

Maanoja S, Lakaniemi AM, Lehtinen L, Salminen L, Auvinen H, Kokko M, Palmroth M, Muuri E, Rintala J. 2020. Compacted bentonite as a source of substrates for sulfate-reducing microorganisms in a simulated excavation-damaged zone of a spent nuclear fuel repository. *APPLIED CLAY SCIENCE*. 196. <https://doi.org/10.1016/j.clay.2020.105746>

Lappalainen J, Baudouin D, Hornung U, Schuler J, Melin K, Bjelić S, Vogel F, Konttinen J, Joronen T. 2020. Sub- and Supercritical Water Liquefaction of Kraft Lignin and Black Liquor Derived Lignin. *Energies*. 13(13). <https://doi.org/10.3390/en13133309>

Laasasenaho K, Renzi F, Karjalainen H, Kaparaju P, Konttinen J, Rintala J. 2020. Biogas and combustion potential of fresh reed canary grass grown on cutover peatland. *Mires and Peat*. 26. <https://doi.org/10.19189/MaP.2019.OMB.StA.1786>

Ahoranta S, Hulkkonen H, Salminen T, Kuula P, Puhakka JA, Lakaniemi AM. 2020. Formation and use of biogenic jarosite carrier for high-rate iron oxidising biofilms. *Research in Microbiology*. <https://doi.org/10.1016/j.resmic.2020.06.004>

Turunen M, Hyväluoma J, Heikkinen J, Keskinen R, Kaseva J, Hannula M, Rasa K. 2020. Quantifying the pore structure of different biochars and their impacts on the water retention properties of Sphagnum moss growing media. *Biosystems Engineering*. 191:96-106. <https://doi.org/10.1016/j.biosystemseng.2020.01.006>

Laasasenaho K 2019. Biomass Resource Allocation for Bioenergy Production on Cutaway Peatlands with Geographical Information (GI) Analyses. Tampere University. 105 Sivumäärä (Tampere University Dissertations).

Markou G, Arapoglou D, Eliopoulos C, Balafoutis A, Taddeo R, Panara A, Thomaidis N. 2019. Cultivation and safety aspects of *Arthrospira platensis* (Spirulina) grown with struvite recovered from anaerobic digestion plant as phosphorus source. *Algal Research*. 44. <https://doi.org/10.1016/j.algal.2019.101716>

Okonkwo O, Escudié R, Bernet N, Mangayil R, Lakaniemi A-M, Trably E. 2019. Bioaugmentation enhances dark fermentative hydrogen production in cultures exposed to short-term temperature fluctuations. *Applied Microbiology and Biotechnology*. <https://doi.org/10.1007/s00253-019-10203-8>

Watsuntorn W, Khanongnuch R, Chulalaksananukul W, Rene ER, Lens PNL. 2019. Resilient performance of an anoxic biotrickling filter for hydrogen sulphide removal from a biogas mimic: Steady, transient state and neural network evaluation. *Journal of Cleaner Production*. 119351. <https://doi.org/10.1016/j.jclepro.2019.119351>

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. 2019. Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. *Organic Electronics*. <https://doi.org/10.1016/j.orgel.2019.105524>

Mangayil R, Efimova E, Konttinen J, Santala V. 2019. Co-production of 1,3 propanediol and long-chain alkyl esters from crude glycerol. *New Biotechnology*. 53:81-89. <https://doi.org/10.1016/j.nbt.2019.07.003>

Chatterjee P, Dessì P, Kokko M, Lakaniemi A-M, Lens P. 2019. Selective enrichment of biocatalysts for bioelectrochemical systems: A critical review. *Renewable and Sustainable Energy Reviews*. 109:10-23. <https://doi.org/10.1016/j.rser.2019.04.012>

Pastor-Poquet V, Papirio S, Trably E, Rintala J, Escudié R, Esposito G. 2019. Semi-continuous mono-digestion of OFMSW and Co-digestion of OFMSW with beech sawdust: Assessment of the maximum operational total solid content. *Journal of Environmental Management*. 231:1293-1302. <https://doi.org/10.1016/j.jenvman.2018.10.002>

Nykänen H, Rissanen AJ, Turunen J, Tahvanainen T, Simola H. 2019. Carbon storage change and  $\delta^{13}\text{C}$  transitions of peat columns in a partially forestry-drained boreal bog. *Plant and Soil*. <https://doi.org/10.1007/s11104-019-04375-5>

Saarela T, Rissanen AJ, Ojala A, Pumpanen J, Aalto SL, Tirola M, Vesala T, Jäntti H. 2019. CH<sub>4</sub> oxidation in a boreal lake during the development of hypolimnetic hypoxia. *Aquatic Sciences*. 82(2). <https://doi.org/10.1007/s00027-019-0690-8>

Haavisto JM, Lakaniemi A-M, Puhakka JA. 2019. Storing of exoelectrogenic anolyte for efficient microbial fuel cell recovery. *Environmental Technology*. 40(11). <https://doi.org/10.1080/09593330.2017.1423395>

Rasa K, Heikkinen J, Hannula M, Arstila K, Kulju S, Hyväluoma J. 2018. How and why does willow biochar increase a clay soil water retention capacity?. *Biomass and Bioenergy*. 119:346-353. <https://doi.org/10.1016/j.biombioe.2018.10.004>

Ferreira SA, Motwani MS, Faull PA, Seymour AJ, Yu TTL, Enayati M, Taheem DK, Salzlechner C, Haghighi T, Kania EM, Oommen OP, Ahmed T, Loaiza S, Parzych K, Dazzi F, Varghese OP, Festy F, Grigoriadis AE, Auner HW, Snijders AP, Bozec L, Gentleman E. 2018. Bi-directional cell-pericellular matrix interactions direct stem cell fate. *Nature Communications*. 9(1). <https://doi.org/10.1038/s41467-018-06183-4>

Niemi RJ, Roine AN, Eräviita E, Kumpulainen PS, Mäenpää JU, Oksala N. 2018. FAIMS analysis of urine gaseous headspace is capable of differentiating ovarian cancer. *Gynecologic Oncology*. 151(3):519-524. <https://doi.org/10.1016/j.ygyno.2018.09.016>

Uusheimo S, Huotari J, Tulonen T, Aalto SL, Rissanen AJ, Arvola L. 2018. High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate. *Environmental science & technology*. 52(22):13343-13350. <https://doi.org/10.1021/acs.est.8b03032>

Tan LC, Nancharaiah YV, Lu S, van Hullebusch ED, Gerlach R, Lens PNL. 2018. Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. *Chemosphere*. 211:684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Chatterjee P, Lahtinen L, Kokko M, Rintala J. 2018. Remediation of sedimented fiber originating from pulp and paper industry: Laboratory scale anaerobic reactor studies and ideas of scaling up. *Water Research*. 143:209-217. <https://doi.org/10.1016/j.watres.2018.06.054>

Dessi P, Porca E, Lakaniemi A-M, Collins G, Lens PNL. 2018. Temperature control as key factor for optimal biohydrogen production from thermomechanical pulping wastewater. *Biochemical Engineering Journal*. 137:214-221. <https://doi.org/10.1016/j.bej.2018.05.027>

Eregowda T, Matanhike L, Rene ER, Lens PNL. 2018. 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. *Bioresource Technology*. 263:591-600. <https://doi.org/10.1016/j.biortech.2018.04.095>

Aisala H, Laaksonen O, Manninen H, Raitola A, Hopia A, Sandell M. 2018. Sensory properties of Nordic edible mushrooms. *Food Research International*. 109:526-536. <https://doi.org/10.1016/j.foodres.2018.04.059>

Mönkäre T 2018. Characterization and biological stabilization of fine fraction from landfill mining. Tampere University of Technology. 68 Sivumäärä (Tampere University of Technology. Publication).

Kainulainen TP, Sirviö JA, Sethi J, Hukka TI, Heiskanen JP. 2018. UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol. *Macromolecules*. 51(5):1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>

Aalto SL, Saarenheimo J, Mikkonen A, Rissanen AJ, Tirola M. 2018. Resistant ammonia-oxidizing archaea endure, but adapting ammonia-oxidizing bacteria thrive in boreal lake sediments receiving nutrient-rich effluents. *Environmental Microbiology*. 20(10):3616-3628. <https://doi.org/10.1111/1462-2920.14354>

Nykänen H, Mpamah PA, Rissanen AJ. 2018. Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands. *Isotopes in Environmental and Health Studies*. 54(6). <https://doi.org/10.1080/10256016.2018.1523158>

Sippola RJ, Hadipour A, Kastinen T, Vivo P, Hukka TI, Aernouts T, Heiskanen JP. 2017. Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties. *Dyes and Pigments*. 150:79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>

Stumpel JE, ter Schiphorst J, Schenning APHJ. 2017. Photoresponsive Polymer Hydrogel Coatings that Change Topography. Liu D, Broer D, Toimittajat. teoksessa *Responsive Polymer Surfaces: Dynamics in Surface Topography*. Wiley-VCH. Sivut 159-173. <https://doi.org/10.1002/9783527690534.ch7>

Masood MT, Weinberger C, Sarfraz J, Rosqvist E, Sandén S, Sandberg O, Vivo P, Hashmi G, Lund PD, Österbacka R, Smått J-H. 2017. Impact of film thickness of ultra-thin dip-coated compact TiO<sub>2</sub> layers on the performance of mesoscopic perovskite solar cells. *ACS Applied Materials and Interfaces*. 9(21):17906-17913. <https://doi.org/10.1021/acsami.7b02868>

Ledezma P, Jermakka J, Keller J, Freguia S. 2017. Recovering Nitrogen as a Solid without Chemical Dosing: Bio-Electroconcentration for Recovery of Nutrients from Urine. *Environmental Science and Technology Letters*. 4(3):119-124. <https://doi.org/10.1021/acs.estlett.7b00024>

Doddapaneni TRKC, Praveenkumar R, Tolvanen H, Palmroth MRT, Konttinen J, Rintala J. 2017. Anaerobic batch conversion of pine wood torrefaction condensate. *Bioresource Technology*. 225:299-307. <https://doi.org/10.1016/j.biortech.2016.11.073>

Di Capua F, Lakaniemi A-M, Puhakka JA, Lens PNL, Esposito G. 2017. High-rate thiosulfate-driven denitrification at pH lower than 5 in fluidized-bed reactor. *Chemical Engineering Journal*. 310, Part 1:282-291. <https://doi.org/10.1016/j.cej.2016.10.117>

Sulonen M, Kokko M, Lakaniemi A-M, Puhakka J. 2017. Bioelectrochemical removal of inorganic sulfur compounds and copper from simulated acidic mining water. *Julkaisun esittämisaikka: ISMET 6*, .

Kokko M, Koskue V, Rintala J. 2017. Methane production from 30-100 year old sedimented fibre from pulp and paper industry. *Julkaisun esittämisaikka: the 15th IWA World Conference on Anaerobic Digestion*, .

Saarenheimo J, Aalto SL, Rissanen AJ, Tirola M. 2017. Microbial community response on wastewater discharge in boreal lake sediments. *Frontiers in Microbiology*. 8. <https://doi.org/10.3389/fmicb.2017.00750>

Sulonen M, Lakaniemi A-M, Kokko M, Puhakka J. 2017. Reduced Inorganic Sulfur Compounds of Simulated Mining Waters Support Bioelectrochemical and Electrochemical Current Generation. *Julkaisun esittämisaikka: 13th International Mine Water Association Congress – “Mine Water & Circular Economy – A Green Congress”*, .

Mönkäre TJ, Palmroth MRT, Rintala JA. 2017. Screening biological methods for laboratory scale stabilization of fine fraction from landfill mining. *Waste Management*. 60:739-747. <https://doi.org/10.1016/j.wasman.2016.11.015>

Singh S, Kokko M, Rintala J. 2017. Start-up of anaerobic digester treating LCFA containing wastewater at low temperature . *Julkaisun esittämisaikka: 1st International ABWET conference*, .

Singh S, Tolvanen H, Kokko M, Rintala J. 2017. Study of LCFA mediated granular disintegration in EGSB at low temperature using Static Image Analysis. *Julkaisun esittämisaikka: the 15th IWA World Conference on Anaerobic Digestion*, .

Jain R, Lakaniemi A-M, Peräniemi S, Kankkunen J, Turunen J, Vepsäläinen J. 2017. Uranium Removal via Sorption Using Peat and Waste Digested Activated Sludge. *Julkaisun esittämisaikka: 13th International Mine Water Association Congress – “Mine Water & Circular Economy – A Green Congress”*, .

Mangayil R, Karp M, Lamminmäki U, Santala V. 2016. Recombinant antibodies for specific detection of clostridial [Fe-Fe] hydrogenases. *Scientific Reports*. 6. <https://doi.org/10.1038/srep36034>

Palmroth MRT, Pispä L, Kettunen RH, Hänninen T, Rintala JA. 2016. Mitigation of propylene glycol emissions to groundwater and soil. *Julkaisun esittämispäikkä: Nordrocs 2016, 6th Joint Nordic Meeting on Remediation of Contaminated Sites, Espoo, Suomi.*

Björling A, Berntsson O, Lehtivuori H, Takala H, Hughes AJ, Panman M, Hoernke M, Niebling S, Henry L, Henning R, Kosheleva I, Chukharev V, Tkachenko NV, Menzel A, Newby G, Khakhulin D, Wulff M, A. Ihalainen J, Westenhoff S. 2016. Structural photoactivation of a full-length bacterial phytochrome. *Science Advances*. 2(8). <https://doi.org/10.1126/sciadv.1600920>

Kramb J, DeMartini N, Perander M, Moilanen A, Kontinen J. 2016. Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO<sub>2</sub>. *Fuel Processing Technology*. 148:50-59. <https://doi.org/10.1016/j.fuproc.2016.01.031>

Butti SK, Velvizhi G, Sulonen MLK, Haavisto JM, Oguz Koroglu E, Yusuf Cetinkaya A, Singh S, Arya D, Annie Modestra J, Vamsi Krishna K, Verma A, Ozkaya B, Lakaniemi A-M, Puhakka JA, Venkata Mohan S. 2016. Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling. *Renewable and Sustainable Energy Reviews*. 53:462-476. <https://doi.org/10.1016/j.rser.2015.08.058>

Mönkäre TJ, Palmroth MRT, Rintala JA. 2016. Characterization of fine fraction mined from two Finnish landfills. *Waste Management*. 47A:34-39. <https://doi.org/10.1016/j.wasman.2015.02.034>

Kurki V, Takala A, Vinnari E. 2016. Clashing coalitions: A discourse analysis of an artificial groundwater recharge project in Finland. *Local Environment*. 21(11):1317-1331. <https://doi.org/10.1080/13549839.2015.1113516>

Zou G, Papirio S, Lakaniemi A-M, Ahoranta SH, Puhakka JA. 2016. High rate autotrophic denitrification in fluidized-bed biofilm reactors. *Chemical Engineering Journal*. 284:1287-1294. <https://doi.org/10.1016/j.cej.2015.09.074>

Jain R, Dominic D, Jordan N, Rene ER, Weiss S, van Hullebusch ED, Hübner R, Lens PNL. 2016. Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. *Chemical Engineering Journal*. 284:917-925. <https://doi.org/10.1016/j.cej.2015.08.144>

Jaatinen S, Lakaniemi A-M, Rintala J. 2016. Use of diluted urine for cultivation of *Chlorella vulgaris*. *Environmental Technology*. 37(9):1159-1170. <https://doi.org/10.1080/09593330.2015.1105300>

Tampio E, Ervasti S, Paavola T, Rintala J. 2016. 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. *Bioresource Technology*. 220:47-54. <https://doi.org/10.1016/j.biortech.2016.08.058>

Kinnunen V, Ylä-Outinen A, Rintala J. 2015. Mesophilic anaerobic digestion of pulp and paper industry biosludge-long-term reactor performance and effects of thermal pretreatment. *Water Research*. 87:105-111. <https://doi.org/10.1016/j.watres.2015.08.053>

Dhieb AC, Valkonen A, Rzaigui M, Smirani W. 2015. Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate. *Journal of Molecular Structure*. 1102:50-56. <https://doi.org/10.1016/j.molstruc.2015.08.044>

Kannisto MS, Mangayil RK, Shrivastava-Bhattacharya A, Pletschke BI, Karp MT, Santala VP. 2015. Metabolic engineering of *Acinetobacter baylyi* ADP1 for removal of *Clostridium butyricum* growth inhibitors produced from lignocellulosic hydrolysates. *Biotechnology for Biofuels*. 8(1). <https://doi.org/10.1186/s13068-015-0389-6>

Marjakangas J 2015. Production of Oleaginous Microbial Biomass by Reusing Wastewaters. Tampere University of Technology. 58 Sivumäärä (Tampere University of Technology. Publication).

Sariola-Leikas E 2015. Organic Chromophores in Self-Assembled Monolayers and Supramolecular Arrays. Tampere University of Technology. 58 Sivumäärä (Tampere University of Technology. Publication).

Marjakangas JM, Chen CY, Lakaniemi AM, Puhakka JA, Whang LM, Chang JS. 2015. Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggery wastewater. *Biochemical Engineering Journal*. 103:177-184. <https://doi.org/10.1016/j.bej.2015.07.011>

Bajamundi CJE, Vainikka P, Hedman M, Silvennoinen J, Heinanen T, Taipale R, Konttinen J. 2015. Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel. *Fuel*. 155:25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

Marjakangas JM, Chen C-Y, Lakaniemi A-M, Puhakka JA, Whang L-M, Chang J-S. 2015. Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggery wastewater. *Bioresource Technology*. 191:369-376. <https://doi.org/10.1016/j.biortech.2015.02.075>

Barreca D, Carraro G, Warwick MEA, Kaunisto K, Gasparotto A, Gombac V, Sada C, Turner S, Van Tendeloo G, Maccato C, Fornasiero P. 2015. 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. *CrystEngComm*. 17(32):6219-6226. <https://doi.org/10.1039/c5ce00883b>

Çetinkaya AY, Köroğlu EO, Demir NM, Baysoy DY, Özkaya B, Çakmakçı M. 2015. Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration. *Chinese Journal of Catalysis*. 36(7):1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)

Marjakangas JM, Lakaniemi AM, Koskinen PEP, Chang JS, Puhakka JA. 2015. Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent. *Biochemical Engineering Journal*. 99:48-54. <https://doi.org/10.1016/j.bej.2015.03.006>

Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J, Moilanen A, Konttinen J, Hupa M. 2015. Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char. *Fuel*. 150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

Nancharaiyah YV, Lens PNL. 2015. Selenium biomineralization for biotechnological applications. *Trends in Biotechnology*. 33(6):323-330. <https://doi.org/10.1016/j.tibtech.2015.03.004>

Sorkio AE, Vuorimaa-Laukkanen EP, Hakola HM, Liang H, Ujula TA, Valle-Delgado JJ, Österberg M, Yliperttula ML, Skottman H. 2015. Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells. *Biomaterials*. 51:257-269. <https://doi.org/10.1016/j.biomaterials.2015.02.005>

Tampio E, Ervasti S, Rintala J. 2015. Characteristics and agronomic usability of digestates from laboratory digesters treating food waste and autoclaved food waste. *Journal of Cleaner Production*. 94:86-92. <https://doi.org/10.1016/j.jclepro.2015.01.086>

Meng L, Alter T, Aho T, Huehn S. 2015. Gene expression profiles of *Vibrio parahaemolyticus* in viable but non-culturable state. *FEMS Microbiology Ecology*. 91(5). <https://doi.org/10.1093/femsec/fiv035>

Santala S 2015. Developing Synthetic Biology Tools and Model Chassis: Production of Bioenergy and High-Value Molecules. Tampere University of Technology. 99 Sivumäärä (Tampere University of Technology. Publication).

Lajunen T, Viitala L, Kontturi L-S, Laaksonen T, Liang H, Vuorimaa-Laukkanen E, Viitala T, Le Guevel X, Yliperttula M, Murtomaki L, Urtti A. 2015. Light induced cytosolic drug delivery from liposomes with gold nanoparticles. *Journal of Controlled Release*. 203:85-98. <https://doi.org/10.1016/j.jconrel.2015.02.028>

- Mangayil R 2015. Biohydrogen Production: A Protein to Community Level Perspective Study. Tampere University of Technology. 89 Sivumäärä (Tampere University of Technology. Publication).
- O'Neill M 2015. Ecological Sanitation - A Logical Choice? The Development of the Sanitation Institution in a World Society . Tampere University of Technology. 236 Sivumäärä (Tampere University of Technology. Publication).
- Zou G, Papirio S, van Hullebusch ED, Puhakka JA. 2015. Fluidized-bed denitrification of mining water tolerates high nickel concentrations. *Bioresource Technology*. 179:284-290. <https://doi.org/10.1016/j.biortech.2014.12.044>
- Mangayil R, Aho T, Karp M, Santala V. 2015. Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components. *Renewable Energy*. 75:583-589. <https://doi.org/10.1016/j.renene.2014.10.051>
- Zou G 2015. Biological Nitrogen Removal from Acidic, Heavy-metal Containing Waters. Tampere: Tampere University of Technology. 92 Sivumäärä (Tampere University of Technology. Publication).
- Maanoja S, Rintala J. 2015. Factors affecting the elimination capacity of a passive methane biofilter. teoksessa *BioTechniques Ghent 2015 The 6th international conference on biotechniques for air pollution control: Conference Proceedings*. Sivut 83-88.
- Palmroth MRT, Mönkäre TJ, Steffen KT. 2015. Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential. Kalogerakis N, Fava F, Manousaki E, Toimittajat. teoksessa *Book of abstracts of the 6th European Bioremediation Conference*. Sivut 47.
- Sörensen J, Kurki V, Sidaraviciute R, Ngari Kibocha S, Retike I, Ikobe G, Tichonovas M, Elijosiute E, Rajala R. 2015. Interdisciplinary water research network building within Nordic and Baltic countries. *Vatten*. (71):79-83.
- Nancharaiah YV, Venkata Mohan S, Lens PNL. 2015. Metals removal and recovery in bioelectrochemical systems: A review. *Bioresource Technology*. 195:102-114. <https://doi.org/10.1016/j.biortech.2015.06.058>
- Maanoja ST, Rintala JA. 2015. Methane oxidation potential of boreal landfill cover materials: The governing factors and enhancement by nutrient manipulation. *Waste Management*. 46:399-407. <https://doi.org/10.1016/j.wasman.2015.08.011>
- Tienaho J, Sarjala T, Franzén R, Karp M. 2015. Method with high-throughput screening potential for antioxidative substances using *Escherichia coli* biosensor katG':lux. *Journal of Microbiological Methods*. 118:78-80. <https://doi.org/10.1016/j.mimet.2015.08.018>
- Mönkäre TJ, Palmroth MRT, Rintala JA. 2015. Stabilization of fine fraction from landfill mining in anaerobic and aerobic laboratory leach bed reactors. *Waste Management*. 45:468-475. <https://doi.org/10.1016/j.wasman.2015.06.040>
- Taddeo R, Lepistö R. 2015. Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors. *Water Science and Technology*. 71(6):892-897. <https://doi.org/10.2166/wst.2015.045>
- Katko T. 2015. Vesihuolto tarvitsee tutkimusta ja koulutusta. *Kuntatekniikka*. (2):17.
- Heino O, Anttiroiko A-V 2014. Enabling and Integrative Infrastructure Policy: The Role of Inverse Infrastructures in Local Infrastructure Provision with Special Reference to Finnish Water Cooperatives. MPRA. (MPRA Paper; 60276).
- Ciranna A, Ferrari R, Santala V, Karp M. 2014. Inhibitory effects of substrate and soluble end products on biohydrogen production of the alkalithermophile *Caloramator celer*: Kinetic, metabolic and transcription analyses. *International Journal of Hydrogen Energy*. 39(12):6391-6401. <https://doi.org/10.1016/j.ijhydene.2014.02.047>

- Ciranna A, Pawar SS, Santala V, Karp M, van Niel EWJ. 2014. Assessment of metabolic flux distribution in the thermophilic hydrogen producer *Caloramator celer* as affected by external pH and hydrogen partial pressure. *Microbial Cell Factories*. 13(1). <https://doi.org/10.1186/1475-2859-13-48>
- Santala S, Efimova E, Koskinen P, Karp MT, Santala V. 2014. Rewiring the wax ester production pathway of *Acinetobacter baylyi* ADP1. *ACS Synthetic Biology*. 3(3):145-151. <https://doi.org/10.1021/sb4000788>
- Kannisto M, Aho T, Karp M, Santala V. 2014. Metabolic engineering of *Acinetobacter baylyi* ADP1 for improved growth on gluconate and glucose. *Applied and Environmental Microbiology*. 80(22):7021-7027. <https://doi.org/10.1128/AEM.01837-14>
- Juuti P, Katko T. 2014. Water supply and sanitation services in Finland before World War 2. *Flux*. 97-98(4):80-87.
- Kallistova AY, Montonen L, Jurgens G, Münster U, Kevbrina MV, Nozhevnikova AN. 2013. Culturable psychrotolerant methanotrophic bacteria in landfill cover soil. *Microbiology*. 82(6):847-855. <https://doi.org/10.1134/S0026261714010044>
- Zou G, Ylinen A, Di Capua F, Papirio S, Lakaniemi A-M, Puhakka J. 2013. Impact of heavy metals on denitrification of simulated mining wastewaters. *Advanced Materials Research*. 825:500-503. <https://doi.org/10.4028/www.scientific.net/AMR.825.500>
- Hulatt CJ, Lakaniemi A-M, Puhakka JA, Thomas DN. 2012. Energy Demands of Nitrogen Supply in Mass Cultivation of Two Commercially Important Microalgal Species, *Chlorella vulgaris* and *Dunaliella tertiolecta*. *BioEnergy Research*. 5(3):669-684. <https://doi.org/10.1007/s12155-011-9175-x>
- Lakaniemi A-M, Intihar VM, Tuovinen OH, Puhakka JA. 2012. Growth of *Chlorella vulgaris* and associated bacteria in photobioreactors. *Microbial Biotechnology*. 5(1):69-78. <https://doi.org/10.1111/j.1751-7915.2011.00298.x>
- Lakaniemi A-M, Intihar VM, Tuovinen OH, Puhakka JA. 2012. Growth of *Dunaliella tertiolecta* and associated bacteria in photobioreactors. *Journal of Industrial Microbiology and Biotechnology*. 39(9):1357-1365. <https://doi.org/10.1007/s10295-012-1133-x>
- Lakaniemi A-M, Tuovinen OH, Puhakka JA. 2012. Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells. *BioEnergy Research*. 5(2):481-491. <https://doi.org/10.1007/s12155-012-9186-2>
- Lakaniemi A-M, Hulatt CJ, Thomas DN, Tuovinen OH, Puhakka JA. 2011. Biogenic hydrogen and methane production from *Chlorella vulgaris* and *Dunaliella tertiolecta* biomass. *Biotechnology for Biofuels*. 4(1):1-12. <https://doi.org/10.1186/1754-6834-4-34>
- Lakaniemi A-M, Koskinen PEP, Nevatalo LM, Kaksonen AH, Puhakka JA. 2011. Biogenic hydrogen and methane production from reed canary grass. *Biomass & Bioenergy*. 35(2):773-780. <https://doi.org/10.1016/j.biombioe.2010.10.032>
- Lakaniemi A-M, Nevatalo LM, Kaksonen AH, Puhakka JA. 2010. Mine wastewater treatment using *Phalaris arundinacea* plant material hydrolyzate as substrate for sulfate-reducing bioreactor. *Bioresource Technology*. 101(11):3931-3939. <https://doi.org/10.1016/j.biortech.2010.01.020>
- Lakaniemi A-M, Nevatalo LM, Kaksonen AH, Puhakka JA. 2007. Hydrolysed cellulose material as sulfate reduction electron donor to treat metal- and sulfate containing waste water. *Advanced Materials Research*. 20-21:326-326. <https://doi.org/10.4028/www.scientific.net/AMR.20-21.326>
- Lappalainen JO, Karp MT, Juvonen R, Virta MPJ, Nurmi J. 2000. Comparison of the total mercury content in sediment samples with a mercury sensor bacteria test and *Vibrio fischeri* toxicity test. *Environmental Toxicology*. 15(5):443-448. [https://doi.org/10.1002/1522-7278\(2000\)15:5<443::AID-TOX12>3.0.CO;2-L](https://doi.org/10.1002/1522-7278(2000)15:5<443::AID-TOX12>3.0.CO;2-L)

Tauriainen SM, Virta MPJ, Karp MT. 2000. Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria. *Water Research*. 34(10):2661-2666. [https://doi.org/10.1016/S0043-1354\(00\)00005-1](https://doi.org/10.1016/S0043-1354(00)00005-1)

Korpela MT, Kurittu JS, Karvinen JT, Karp MT. 1998. A recombinant *Escherichia coli* sensor strain for the detection of tetracyclines. *Analytical Chemistry*. 70(21):4457-4462. <https://doi.org/10.1021/ac980740e>