Disrupted Cities: When Infrastructure Fails

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Negotiating water governance: towards cooperation in contentious groundwater recharge projects

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Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential

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Effect of Tissue Conductivity on Internal Body Resistances of Numerical Human Model at Power Frequency

CFD-Modeling of Fume Formation in Kraft Recovery Boilers

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Gender comparison - The university students' exam results in the environmental and energy area

A comparison of occupational electric field exposures during working tasks at 400 kV and 110 kV substations

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The experiences of technical university students on an "environmental health" course

Exposure to Extremely Low Frequency Magnetic Fields: a Personal Monitoring Study in a Large Group of Workers

The technical students' feedback from the course issues on environmental health

Calculation of Induced Electric Fields in Human Models Exposed to ELF Magnetic and Electric Fields

Study of Aerosols of Black Liquor Combustion

Reduction of combustion-generated emissions by means of multiobjective optimization and computational fluid dynamics

Modeling of Fine Particles and Alkali Metal Compounds in Kraft Recovery Boiler Furnace

Examples of occupational ELF electric and magnetic field exposure in Finland

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Comparison between the Occupational ELF magnetic field exposure in Finland and in Italy

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Requirements for rainfall retention and storage in cold climate

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Influence of atmospheric plasma treatment on surface properties and inkjet printability of plastic packaging film

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Atmospheric plasma enhanced hybrid barrier films through reel-to-reel process

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Environmental history of water: Global view of community water supply and sanitation

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Historical development paths and means for winning the challenge of aging water services infrastructure

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Resiliency is the key for sustainable water services.

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Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus

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Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset

Translated title of the contribution: : Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset

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Jätehuollon tekniset vaihtoehdot

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Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

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Paradigma alternativo : O papel das cooperativas e das autoridades locais

Translated title of the contribution: : Paradigma alternativo : O papel das cooperativas e das autoridades locais

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Identification of Wastewater Leaching into the Wells by HPLC-SEC Using UV and Fluorescence Detection

Ja alussa oli vesi

Vesihuollon alkutaival – kehitys 1910 asti

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Laajentumisen aika

Vesihuoltoa kuntiin

Uuden vuosituhannen tiennäyttäjät – HS-Veden alkutaival

Vesi on parasta kylmänä – loppusanat

Kinetics of biomass pyrolysis

UV irradiation for Micropollutant removal from aqueous solution in the presence of H₂O₂

Pintavedestä pohjaveteen ja tekopohjaveteen

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

Water and sanitation services in history: Motivations, expectations and experiences

Asteittain kohti keskitettyä jätevedenpuhdistusta

Translated title of the contribution: : Asteittain kohti keskitettyä jätevedenpuhdistusta

Mihin jätevedenpuhdistusta tarvitaan?

Jätevedenpuhdistuksen ja viemäroinnin vaiheita Helsingissä

Pääkaupunkiseudun moderni jätevedenpuhdistus ja Viikinmäen puhdistamo

Tavoitteena puhdas asuinympäristö

Kohti puhtaampaa Itämerä

Johdanto: vesirikas Riihimäki

Pohjavesi, meidän vesi

Vesilinna, Riihimäen maamerkki

Verkoston varrella

Vesihuollon haasteet ennen ja nyt

Hyvien yhteyksien ja hyvän veden kaupunki

Kaivoista ja käymälöistä kohti kunnallista vesihuoltoa

"Poika, nyt lähdettiin hommiin" - vesilaitos syntyy

Vesihuollon historia pähkinänkuoressa

Asiakkaat, verkostot ja henkilöstö

Vesihuoltoa espoossa ennen kunnallista vesilaitosta

Päijänne-tunneli ja kolmisopimus

Ensimmäiset fuusiosuunnitelmat

Yhdistymishankkeet 2000-luvulla

Loppuluku – haasteita riittää tulevaisuuteen

Palo, jano, terveys, hygienia

Virta

Kajaani, kaupunki joen varrella

Syntymä ja kuolema

Laitoksen perustamiseen johtanut kehitys

Tuli

Pelko ja pelastus

Vesi

Vesilaitoksen alkutaival 1920-luvulta 1970-luvulle

Lähde

Pohjavedenottamot

Saasta
Jätevesien puhdistus ja viemärointi

Kokemus
Kajaanin vesihuollon ammattilaisten kokemukset ja näkemykset

Yhteistyö

Visio
Historian havinaa ja tulevaisuuden haasteita

Fire, Thirst, Health and Hygiene
Root Causes for the Introduction of Water Supply and Sanitation in Kajaani

Introduction: Evolution and futures of water management: strategic decisions, challenges and effectiveness

Tausta: Jätevedenpuhdistuksen alku, tehtävän määrittely ja keskeiset käsitteet

Vesihuollon alku Espoossa: ensimmäiset päätökset

Yhteistyötarpeet ja synergiaedut :
miksi hoitaa kaikkien jätevedet?

Vaatus paremmasta puhdistustuloksesta ohjaa jätevedenpuhdistuksen päätöksentekoa

Espoo päättää siirtyä kärkipaikalle

Tutkimustoiminnalla turvallisuutta ja toimintavarmuutta
päätös panostaa omaan jätevesilaboratorioon

Voimaa historiallisesta yhteistyöstä

Part II: Period of Slow Development. Ch 8. Introduction: pp. 99-102. Conclusions

Part III: Modern Urban Infrastructure. Ch 20 Introduction

Water is the Beginning of All: Global Water Services and Challenges

Conclusions

Conclusions

Expanding rural water supplies in historical perspective: Six cases from Finland and South Africa

Part III: Modern urban infrastructure. Introduction

Part I: Early systems and innovations. Ch 3 Introduction: Early cultures and water

Part III: Modern Urban Infrastructure. Ch 20 Introduction

Conclusions: Does History Matter? Present Water Governance Challenges and Future Implications

Epilogue: Local Solutions Based on Local Conditions

Birth and expansion of public water supply and sanitation in Finland until World War II

Privatisation of water services in historical context, Mid-1800s to 2004

Conclusions

Historical development of water and sanitation services

Comparative analysis and discussion

Long-term strategic decisions in 13 countries and 29 cities

Enhancement in Lifespan of Halide Perovskite Solar Cells

Recycling mine tailings in chemically bonded ceramics - A review

Asset Life Cycle Management in Finnish Water Utilities

Conversion of Solid Waste into Functional Carbon Materials: A Review

Sata vuotta Suomen suurimmasta lavantautiepidemiasta

Valkea kaupunki, mustat vedet

Vesihuolto kaupungistuvissa yhteiskunnissa

Translated title of the contribution: : Water Services in Urbanising Societies

Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems

Microbial electrochemical technologies with the perspective of harnessing bioenergy
Maneuvering towards upscaling

Metals removal and recovery in bioelectrochemical systems
A review

Bilateral collaboration in municipal water and wastewater services in Finland

Ikääntyvä infra - vesihuollon keskeisin haaste

Translated title of the contribution: : Ikääntyvä infra - vesihuollon keskeisin haaste

Vesitalous - monipuolisesti vesialta

Translated title of the contribution: : Vesitalous - monipuolisesti vesialta

Exposure to indoor air pollution across socio-economic groups in high-income countries: A scoping review of the literature and a modelling methodology

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

Ministry of the Environment announces a Guide on Renovation and Repair of Buildings with Moisture and Microbial Damage - From theory to practice

Utilizing Gelatinized Starchy Waste from Rice Noodle Factory as Substrate for L(+)-Lactic Acid Production by Amyolytic Lactic Acid Bacterium *Enterococcus faecium* K-1

Spatial variations in bacterial and archaeal abundance and community composition in boreal forest pine mycorrhizospheres

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

Adjoint-based optimization in the development of low-emission industrial boilers

Towards bioproduction of poly- α -olefins from lignocellulose

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

The most difficult at-fault fatal crashes to avoid with current active safety technology

Highly ductile amorphous oxide at room temperature and high strain rate

Increasing oxygen deficiency changes rare and moderately abundant bacterial communities in coastal soft sediments

Municipal challenges in managing a building with noted health symptoms

Improved water services cooperation through clarification of rules and roles

Transient-state operation of an anoxic biotrickling filter for H₂S removal

The potential of biomethane in replacing fossil fuels in heavy transport-a case study on Finland

Cracking of the End Diaphragm of a Post-tensioned Beam Bridge

Denitrifying microbial communities along a boreal stream with varying land-use

Co-production of 1,3 propanediol and long-chain alkyl esters from crude glycerol

Engineering and kinetic aspects of bacterial uranium reduction for the remediation of uranium contaminated environments

Revisiting the feasibility of biomass-fueled CHP in future energy systems – Case study of the Åland Islands

Long-term performance evaluation of an anoxic sulfur oxidizing moving bed biofilm reactor under nitrate limited conditions

Genesis of Water supply and sanitation services in Finland

Translated title of the contribution: : Vesihuoltopalveluiden synty Suomessa: Editorial

Impacts of short-term temperature fluctuations on biohydrogen production and resilience of thermophilic microbial communities

Scaling up the treatment of the fine fraction from landfill mining

Mass balance and cost structure

Fluidized bed bioreactor for multiple environmental engineering solutions

Particulate Mass and Nonvolatile Particle Number Emissions from Marine Engines Using Low-Sulfur Fuels, Natural Gas, or Scrubbers

The potential of electric trucks – An international commodity-level analysis

Highly compact TiO₂ films by spray pyrolysis and application in perovskite solar cells

Microstructure-property relationships of novel ultra-high strength press hardening steels

Towards the EU emissions targets of 2050

optimal energy renovation measures of Finnish apartment buildings

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

Acetotrophic Activity Facilitates Methanogenesis from LCFA at Low Temperatures

Screening from Mesophilic Inocula

Water Supply and Sanitation in a Green Economy Society

The Case of Finland

A decade of Finnish engineering education for sustainable development

Microalgae grow on source separated human urine in Nordic climate

Outdoor pilot-scale cultivation

Use of factorial experimental design to study the effects of iron and sulfur on growth of *Scenedesmus acuminatus* with different nitrogen sources

Students' Perceived Priorities on Water as a Human Right, Natural Resource, and Multiple Goods

Adaptation of Black Carbon Footprint concept would accelerate mitigation of global warming

CO2 reduction costs and benefits in transport: socio-technical scenarios

Halogen-Bond-Assisted Photoluminescence Modulation in Carbazole-Based Emitter

Anxiety vs reality – Sufficiency of battery electric vehicle range in Switzerland and Finland

Possible Impact of Long and Heavy Vehicles in the United Kingdom—A Commodity Level Approach

Design aspects of all atomic layer deposited TiO₂–Fe₂O₃ scaffold-absorber photoanodes for water splitting

Radon, fungal spores and MVOCs reduction in crawl space house
A case study and crawl space development by hygrothermal modelling

Economic analysis of hydrogen production by methane thermal decomposition
Comparison to competing technologies

UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol

Mechanical properties of recovered municipal solid waste incineration bottom ash: the influence of aging and changes in moisture content

Recycling potential of post-consumer plastic packaging waste in Finland

Valorization of Finnish mining tailings for use in the ceramics industry

Suomen vesihuollon kehitys kansainvälisessä kontekstissa
Translated title of the contribution: : Development of Finnish water services in international perspective

Evaluation of methods for enhancing methane oxidation via increased soil air capacity and nutrient content in simulated landfill soil cover

Landowners' willingness to promote bioenergy production on wasteland – future impact on land use of cutaway peatlands

Sata vuotta vesihuoltoa Suomessa
Translated title of the contribution: : One hundred years of water services in Finland

Vesihuollon ammattilaiset ovat verkostoituneet kautta aikojen
Translated title of the contribution: : Water services professionals have networked throughout history

Understanding sustainable development in Finnish water supply and sanitation services

Carbazole-based small molecule electron donors
Syntheses, characterization, and material properties

Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor

The effect of anode potential on bioelectrochemical and electrochemical tetrathionate degradation

Service Failures of Rural Water Supply Systems in Ethiopia and Their Policy Implications

Influence of TiO₂ compact layer precursor on the performance of perovskite solar cells

Screening biological methods for laboratory scale stabilization of fine fraction from landfill mining

Taking Water Services to the Next Level
A Paradigm Shift?

Long term stability of air processed inkjet infiltrated carbon-based printed perovskite solar cells under intense ultra-violet light soaking

Replacing centralised waste and sanitation infrastructure with local treatment and nutrient recycling
Expert opinions in the context of urban planning

Comparison of air pressure difference, air change rates, and CO₂ concentrations in apartment buildings before and after energy retrofits

Indigenous practices of water management for sustainable services
Case of Borana and Konso, Ethiopia

Methylophilaceae and Hyphomicrobium as target taxonomic groups in monitoring the function of methanol-fed denitrification biofilters in municipal wastewater treatment plants

Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood

Methylophaga and Hyphomicrobium can be used as target genera in monitoring saline water methanol-utilizing denitrification

Comparison of community managed projects and conventional approaches in rural water supply of Ethiopia

Sustainable nutrients recovery and recycling by optimizing the chemical addition sequence for struvite precipitation from raw swine slurries

Combining mineral fractions of recovered MSWI bottom ash: improvement for utilization in civil engineering structures

Glazed spaces
A simplified calculation method for the evaluation of energy savings and interior temperatures

Hydrothermal carbonization of pulp mill streams

Innovative use of recovered municipal solid waste incineration bottom ash as a component in growing media

Effect of particle size and dispersion status on cytotoxicity and genotoxicity of zinc oxide in human bronchial epithelial cells

Parameters Affecting the Upcycling of Waste Cotton and PES/CO Textiles

Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge

HPLC-SEC
a new approach to characterise complex wastewater effluents

Planning land use for biogas energy crop production
The potential of cutaway peat production lands

Plasma-Assisted Fabrication of Fe₂O₃ - Co₃O₄ Nanomaterials as Anodes for Photoelectrochemical Water Splitting

Characterization of fine fraction mined from two Finnish landfills

Accelerated deactivation studies of the natural-gas oxidation catalyst-Verifying the role of sulfur and elevated temperature in catalyst aging

Revisiting cellulase production and redefining current strategies based on major challenges Article reference: RSER5103

Use of diluted urine for cultivation of *Chlorella vulgaris*

High rate autotrophic denitrification in fluidized-bed biofilm reactors

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

A study on raw, torrefied, and steam-exploded wood: Fine grinding, drop-tube reactor combustion tests in N₂/O₂ and CO₂/O₂ atmospheres, particle geometry analysis, and numerical kinetics modeling

Modelling of plastic culvert and road embankment interaction in 3D

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

Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggyery wastewater

Airtightness of residential buildings in Finland

Arsenic in bedrock, soil and groundwater - The first arsenic guidelines for aggregate production established in Finland

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

Evolution of Community-Managed Water Supply Projects From 1994 to the 2010s in Ethiopia

Viewpoint - Paradigm Shift of Water Services in Finland
From Production Mentality to Service Mindset

The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part II
Characterization of Structural Changes by Transmission Electron Microscopy

The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part I
Activity Measurements, Elementary and Surface Analyses

Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggery wastewater

Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration

Subpicosecond to Second Time-Scale Charge Carrier Kinetics in Hematite-Titania Nanocomposite Photoanodes

Catalytic effect of Ca and K on CO₂ gasification of spruce wood char

Characteristics and agronomic usability of digestates from laboratory digesters treating food waste and autoclaved food waste

Short Global History of Fountains

Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples

Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components

Fluidized-bed denitrification of mining water tolerates high nickel concentrations

Appropriate pricing policy needed worldwide for improving water services infrastructure

Tighter contracts or more trust? Outsourcing in Finnish water utilities

Electricity generation from tetrathionate in microbial fuel cells by acidophiles

Social Norms in Water Services
Exploring the Fair Price of Water

Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors

Vapor phase processing of α -Fe₂O₃ photoelectrodes for water splitting
An insight into the structure/property interplay

Pt-functionalized Fe₂O₃ photoanodes for solar water splitting
the role of hematite nano-organization and the platinum redox state

Stabilization of fine fraction from landfill mining in anaerobic and aerobic laboratory leach bed reactors

Methane oxidation potential of boreal landfill cover materials: The governing factors and enhancement by nutrient manipulation

To fractionate municipal solid waste incineration bottom ash: Key for utilisation?

Utility–Customer Communication
The Case of Water Utilities

Fe₂O₃-TiO₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation

Acid Leaching of Cu and Zn from a Smelter Slag with a Bacterial Consortium

Groundwater as a source of conflict and cooperation
Towards creating mutual gains in a Finnish water supply project

Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina
Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen

Resilient Asset Management and Governance for Deteriorating Water Services Infrastructure

Kohti tasapuolisempaa tutkimuksen arviointia
Pääkirjoitus

Translated title of the contribution: : Towards better balanced research assessment: Editorial

Importance and challenges of sharing experiences among an international and interdisciplinary group of doctoral students

Numerical modeling of fine particle and deposit formation in a recovery boiler

Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose

Inhibitory effects of substrate and soluble end products on biohydrogen production of the alkalithermophile *Caloramator celer*
Kinetic, metabolic and transcription analyses

Assessment of metabolic flux distribution in the thermophilic hydrogen producer *Caloramator celer* as affected by external pH and hydrogen partial pressure

Rewiring the wax ester production pathway of *Acinetobacter baylyi* ADP1

An experimental study and numerical modeling of combusting two coal chars in a drop-tube reactor: A comparison between N₂/O₂, CO₂/O₂, and N₂/CO₂/O₂ atmospheres

Metabolic engineering of *Acinetobacter baylyi* ADP1 for improved growth on gluconate and glucose

Influence of temperature and pretreatments on the anaerobic digestion of wastewater grown microalgae in a laboratory-scale accumulating-volume reactor

The effect of torrefaction on the chlorine content and heating value of eight woody biomass samples

Lähteet Suomen vesihuollossa

Translated title of the contribution: : Lähteet Suomen vesihuollossa

Simultaneous detection of three antiviral and four antibiotic compounds in source-separated urine with liquid chromatography

Inverse infrastructures: self-organization in the water services

Anaerobic digestion of autoclaved and untreated food waste

E-sail test payload of the ESTCube-1 nanosatellite

Dynamics of microbial communities in untreated and autoclaved food waste anaerobic digesters