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Dynamic decoupling of biomass and wax ester biosynthesis in *Acinetobacter baylyi* by an autonomously regulated switch

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Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit

The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients

Thiazolidine chemistry revisited: a fast, efficient and stable click-type reaction at physiological pH

Electroencephalographic signals during anesthesia recorded from surface and depth electrodes

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Improved fatty aldehyde and wax ester production by overexpression of fatty acyl-CoA reductases

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Growth and wax ester production of an *Acinetobacter baylyi* ADP1 mutant deficient in exopolysaccharide capsule synthesis

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Chemical and bacterial leaching of metals from a smelter slag in acid solutions

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Julkaisun otsikon käännös: : Biohydrogen production in extreme conditions: A comprehensive study of the fermentative metabolism of a polyextremophilic bacterium

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

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

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Julkaisun otsikon käännös: : Rewiring the Wax Ester Production Pathway of *Acinetobacter baylyi* ADP1

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Julkaisun otsikon käännös: : Application of Computational Methods for Fermentative Hydrogen Production

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Julkaisun otsikon käännös: : A geographical information system (GIS) based methodology for determination of potential biomasses and sites for biogas plants in southern Finland

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Julkaisun otsikon käännös: : Bacterial and chemical leaching of chalcopyrite concentrates as affected by the redox potential and ferric/ferrous iron ratio at 22 C

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Julkaisun otsikon käännös: : Biosensors, Antibiotics and Food

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Julkaisun otsikon käännös: : Effect of arsenic on nitrification of simulated mining water

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Julkaisun otsikon käännös: : Fluidized-bed denitrification for mine waters. Part II: effects of Ni and Co

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Julkaisun otsikon käännös: : Fluorescent protein-based FRET sensor for intracellular monitoring of redox status in bacteria at single cell level

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Julkaisun otsikon käännös: : In vitro bioluminescence used as a method for real-time inhibition zone testing for antibiotic-releasing composites

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Julkaisun otsikon käännös: : Lamella dissolved air flotation treatment of fish farming effluents as a part of an integrated farming and effluent treatment concept

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Julkaisun otsikon käännös: : Mesophilic and thermophilic anaerobic laboratory-scale digestion of *Nannochloropsis* microalga residues

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Murein lytic enzyme TgaA of Bifidobacterium bifidum MIMBb75 modulates dendritic cell maturation through its cysteine- and histidine-dependent amidohydrolase/peptidase (CHAP) amidase domain

Julkaisun otsikon käännös: : Murein Lytic Enzyme TgaA of Bifidobacterium bifidum MIMBb75 Modulates Dendritic Cell Maturation through Its Cysteine- and Histidine-Dependent Amidohydrolase/Peptidase (CHAP) Amidase Domain

Novel design of a multitube microbial fuel cell (UM2FC) for energy recovery and treatment of membrane concentrates

Julkaisun otsikon käännös: : Novel design of a multitube microbial fuel cell (UM2FC) for energy recovery and treatment of membrane concentrates

Novel metabolic features in Acinetobacter baylyi ADP1 revealed by a multiomics approach

Julkaisun otsikon käännös: : Novel metabolic features in Acinetobacter baylyi ADP1 revealed by a multiomics approach

TgaA, a VirB1-like component belonging to a putative type IV secretion system of Bifidobacterium bifidum MIMBb75

Julkaisun otsikon käännös: : TgaA, a VirB1-Like Component Belonging to a Putative Type IV Secretion System of Bifidobacterium bifidum MIMBb75.

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Julkaisun otsikon käännös: : Upgrading landfill gas using a high pressure water absorption process

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Julkaisun otsikon käännös: : Non-sterile process for biohydrogen and 1,3-propanediol production from raw glycerol

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Julkaisun otsikon käännös: : Prospecting hydrogen production of Escherichia coli by metabolic network modeling

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

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Julkaisun otsikon käännös: : Hydrogen and methane production in extreme thermophilic conditions in two-stage (upflow anaerobic sludge bed) UASB reactor system

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Julkaisun otsikon käännös: : Organic silicon compounds in biogases produced from grass silage, grass and maize in laboratory batch assays

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Julkaisun otsikon käännös: : Biogas upgrading and compression

Anaerobic conversion of microalgal biomass to sustainable energy carriers - A review

Julkaisun otsikon käännös: : Anaerobic conversion of microalgal biomass to sustainable energy carriers - A review

An in vitro study of composites of poly(L-lactide-co-e-caprolactone),  $\beta$ -tricalcium phosphate and ciprofloxacin intended for local treatment of osteomyelitis

Julkaisun otsikon käännös: : An in vitro study of composites of poly(L-lactide-co-e-caprolactone),  $\beta$ -tricalcium phosphate and ciprofloxacin intended for local treatment of osteomyelitis

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Julkaisun otsikon käännös: : Antimicrobial assay optimization and validation for HTS in 384-well format using a bioluminescent E. coli K-12 strain

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Julkaisun otsikon käännös: : Biomethane production from maize and liquid cow manure - Effect of share of maize, post-methanation potential and digestate characteristics

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Julkaisun otsikon käännös: : Case study on sampling, processing and characterization of landfilled municipal solid waste in the view of landfill mining

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Julkaisun otsikon käännös: : CO<sub>2</sub> capture from biogas: absorbent selection

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Column bioleaching of low grade copper sulfide ore at extreme conditions for most mineral processing bacteria  
Julkaisun otsikon käännös: : Column bioleaching of low grade copper sulfide ore at extreme conditions for most mineral processing bacteria

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Julkaisun otsikon käännös: : Determination of waste decay rate for a large Finnish landfill by calibrating methane generation models on the basis of methane recovery and emissions

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Julkaisun otsikon käännös: : Distribution of dehalogenation activity in subseafloor sediments of the Nankai Trough subduction zone

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Julkaisun otsikon käännös: : Draft genome sequence of the hydrogen- and ethanol-producing anaerobic alkalithermophilic bacterium *Caloramator celer*.

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Julkaisun otsikon käännös: : Effect of NA-chloride on the bioleaching of a chalcopyrite concentrate in shake flasks and stirred tank bioreactors

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Julkaisun otsikon käännös: : Electricity generation from young landfill leachate in a microbial fuel cell with a new electrode material

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Fluidized-bed denitrification for mine waters. Part I: low pH and temperature operation

Julkaisun otsikon käännös: : Fluidized-bed denitrification for mine waters. Part I: low pH and temperature operation

Generation of heat and power from biogas for stationary applications: boilers, gas engines and turbines, combined heat and power (CHP) plants and fuel cells

Julkaisun otsikon käännös: : Generation of heat and power from biogas for stationary applications: boilers, gas engines and turbines, combined heat and power (CHP) plants and fuel cells

Genome Sequence of Halanaerobium saccharolyticum subsp. saccharolyticum Strain DSM 6643T, a Halophilic Hydrogen-Producing Bacterium

Julkaisun otsikon käännös: : Genome Sequence of Halanaerobium saccharolyticum subsp. saccharolyticum Strain DSM 6643T, a Halophilic Hydrogen-Producing Bacterium

Heat stress adaptation induces cross-protection against lethal acid stress conditions in Arcobacter butzleri but not in Campylobacter jejuni

Julkaisun otsikon käännös: : Heat stress adaptation induces cross-protection against lethal acid stress conditions in Arcobacter butzleri but not in Campylobacter jejuni

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Julkaisun otsikon käännös: : Impact of heavy metals on denitrification of simulated mining wastewaters

Lipid profile characterization of wastewaters from different origins

Julkaisun otsikon käännös: : Lipid profile characterization of wastewaters from different origins

Modification of the Escherichia coli metabolic model LAF1260 based on anaerobic experiments

Julkaisun otsikon käännös: : Modification of the Escherichia coli metabolic model LAF1260 based on anaerobic experiments

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Julkaisun otsikon käännös: : Profiling of bacterial community in a full-scale aerobic composting plant

Screening of novel plants for biogas production in northern conditions

Julkaisun otsikon käännös: : Screening of novel plants for biogas production in northern conditions

S-Layer protein mediates the stimulatory effect of lactobacillus helveticus MIMLh5 on innate immunity

Julkaisun otsikon käännös: : S-Layer protein mediates the stimulatory effect of lactobacillus helveticus MIMLh5 on innate immunity

Suppression of methanogenesis in cellulose-fed microbial fuel cells in relation to performance, metabolite formation, and microbial population

Julkaisun otsikon käännös: : Suppression of methanogenesis in cellulose-fed microbial fuel cells in relation to performance, metabolite formation, and microbial population

Methane production from maize in Finland - Screening for different maize varieties and plant parts

Julkaisun otsikon käännös: : Methane production from maize in Finland - Screening for different maize varieties and plant parts

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

Julkaisun otsikon käännös: : Thermophilic anaerobic digestion of pulp and paper mill primary sludge and co-digestion of primary and secondary sludge

Leachate formation and characteristics from gasification and grate incineration bottom ash under landfill conditions

Julkaisun otsikon käännös: : Leachate formation and characteristics from gasification and grate incineration bottom ash under landfill conditions

1,3-Propanediol production and tolerance of a halophilic fermentative bacterium, *Halanaerobium saccharolyticum* subsp *saccharolyticum*

Julkaisun otsikon käännös: : 1,3-Propanediol production and tolerance of a halophilic fermentative bacterium, *Halanaerobium saccharolyticum* subsp *saccharolyticum*

Bioconversion of crude glycerol from biodiesel production to hydrogen

Julkaisun otsikon käännös: : Bioconversion of crude glycerol from biodiesel production to hydrogen

Bioelectricity production using a new electrode in a microbial fuel cell

Julkaisun otsikon käännös: : Bioelectricity production using a new electrode in a microbial fuel cell

Bioluminescence-based identification of nisin producers - A rapid and simple screening method for nisinogenic bacteria in food samples

Julkaisun otsikon käännös: : Bioluminescence-based identification of nisin producers - A rapid and simple screening method for nisinogenic bacteria in food samples

Comparison of mesophilic and thermophilic anaerobic hydrogen production by hot spring enrichment culture

Julkaisun otsikon käännös: : Comparison of mesophilic and thermophilic anaerobic hydrogen production by hot spring enrichment culture

Dark fermentative hydrogen production from neutralized acid hydrolysates of conifer pulp

Julkaisun otsikon käännös: : Dark fermentative hydrogen production from neutralized acid hydrolysates of conifer pulp

Dark fermentative hydrogen production from xylose by a hot spring enrichment culture

Julkaisun otsikon käännös: : Dark fermentative hydrogen production from xylose by a hot spring enrichment culture

Direct fermentation of sweet potato to produce maximal hydrogen and ethanol

Julkaisun otsikon käännös: : Direct fermentation of sweet potato to produce maximal hydrogen and ethanol

Effect of additives on process stability of mesophilic anaerobic monodigestion of pig slaughterhouse waste

Julkaisun otsikon käännös: : Effect of additives on process stability of mesophilic anaerobic monodigestion of pig slaughterhouse waste

Effect of effluent recycle ratio in a continuous anaerobic biohydrogen production system

Julkaisun otsikon käännös: : Effect of effluent recycle ratio in a continuous anaerobic biohydrogen production system

Energy Demands of Nitrogen Supply in Mass Cultivation of Two Commercially Important Microalgal Species, *Chlorella vulgaris* and *Dunaliella tertiolecta*

Julkaisun otsikon käännös: : Energy Demands of Nitrogen Supply in Mass Cultivation of Two Commercially Important Microalgal Species, *Chlorella vulgaris* and *Dunaliella tertiolecta*

Enhancing biohydrogen production of the alkalithermophile *Thermobrachium celere*

Julkaisun otsikon käännös: : Enhancing biohydrogen production of the alkalithermophile *Thermobrachium celere*

Eukaryotic and prokaryotic microbial communities during microalgal biomass production

Julkaisun otsikon käännös: : Eukaryotic and prokaryotic microbial communities during microalgal biomass production

Fluidized-bed bioreactor applications for the treatment of metal-, sulfate- and nitrate-contaminated mine waters

Julkaisun otsikon käännös: : Fluidized-bed bioreactor applications for the treatment of metal-, sulfate- and nitrate-contaminated mine waters

Growth of *Chlorella vulgaris* and associated bacteria in photobioreactors

Julkaisun otsikon käännös: : Growth of *Chlorella vulgaris* and associated bacteria in photobioreactors

Growth of *Dunaliella tertiolecta* and associated bacteria in photobioreactors

Julkaisun otsikon käännös: : Growth of *Dunaliella tertiolecta* and associated bacteria in photobioreactors

Hydrogen and volatile fatty acid production during fermentation of cellulosic substrates by a thermophilic consortium at 50 and 60 °C

Julkaisun otsikon käännös: : Hydrogen and volatile fatty acid production during fermentation of cellulosic substrates by a thermophilic consortium at 50 and 60 °C

Hydrogenic and methanogenic fermentation of birch and conifer pulps

Julkaisun otsikon käännös: : Hydrogenic and methanogenic fermentation of birch and conifer pulps

In Vitro functional and immunomodulatory properties of the *Lactobacillus helveticus* MIMLh5-*Streptococcus salivarius* ST3 association that are relevant to the development of a Pharyngeal probiotic product

Julkaisun otsikon käännös: : In Vitro functional and immunomodulatory properties of the *Lactobacillus helveticus* MIMLh5-*Streptococcus salivarius* ST3 association that are relevant to the development of a Pharyngeal probiotic product

Landfill gas upgrading with pilot-scale water scrubber: Performance assessment with adsorption water recycling

Julkaisun otsikon käännös: : Landfill gas upgrading with pilot-scale water scrubber: Performance assessment with adsorption water recycling

Ligninolytic enzymes improve soil DNA purity: Solution to methodological challenges of soil metagenomics

Julkaisun otsikon käännös: : Ligninolytic enzymes improve soil DNA purity: Solution to methodological challenges of soil metagenomics

Mesophilic and thermophilic anaerobic co-digestion of rendering plant and slaughterhouse wastes

Julkaisun otsikon käännös: : Mesophilic and thermophilic anaerobic co-digestion of rendering plant and slaughterhouse wastes

Microbial community dynamics during a demonstration-scale bioheap leaching operation

Julkaisun otsikon käännös: : Microbial community dynamics during a demonstration-scale bioheap leaching operation

Monitoring alkane degradation by single biobrick integration to an optimal cellular framework

Julkaisun otsikon käännös: : Monitoring alkane degradation by single biobrick integration to an optimal cellular framework

Processing and sustained in vitro release of rifampicin containing composites to enhance the treatment of osteomyelitis

Julkaisun otsikon käännös: : Processing and sustained in vitro release of rifampicin containing composites to enhance the treatment of osteomyelitis

Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells

Julkaisun otsikon käännös: : Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells

Seed inocula for biohydrogen production from biodiesel solid residues

Julkaisun otsikon käännös: : Seed inocula for biohydrogen production from biodiesel solid residues

Silage as source of bacteria and electrons for dark fermentative hydrogen production

Julkaisun otsikon käännös: : Silage as source of bacteria and electrons for dark fermentative hydrogen production

Synthesis, characterization and antimicrobial activity of arylhydrazones of methylene active compounds

Julkaisun otsikon käännös: : Synthesis, characterization and antimicrobial activity of arylhydrazones of methylene active compounds

Toxicity of waste gasification bottom ash leachate

Julkaisun otsikon käännös: : Toxicity of waste gasification bottom ash leachate

Archaeal communities in boreal forest tree rhizospheres respond to changing soil temperatures

Julkaisun otsikon käännös: : Archaeal communities in boreal forest tree rhizospheres respond to changing soil temperatures

A thermophilic microbial fuel cell design

Julkaisun otsikon käännös: : A thermophilic microbial fuel cell design

Avaliacao eletroquimica de residuos de biolixiviacao da calcopirita (CuFeS<sub>2</sub>) por acidithiobacillus ferrooxidans

Julkaisun otsikon käännös: : Avaliacao eletroquimica de residuos de biolixiviacao da calcopirita (CuFeS<sub>2</sub>) por acidithiobacillus ferrooxidans

Bidirectional fluorescence resonance energy transfer (FRET) in mutated and chemically modified yellow fluorescent protein (YFP)

Julkaisun otsikon käännös: : Bidirectional fluorescence resonance energy transfer (FRET) in mutated and chemically modified yellow fluorescent protein (YFP)

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Julkaisun otsikon käännös: : Biogenic hydrogen and methane production from *Chlorella vulgaris* and *Dunaliella tertiolecta* biomass

Biogenic hydrogen and methane production from reed canary grass

Julkaisun otsikon käännös: : Biogenic hydrogen and methane production from reed canary grass

Bioleaching and recovery of metals from final slag waste of the copper smelting industry

Julkaisun otsikon käännös: : Bioleaching and recovery of metals from final slag waste of the copper smelting industry

Bioleaching of flotation by-products of talc production permits the separation of nickel and cobalt from iron and arsenic

Julkaisun otsikon käännös: : Bioleaching of flotation by-products of talc production permits the separation of nickel and cobalt from iron and arsenic

Cell-to-cell diversity in protein levels of a gene driven by a tetracycline inducible promoter

Julkaisun otsikon käännös: : Cell-to-cell diversity in protein levels of a gene driven by a tetracycline inducible promoter

Closing the 1,3-propanediol route enhances hydrogen production from glycerol by *Halanaerobium saccharolyticum* subsp. *saccharolyticum*

Julkaisun otsikon käännös: : Closing the 1,3-propanediol route enhances hydrogen production from glycerol by *Halanaerobium saccharolyticum* subsp. *saccharolyticum*

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Julkaisun otsikon käännös: : Construction and Modelling of an Artificial Microecosystem

Dynamics of Gene Expression under Tetracycline Inducible Promoters

Julkaisun otsikon käännös: : Dynamics of Gene Expression under Tetracycline Inducible Promoters

Effects of heat treatment on hydrogen production potential and microbial community of thermophilic compost enrichment cultures

Julkaisun otsikon käännös: : Effects of heat treatment on hydrogen production potential and microbial community of thermophilic compost enrichment cultures

Fermentative hydrogen production by *Clostridium butyricum* and *Escherichia coli* in pure and cocultures  
Julkaisun otsikon käännös: : Fermentative hydrogen production by *Clostridium butyricum* and *Escherichia coli* in pure and cocultures

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Julkaisun otsikon käännös: : Fermentative hydrogen production from different sugars by *Citrobacter* sp. CMC-1 in batch culture

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Improved triacylglycerol production in *Acinetobacter baylyi* ADP1 by metabolic engineering  
Julkaisun otsikon käännös: : Improved triacylglycerol production in *Acinetobacter baylyi* ADP1 by metabolic engineering

Microbiology and geochemistry of mine tailings amended with organic carbon for passive treatment of pore water  
Julkaisun otsikon käännös: : Microbiology and geochemistry of mine tailings amended with organic carbon for passive treatment of pore water

Molecular methods for characterizing mixed microbial communities in hydrogen-fermenting systems  
Julkaisun otsikon käännös: : Molecular methods for characterizing mixed microbial communities in hydrogen-fermenting systems

Real-Time monitoring of intracellular wax ester metabolism  
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Simple enrichment system for hydrogen producers  
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Thermophilic, anaerobic co-digestion of microalgal biomass and cellulose for H<sub>2</sub> production  
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Thermophilic hydrogen production from cellulose with rumen fluid enrichment cultures: Effects of different heat treatments  
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Julkaisun otsikon käännös: : Weathering of biotite in *Acidithiobacillus ferrooxidans* cultures

Weathering of phlogopite in simulated bioleaching solutions  
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Bioreactor applications utilizing mesophilic sulfate-reducing bacteria for treatment of mine wastewaters at 9-35 oC  
Julkaisun otsikon käännös: : Bioreactor applications utilizing mesophilic sulfate-reducing bacteria for treatment of mine wastewaters at 9-35 oC

Acid bioleaching of solid waste materials from copper, steel and recycling industries  
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A dairy bacterium displays in vitro probiotic properties for the pharyngeal mucosa by antagonizing group A streptococci and modulating the immune response

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Alkalizing reactions streamline cellular metabolism in acidogenic microorganisms

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Altered mineralogy associated with stirred tank bioreactor leaching of a black schist ore

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A novel biosensor for the detection of zearalenone family mycotoxins in milk

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Application of a luminescent bacterial biosensor for the detection of tetracyclines in routine analysis of poultry muscle samples

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Attenuation of pollutants in sanitary sewer overflow: Comparative evaluation of treatment with fixed media bioreactors

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Biodegradation of aqueous organic matter over seasonal changes: bioreactor experiments with indigenous lake water bacteria

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Biohydrogen and 1,3-Propanediol production using halophilic fermentative bacteria

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Biological hydrogen sulfide production in an ethanol-lactate fed fluidized-bed bioreactor

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Biooxidation and precipitation for iron and sulfate removal from heap bioleaching effluent streams

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Characterization of jarosites produced by chemical synthesis over a temperature gradient from 2 to 40 °C

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Characterization of secondary arsenic-bearing precipitates formed in the bioleaching of enargite by *Acidithiobacillus ferrooxidans*

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Direction of glucose fermentation towards hydrogen or ethanol production through on-line pH control

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Effect of changing temperature on anaerobic hydrogen production and microbial community composition in an open-mixed culture bioreactor

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Enhancement of anaerobic hydrogen production by iron and nickel

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[FeFe]-hydrogenase gene quantification and melting curve analysis from hydrogen-fermenting bioreactor samples

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Formation of Fe-sulfides in cultures of sulfate-reducing bacteria

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Hydrogenotrophic sulfate reduction in a gas-lift bioreactor operated at 9°C

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Hydrogen production from glycerol using halophilic fermentative bacteria

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Hydrolysis and metabolism of cellulose by an anaerobic, thermophilic consortium

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In vitro bioassays in bioactivity and residue assessments

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Kehittämishanke: Tenttiin lukemisesta jatkuvaan oppimiseen - Tapausesimerkinä Tampereen teknillisen yliopiston Nanobioteknologian opintojakso

Microbial community structure in anaerobic co-digestion of grass silage and cow manure in a laboratory continuously stirred tank reactor

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Mine wastewater treatment using Phalaris arundinacea plant material hydrolyzate as substrate for sulfate-reducing bioreactor

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Molecular methods for studying mixed hydrogen-fermenting microbial communities

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Oral bacteria as potential probiotics for the pharyngeal mucosa

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Oxidative dissolution of bornite by Acidithiobacillus ferrooxidans

Julkaisun otsikon käännös: : Oxidative dissolution of bornite by Acidithiobacillus ferrooxidans

Predictive modelling of Fe(III) precipitation in iron removal process for bioleaching circuits

Julkaisun otsikon käännös: : Predictive modelling of Fe(III) precipitation in iron removal process for bioleaching circuits

Pretreatment of turkey fat-containing wastewater in coarse sand and gravel/coarse sand bioreactors

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Silage supports sulfate reduction in the treatment of metals- and sulfate-containing waste waters

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Sulfate-reducing fluidized-bed bioreactor processes for acidic metal- and sulfate-containing waters

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TEVA-tutkimusprojekti jatkaa tekopohjavesitiedon täydentämistä

The effect of sub-optimal temperature on specific sulfidogenic activity of mesophilic SRB in an H<sub>2</sub>-fed membrane bioreactor

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Two recombinant peptides, SpStrongylocins 1 and 2, from Strongylocentrotus purpuratus, show antimicrobial activity against Gram-positive and Gram-negative bacteria

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Comparison of the total mercury content in sediment samples with a mercury sensor bacteria test and *Vibrio fischeri* toxicity test

Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria

A recombinant *Escherichia coli* sensor strain for the detection of tetracyclines

Fractionation of DNA with Sephacryl S-1000(R)

Time-resolved europium fluorescence in enzyme activity measurements  
a sensitive protease assay

Simultaneous extraction and combined bioluminescent assay of NAD<sup>+</sup> and NADH