

**Compacted bentonite as a source of substrates for sulfate-reducing microorganisms in a simulated excavation-damaged zone of a spent nuclear fuel repository**

Maanoja, S., Lakaniemi, A. M., Lehtinen, L., Salminen, L., Auvinen, H., Kokko, M., Palmroth, M., Muuri, E. & Rintala, J., 1 Oct 2020, In : APPLIED CLAY SCIENCE. 196, 13 p., 105746.

Research output: Contribution to journal > Article > Scientific > peer-review

**Quantifying the pore structure of different biochars and their impacts on the water retention properties of Sphagnum moss growing media**

Turunen, M., Hyväluoma, J., Heikkinen, J., Keskinen, R., Kaseva, J., Hannula, M. & Rasa, K., 2020, In : Biosystems Engineering. 191, p. 96-106 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Biogas and combustion potential of fresh reed canary grass grown on cutover peatland**

Laasasenaho, K., Renzi, F., Karjalainen, H., Kaparaju, P., Konttinen, J. & Rintala, J., 2020, In : Mires and Peat. 26, 9 p., 10.

Research output: Contribution to journal > Article > Scientific > peer-review

**Formation and use of biogenic jarosite carrier for high-rate iron oxidising biofilms**

Ahoranta, S., Hulkkonen, H., Salminen, T., Kuula, P., Puhakka, J. A. & Lakaniemi, A. M., 2020, In : Research in Microbiology. 9 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Cultivation and safety aspects of Arthrospira platensis (Spirulina) grown with struvite recovered from anaerobic digestion plant as phosphorus source**

Markou, G., Arapoglou, D., Eliopoulos, C., Balafoutis, A., Taddeo, R., Panara, A. & Thomaidis, N., Dec 2019, In : Algal Research. 44

Research output: Contribution to journal > Article > Scientific > peer-review

**Bioaugmentation enhances dark fermentative hydrogen production in cultures exposed to short-term temperature fluctuations**

Okonkwo, O., Escudié, R., Bernet, N., Mangayil, R., Lakaniemi, A-M. & Trably, E., 21 Nov 2019, In : Applied Microbiology and Biotechnology. 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Resilient performance of an anoxic biotrickling filter for hydrogen sulphide removal from a biogas mimic: Steady, transient state and neural network evaluation**

Watsuntorn, W., Khanongnuch, R., Chulalaksananukul, W., Rene, E. R. & Lens, P. N. L., 18 Nov 2019, In : Journal of Cleaner Production. p. 119351

Research output: Contribution to journal > Article > Scientific > peer-review

**Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells**

Salunke, J., Singh, A., He, D., Duc Pham, H., Bai, Y., Wang, L., Dahlström, S., Nyman, M., Manzhos, S., Feron, K., Österbacka, R., Priimägi, A., Vivo, P. & Sonar, P., 9 Nov 2019, In : Organic Electronics.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Mangayil, R., Efimova, E., Konttinen, J. & Santala, V., 11 Jul 2019, In : New Biotechnology. 53, p. 81-89 9 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Selective enrichment of biocatalysts for bioelectrochemical systems: A critical review**

Chatterjee, P., Dessi, P., Kokko, M., Lakaniemi, A-M. & Lens, P., Jul 2019, In : Renewable and Sustainable Energy Reviews. 109, p. 10-23 14 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Semi-continuous mono-digestion of OFMSW and Co-digestion of OFMSW with beech sawdust: Assessment of the maximum operational total solid content**

Pastor-Poquet, V., Papirio, S., Trably, E., Rintala, J., Escudié, R. & Esposito, G., 1 Feb 2019, In : Journal of Environmental Management. 231, p. 1293-1302 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Storing of exoelectrogenic anolyte for efficient microbial fuel cell recovery**

Haavisto, J. M., Lakaniemi, A-M. & Puhakka, J. A., 2019, In : Environmental Technology. 40, 11

Research output: Contribution to journal › Article › Scientific › peer-review

#### **CH<sub>4</sub> oxidation in a boreal lake during the development of hypolimnetic hypoxia**

Saarela, T., Rissanen, A. J., Ojala, A., Pumpanen, J., Aalto, S. L., Tiirola, M., Vesala, T. & Jäntti, H., 2019, In : Aquatic Sciences. 82, 2, 12 p., 19.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Carbon storage change and $\delta^{13}\text{C}$ transitions of peat columns in a partially forestry-drained boreal bog**

Nykänen, H., Rissanen, A. J., Turunen, J., Tahvanainen, T. & Simola, H., 2019, In : Plant and Soil. 14 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **How and why does willow biochar increase a clay soil water retention capacity?**

Rasa, K., Heikkinen, J., Hannula, M., Arstila, K., Kulju, S. & Hyväluoma, J., 1 Dec 2018, In : Biomass and Bioenergy. 119, p. 346-353 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Bi-directional cell-pericellular matrix interactions direct stem cell fate**

Ferreira, S. A., Motwani, M. S., Faull, P. A., Seymour, A. J., Yu, T. T. L., Enayati, M., Taheem, D. K., Salzlechner, C., Haghghi, T., Kania, E. M., Oommen, O. P., Ahmed, T., Loaiza, S., Parzych, K., Dazzi, F., Varghese, O. P., Festy, F., Grigoriadis, A. E., Auner, H. W., Snijders, A. P., Bozec, L. & Gentleman, E., Dec 2018, In : Nature Communications. 9, 1, 12 p., 4049.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **FAIMS analysis of urine gaseous headspace is capable of differentiating ovarian cancer**

Niemi, R. J., Roine, A. N., Eräviita, E., Kumpulainen, P. S., Mäenpää, J. U. & Oksala, N., Dec 2018, In : Gynecologic Oncology. 151, 3, p. 519-524 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Uusheimo, S., Huotari, J., Tulonen, T., Aalto, S. L., Rissanen, A. J. & Arvola, L., 20 Nov 2018, In : Environmental science & technology. 52, 22, p. 13343-13350 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Tan, L. C., Nancharaiah, Y. V., Lu, S., van Hullebusch, E. D., Gerlach, R. & Lens, P. N. L., 1 Nov 2018, In : Chemosphere. 211, p. 684-693 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Chatterjee, P., Lahtinen, L., Kokko, M. & Rintala, J., 15 Oct 2018, In : Water Research. 143, p. 209-217 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Temperature control as key factor for optimal biohydrogen production from thermomechanical pulping wastewater**

Dessi, P., Porca, E., Lakaniemi, A-M., Collins, G. & Lens, P. N. L., 15 Sep 2018, In : Biochemical Engineering Journal. 137, p. 214-221 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Performance of a biotrickling filter for the anaerobic utilization of gas-phase methanol coupled to thiosulphate reduction and resource recovery through volatile fatty acids production**

Eregowda, T., Matanhike, L., Rene, E. R. & Lens, P. N. L., 1 Sep 2018, In : *Bioresource Technology*. 263, p. 591-600 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Sensory properties of Nordic edible mushrooms**

Aisala, H., Laaksonen, O., Manninen, H., Raittola, A., Hopia, A. & Sandell, M., 1 Jul 2018, In : *Food Research International*. 109, p. 526-536 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Kainulainen, T. P., Sirviö, J. A., Sethi, J., Hukka, T. I. & Heiskanen, J. P., 21 Feb 2018, In : *Macromolecules*. 51, 5, p. 1822-1829 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Resistant ammonia-oxidizing archaea endure, but adapting ammonia-oxidizing bacteria thrive in boreal lake sediments receiving nutrient-rich effluents**

Aalto, S. L., Saarenheimo, J., Mikkonen, A., Rissanen, A. J. & Tirola, M., 2018, In : *Environmental Microbiology*. 20, 10, p. 3616-3628 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Nykänen, H., Mpamah, P. A. & Rissanen, A. J., 2018, In : *Isotopes in Environmental and Health Studies*. 54, 6

Research output: Contribution to journal › Article › Scientific › peer-review

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

Sippola, R. J., Hadipour, A., Kastinen, T., Vivo, P., Hukka, T. I., Aernouts, T. & Heiskanen, J. P., 8 Nov 2017, In : *Dyes and Pigments*. 150, p. 79-88 10 p., j.dyepig.2017.11.014.

Research output: Contribution to journal › Article › Scientific › peer-review

**Impact of film thickness of ultra-thin dip-coated compact TiO<sub>2</sub> layers on the performance of mesoscopic perovskite solar cells**

Masood, M. T., Weinberger, C., Sarfraz, J., Rosqvist, E., Sandén, S., Sandberg, O., Vivo, P., Hashmi, G., Lund, P. D., Österbacka, R. & Smått, J.-H., 31 May 2017, In : *ACS Applied Materials and Interfaces*. 9, 21, p. 17906-17913

Research output: Contribution to journal › Article › Scientific › peer-review

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

Ledezma, P., Jermakka, J., Keller, J. & Freguia, S., 14 Mar 2017, In : *Environmental Science and Technology Letters*. 4, 3, p. 119-124 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Anaerobic batch conversion of pine wood torrefaction condensate**

Doddapaneni, T. R. K. C., Praveenkumar, R., Tolvanen, H., Palmroth, M. R. T., Konttinen, J. & Rintala, J., Feb 2017, In : *Bioresource Technology*. 225, p. 299-307 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**High-rate thiosulfate-driven denitrification at pH lower than 5 in fluidized-bed reactor**

Di Capua, F., Lakaniemi, A.-M., Puhakka, J. A., Lens, P. N. L. & Esposito, G., Feb 2017, In : *Chemical Engineering Journal*. 310, Part 1, p. 282-291 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Mönkäre, T. J., Palmroth, M. R. T. & Rintala, J. A., 2017, In : *Waste Management*. 60, p. 739-747 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Microbial community response on wastewater discharge in boreal lake sediments**

Saarenheimo, J., Aalto, S. L., Rissanen, A. J. & Tiirola, M., 2017, In : *Frontiers in Microbiology*. 8, 750.

Research output: Contribution to journal > Article > Scientific > peer-review

**Recombinant antibodies for specific detection of clostridial [Fe-Fe] hydrogenases**

Mangayil, R., Karp, M., Lamminmäki, U. & Santala, V., 27 Oct 2016, In : *Scientific Reports*. 6, 9 p., 36034.

Research output: Contribution to journal > Article > Scientific > peer-review

**Structural photoactivation of a full-length bacterial phytochrome**

Björling, A., Berntsson, O., Lehtivuori, H., Takala, H., Hughes, A. J., Panman, M., Hoernke, M., Niebling, S., Henry, L., Henning, R., Kosheleva, I., Chukharev, V., Tkachenko, N. V., Menzel, A., Newby, G., Khakhulin, D., Wulff, M., A. Ihalainen, J. & Westenhoff, S., 12 Aug 2016, In : *Science Advances*. 2, 8, 9 p., e1600920.

Research output: Contribution to journal > Article > Scientific > peer-review

**Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO<sub>2</sub>**

Kramb, J., DeMartini, N., Perander, M., Moilanen, A. & Kontinen, J., 1 Jul 2016, In : *Fuel Processing Technology*. 148, p. 50-59 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Characterization of fine fraction mined from two Finnish landfills**

Mönkäre, T. J., Palmroth, M. R. T. & Rintala, J. A., 2016, In : *Waste Management*. 47A, p. 34-39 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Use of diluted urine for cultivation of *Chlorella vulgaris***

Jaatinen, S., Lakaniemi, A-M. & Rintala, J., 2016, In : *Environmental Technology*. 37, 9, p. 1159-1170 12 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**High rate autotrophic denitrification in fluidized-bed biofilm reactors**

Zou, G., Papirio, S., Lakaniemi, A-M., Ahoranta, S. H. & Puhakka, J. A., 2016, In : *Chemical Engineering Journal*. 284, p. 1287-1294

Research output: Contribution to journal > Article > Scientific > peer-review

**Clashing coalitions: A discourse analysis of an artificial groundwater recharge project in Finland**

Kurki, V., Takala, A. & Vinnari, E., 2016, In : *Local Environment*. 21, 11, p. 1317-1331

Research output: Contribution to journal > Article > Scientific > peer-review

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

Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., Hübner, R. & Lens, P. N. L., 2016, In : *Chemical Engineering Journal*. 284, p. 917-925

Research output: Contribution to journal > Article > Scientific > peer-review

**Use of laboratory anaerobic digesters to simulate the increase of treatment rate in full-scale high nitrogen content sewage sludge and co-digestion biogas plants**

Tampio, E., Ervasti, S., Paavola, T. & Rintala, J., 2016, In : *Bioresource Technology*. 220, p. 47-54 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate**

Dhieb, A. C., Valkonen, A., Rzaigui, M. & Smirani, W., 15 Dec 2015, In : *Journal of Molecular Structure*. 1102, p. 50-56 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Kinnunen, V., Ylä-Outinen, A. & Rintala, J., 15 Dec 2015, In : *Water Research*. 87, p. 105-111 7 p., 11500.

Research output: Contribution to journal › Article › Scientific › peer-review

**Metabolic engineering of *Acinetobacter baylyi* ADP1 for removal of *Clostridium butyricum* growth inhibitors produced from lignocellulosic hydrolysates**

Kannisto, M. S., Mangayil, R. K., Shrivastava-Bhattacharya, A., Pletschke, B. I., Karp, M. T. & Santala, V. P., 1 Dec 2015, In : *Biotechnology for Biofuels*. 8, 1, 198.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Marjakangas, J. M., Chen, C. Y., Lakaniemi, A. M., Puhakka, J. A., Whang, L. M. & Chang, J. S., 5 Nov 2015, In : *Biochemical Engineering Journal*. 103, p. 177-184 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel**

Bajamundi, C. J. E., Vainikka, P., Hedman, M., Silvennoinen, J., Heinanen, T., Taipale, R. & Konttinen, J., 1 Sep 2015, In : *Fuel*. 155, p. 25-36 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Marjakangas, J. M., Chen, C-Y., Lakaniemi, A-M., Puhakka, J. A., Whang, L-M. & Chang, J-S., Sep 2015, In : *Bioresource Technology*. 191, p. 369-376 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties**

Barreca, D., Carraro, G., Warwick, M. E. A., Kaunisto, K., Gasparotto, A., Gombac, V., Sada, C., Turner, S., Van Tendeloo, G., Maccato, C. & Fornasiero, P., 28 Aug 2015, In : *CrystEngComm*. 17, 32, p. 6219-6226 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Çetinkaya, A. Y., Koroğlu, E. O., Demir, N. M., Baysoy, D. Y., Özkaya, B. & Çakmakçi, M., 20 Jul 2015, In : *Chinese Journal of Catalysis*. 36, 7, p. 1068-1076 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent**

Marjakangas, J. M., Lakaniemi, A. M., Koskinen, P. E. P., Chang, J. S. & Puhakka, J. A., 5 Jul 2015, In : *Biochemical Engineering Journal*. 99, p. 48-54 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char**

Perander, M., DeMartini, N., Brink, A., Kramb, J., Karlström, O., Hemming, J., Moilanen, A., Konttinen, J. & Hupa, M., 15 Jun 2015, In : *Fuel*. 150, p. 464-472 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Selenium biomineralization for biotechnological applications**

Nancharaiah, Y. V. & Lens, P. N. L., Jun 2015, In : *Trends in Biotechnology*. 33, 6, p. 323-330 8 p.

Research output: Contribution to journal › Literature review › Scientific › peer-review

**Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells**

Sorkio, A. E., Vuorimaa-Laukkanen, E. P., Hakola, H. M., Liang, H., Ujula, T. A., Valle-Delgado, J. J., Österberg, M., Yliperttula, M. L. & Skottman, H., 1 May 2015, In : *Biomaterials*. 51, p. 257-269 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Tampio, E., Ervasti, S. & Rintala, J., 1 May 2015, In : Journal of Cleaner Production. 94, p. 86-92 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Gene expression profiles of *Vibrio parahaemolyticus* in viable but non-culturable state**

Meng, L., Alter, T., Aho, T. & Huehn, S., May 2015, In : FEMS Microbiology Ecology. 91, 5, 12 p., 035.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Light induced cytosolic drug delivery from liposomes with gold nanoparticles**

Lajunen, T., Viitala, L., Kontturi, L-S., Laaksonen, T., Liang, H., Vuorimaa-Laukkanen, E., Viitala, T., Le Guevel, X., Yliperttula, M., Murtomaki, L. & Urtili, A., 10 Apr 2015, In : Journal of Controlled Release. 203, p. 85-98 14 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Mangayil, R., Aho, T., Karp, M. & Santala, V., 1 Mar 2015, In : Renewable Energy. 75, p. 583-589 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Fluidized-bed denitrification of mining water tolerates high nickel concentrations**

Zou, G., Papirio, S., van Hullebusch, E. D. & Puhakka, J. A., 1 Mar 2015, In : Bioresource Technology. 179, p. 284-290 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Taddeo, R. & Lepistö, R., 2015, In : Water Science and Technology. 71, 6, p. 892-897 6 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Mönkäre, T. J., Palmroth, M. R. T. & Rintala, J. A., 2015, In : Waste Management. 45, p. 468-475 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Maanoja, S. T. & Rintala, J. A., 2015, In : Waste Management. 46, p. 399-407 9 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Method with high-throughput screening potential for antioxidative substances using *Escherichia coli* biosensor *katG*::lux**

Tienaho, J., Sarjala, T., Franzén, R. & Karp, M., 2015, In : Journal of Microbiological Methods. 118, p. 78-80 3 p., 4723.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Ciranna, A., Ferrari, R., Santala, V. & Karp, M., 15 Apr 2014, In : International Journal of Hydrogen Energy. 39, 12, p. 6391-6401 11 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Ciranna, A., Pawar, S. S., Santala, V., Karp, M. & van Niel, E. W. J., 28 Mar 2014, In : Microbial Cell Factories. 13, 1, 48.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Santala, S., Efimova, E., Koskinen, P., Karp, M. T. & Santala, V., 21 Mar 2014, In : ACS Synthetic Biology. 3, 3, p. 145-151 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Kannisto, M., Aho, T., Karp, M. & Santala, V., 2014, In : Applied and Environmental Microbiology. 80, 22, p. 7021-7027 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Culturable psychrotolerant methanotrophic bacteria in landfill cover soil**

Kallistova, A. Y., Montonen, L., Jurgens, G., Münster, U., Kevbrina, M. V. & Nozhevnikova, A. N., 2013, In : Microbiology. 82, 6, p. 847-855 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Impact of heavy metals on denitrification of simulated mining wastewaters**

Zou, G., Ylinen, A., Di Capua, F., Papirio, S., Lakaniemi, A-M. & Puhakka, J., 2013, In : Advanced Materials Research. 825, p. 500-503 4 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Lakaniemi, A-M., Tuovinen, O. H. & Puhakka, J. A., 2012, In : BioEnergy Research. 5, 2, p. 481-491

Research output: Contribution to journal > Article > Scientific > peer-review

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

Hulatt, C. J., Lakaniemi, A-M., Puhakka, J. A. & Thomas, D. N., 2012, In : BioEnergy Research. 5, 3, p. 669-684

Research output: Contribution to journal > Article > Scientific > peer-review

**Growth of *Dunaliella tertiolecta* and associated bacteria in photobioreactors**

Lakaniemi, A-M., Intihar, V. M., Tuovinen, O. H. & Puhakka, J. A., 2012, In : Journal of Industrial Microbiology and Biotechnology. 39, 9, p. 1357-1365

Research output: Contribution to journal > Article > Scientific > peer-review

**Growth of *Chlorella vulgaris* and associated bacteria in photobioreactors**

Lakaniemi, A-M., Intihar, V. M., Tuovinen, O. H. & Puhakka, J. A., 2012, In : Microbial Biotechnology. 5, 1, p. 69-78

Research output: Contribution to journal > Article > Scientific > peer-review

**Biogenic hydrogen and methane production from reed canary grass**

Lakaniemi, A-M., Koskinen, P. E. P., Nevatalo, L. M., Kaksonen, A. H. & Puhakka, J. A., 2011, In : Biomass & Bioenergy. 35, 2, p. 773-780

Research output: Contribution to journal > Article > Scientific > peer-review

**Biogenic hydrogen and methane production from *Chlorella vulgaris* and *Dunaliella tertiolecta* biomass**

Lakaniemi, A-M., Hulatt, C. J., Thomas, D. N., Tuovinen, O. H. & Puhakka, J. A., 2011, In : Biotechnology for Biofuels. 4, 1, p. 1-12 12 p., 34.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Lakaniemi, A-M., Nevatalo, L. M., Kaksonen, A. H. & Puhakka, J. A., 2010, In : Bioresource Technology. 101, 11, p. 3931-3939

Research output: Contribution to journal > Article > Scientific > peer-review

**Hydrolysed cellulose material as sulfate reduction electron donor to treat metal- and sulfate containing waste water**

Lakaniemi, A-M., Nevatalo, L. M., Kaksonen, A. H. & Puhakka, J. A., 2007, In : Advanced Materials Research. 20-21, p. 326-326

Research output: Contribution to journal > Article > Scientific > peer-review

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

Lappalainen, J. O., Karp, M. T., Juvonen, R., Virta, M. P. J. & Nurmi, J., Dec 2000, In : *Environmental Toxicology*. 15, 5, p. 443-448 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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Tauriainen, S. M., Virta, M. P. J. & Karp, M. T., Jul 2000, In : *Water Research*. 34, 10, p. 2661-2666 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Review Article > Scientific > peer-review

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

Butti, S. K., Velvizhi, G., Sulonen, M. L. K., Haavisto, J. M., Oguz Koroglu, E., Yusuf Cetinkaya, A., Singh, S., Arya, D., Annie Modestra, J., Vamsi Krishna, K., Verma, A., Ozkaya, B., Lakaniemi, A.-M., Puhakka, J. A. & Venkata Mohan, S., Jan 2016, In : *Renewable and Sustainable Energy Reviews*. 53, p. 462-476

Research output: Contribution to journal > Review Article > Scientific > peer-review

**Metals removal and recovery in bioelectrochemical systems: A review**

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Research output: Contribution to journal > Review Article > Scientific > peer-review

**Interdisciplinary water research network building within Nordic and Baltic countries.**

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Research output: Contribution to journal > Review Article > Scientific > peer-review

**Water supply and sanitation services in finland before world war 2**

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**Photoresponsive Polymer Hydrogel Coatings that Change Topography**

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Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

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

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**Vesihuolto tarvitsee tutkimusta ja koulutusta**

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**Factors affecting the elimination capacity of a passive methane biofilter**

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**Start-up of anaerobic digester treating LCFA containing wastewater at low temperature**

Singh, S., Kokko, M. & Rintala, J., 2017.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Methane production from 30-100 year old sedimented fibre from pulp and paper industry**

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**Reduced Inorganic Sulfur Compounds of Simulated Mining Waters Support Bioelectrochemical and Electrochemical Current Generation**

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**Mitigation of propylene glycol emissions to groundwater and soil**

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