

Doddapaneni, T. R. K. C., Praveenkumar, R., Tolvanen, H., Palmroth, M. R. T., 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>

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

Ciranna, A., Pawar, S. S., Santala, V., Karp, M., & van Niel, E. W. J. (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), [48]. <https://doi.org/10.1186/1475-2859-13-48>

Ferreira, S. A., Motwani, M. S., Faull, P. A., Seymour, A. J., Yu, T. T. L., Enayati, M., ... Gentleman, E. (2018). Bi-directional cell-pericellular matrix interactions direct stem cell fate. *Nature Communications*, *9*(1), [4049]. <https://doi.org/10.1038/s41467-018-06183-4>

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>

Sulonen, M., Kokko, M., Lakaniemi, A-M., & Puhakka, J. (2017). *Bioelectrochemical removal of inorganic sulfur compounds and copper from simulated acidic mining water*. Paper presented at ISMET 6, .

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*, [10]. <https://doi.org/10.19189/MaP.2019.OMB.StA.1786>

Lakaniemi, A-M., Hulatt, C. J., Thomas, D. N., Tuovinen, O. H., & Puhakka, J. A. (2011). Biogenic hydrogen and methane production from Chlorella vulgaris and Dunaliella tertiolecta biomass. *Biotechnology for Biofuels*, *4*(1), 1-12. [34]. <https://doi.org/10.1186/1754-6834-4-34>

Lakaniemi, A-M., Koskinen, P. E. P., Nevatalo, L. M., Kaksonen, A. H., & Puhakka, J. A. (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>

Mangayil, R. (2015). *Biohydrogen Production: A Protein to Community Level Perspective Study*. (Tampere University of Technology. Publication; Vol. 1282). Tampere University of Technology.

Zou, G. (2015). *Biological Nitrogen Removal from Acidic, Heavy-metal Containing Waters*. (Tampere University of Technology. Publication; Vol. 1314). Tampere: Tampere University of Technology.

Tan, L. C., Nancharaiyah, Y. V., Lu, S., van Hullebusch, E. D., Gerlach, R., & Lens, P. N. L. (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>

Laasasenaho, K. (2019). *Biomass Resource Allocation for Bioenergy Production on Cutaway Peatlands with Geographical Information (GI) Analyses*. (Tampere University Dissertations; Vol. 191). Tampere University.

Sorkio, A. E., Vuorimaa-Laukkanen, E. P., Hakola, H. M., Liang, H., Ujula, T. A., Valle-Delgado, J. J., ... 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>

Sippola, R. J., Hadipour, A., Kastinen, T., Vivo, P., Hukka, T. I., Aernouts, T., & Heiskanen, J. P. (2017). Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties. *Dyes and Pigments*, *150*, 79-88. [j.dyepig.2017.11.014]. <https://doi.org/10.1016/j.dyepig.2017.11.014>

Nykänen, H., Rissanen, A. J., 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>

Perander, M., DeMartini, N., Brink, A., Kramb, J., Karlström, O., Hemming, 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>

Saarela, T., Rissanen, A. J., Ojala, A., Pumpanen, J., Aalto, S. L., Tirola, M., ... Jäntti, H. (2019). CH<sub>4</sub> oxidation in a boreal lake during the development of hypolimnetic hypoxia. *Aquatic Sciences*, *82*(2), [19]. <https://doi.org/10.1007/s00027-019-0690-8>

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>

Mönkäre, T. (2018). *Characterization and biological stabilization of fine fraction from landfill mining*. (Tampere University of Technology. Publication; Vol. 1522). Tampere University of Technology.

Mönkäre, T. J., Palmroth, M. R. T., & Rintala, J. A. (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>

Maanoja, S., Lakaniemi, A. M., Lehtinen, L., Salminen, L., Auvinen, H., Kokko, M., ... 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*, [105746]. <https://doi.org/10.1016/j.clay.2020.105746>

Lappalainen, J. O., Karp, M. T., Juvonen, R., Virta, M. P. J., & 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)

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>

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>

Kallistova, A. Y., Montonen, L., Jurgens, G., Münster, U., Kevbrina, M. V., & Nozhevnikova, A. N. (2013). Culturable psychrotolerant methanotrophic bacteria in landfill cover soil. *Microbiology*, *82*(6), 847-855. <https://doi.org/10.1134/S0026261714010044>

Tauriainen, S. M., Virta, M. P. J., & Karp, M. T. (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)

Santala, S. (2015). *Developing Synthetic Biology Tools and Model Chassis: Production of Bioenergy and High-Value Molecules*. (Tampere University of Technology. Publication; Vol. 1288). Tampere University of Technology.

O'Neill, M. (2015). *Ecological Sanitation - A Logical Choice? The Development of the Sanitation Institution in a World Society*. (Tampere University of Technology. Publication; Vol. 1284). Tampere University of Technology.

Çetinkaya, A. Y., Köroğlu, E. O., Demir, N. M., Baysoy, D. Y., 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)

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 Paper; No. 60276). MPRA.

Hulatt, C. J., Lakaniemi, A.-M., Puhakka, J. A., & Thomas, D. N. (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>

Maanoja, S., & Rintala, J. (2015). Factors affecting the elimination capacity of a passive methane biofilter. In *BioTechniques Ghent 2015 The 6th international conference on biotechniques for air pollution control: Conference Proceedings* (pp. 83-88)

Niemi, R. J., Roine, A. N., Eräviita, E., Kumpulainen, P. S., Mäenpää, J. U., & 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>

Barreca, D., Carraro, G., Warwick, M. E. A., Kaunisto, K., Gasparotto, A., Gombac, V., ... 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>

Zou, G., Papirio, S., van Hullebusch, E. D., & Puhakka, J. A. (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>

Salunke, J., Singh, A., He, D., Duc Pham, H., Bai, Y., Wang, L., ... 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>

Ahoranta, S., Hulkkonen, H., Salminen, T., Kuula, P., Puhakka, J. A., & Lakaniemi, A. M. (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>

Palmroth, M. R. T., Mönkäre, T. J., & Steffen, K. T. (2015). Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential. In N. Kalogerakis, F. Fava, & E. Manousaki (Eds.), *Book of abstracts of the 6th European Bioremediation Conference* (pp. 47). [169]

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), [035]. <https://doi.org/10.1093/femsec/fiv035>

Lakaniemi, A.-M., Intihar, V. M., Tuovinen, O. H., & Puhakka, J. A. (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, V. M., Tuovinen, O. H., & Puhakka, J. A. (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>

- Uusheimo, S., Huotari, J., Tulonen, T., Aalto, S. L., Rissanen, A. J., & 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>
- Zou, G., Papirio, S., Lakaniemi, A-M., Ahoranta, S. H., & Puhakka, J. A. (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>
- Di Capua, F., Lakaniemi, A-M., Puhakka, J. A., Lens, P. N. L., & 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>
- Rasa, K., Heikkinen, J., Hannula, M., Arstila, K., Kulju, S., & Hyvältuoma, 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>
- Lakaniemi, A-M., Nevatalo, L. M., Kaksonen, A. H., & Puhakka, J. A. (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>
- Masood, M. T., Weinberger, C., Sarfraz, J., Rosqvist, E., Sandén, S., Sandberg, O., ... 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>
- 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>
- 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>
- 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>
- Sörensen, J., Kurki, V., Sidoraviciute, R., Ngari Kibocha, S., Retike, I., Ikobe, G., ... Rajala, R. (2015). Interdisciplinary water research network building within Nordic and Baltic countries. *Vatten*, (71), 79-83.
- Lajunen, T., Viitala, L., Kontturi, L-S., Laaksonen, T., Liang, H., Vuorimaa-Laukkanen, E., ... 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>
- Marjakangas, J. M., Lakaniemi, A. M., Koskinen, P. E. P., Chang, J. S., & Puhakka, J. A. (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>
- 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. [11500]. <https://doi.org/10.1016/j.watres.2015.08.053>
- 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>

Kannisto, M. S., Mangayil, R. K., Shrivastava-Bhattacharya, A., Pletschke, B. I., Karp, M. T., & Santala, V. P. (2015). Metabolic engineering of *Acinetobacter baylyi* ADP1 for removal of *Clostridium butyricum* growth inhibitors produced from lignocellulosic hydrolysates. *Biotechnology for Biofuels*, *8*(1), [198]. <https://doi.org/10.1186/s13068-015-0389-6>

Nancharaiah, Y. V., Venkata Mohan, S., & Lens, P. N. L. (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, S. T., & Rintala, J. A. (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>

Kokko, M., Koskue, V., & Rintala, J. (2017). *Methane production from 30-100 year old sedimented fibre from pulp and paper industry*. Paper presented at the 15th IWA World Conference on Anaerobic Digestion, .

Tienaho, J., Sarjala, T., Franzén, R., & Karp, M. (2015). Method with high-throughput screening potential for antioxidative substances using *Escherichia coli* biosensor katG<sup>::lux</sup>. *Journal of Microbiological Methods*, *118*, 78-80. [4723]. <https://doi.org/10.1016/j.mimet.2015.08.018>

Saarenheimo, J., Aalto, S. L., Rissanen, A. J., & Tirola, M. (2017). Microbial community response on wastewater discharge in boreal lake sediments. *Frontiers in Microbiology*, *8*, [750]. <https://doi.org/10.3389/fmicb.2017.00750>

Butti, S. K., Velvizhi, G., Sulonen, M. L. K., Haavisto, J. M., Oguz Koroglu, E., Yusuf Cetinkaya, A., ... 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>

Lakaniemi, A.-M., Nevatalo, L. M., Kaksonen, A. H., & Puhakka, J. A. (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>

Palmroth, M. R. T., Pispala, L., Kettunen, R. H., Hänninen, T., & Rintala, J. A. (2016). *Mitigation of propylene glycol emissions to groundwater and soil*. 191. Paper presented at Nordrocs 2016, 6th Joint Nordic Meeting on Remediation of Contaminated Sites, Espoo, Finland.

Kramb, J., DeMartini, N., Perander, M., Moilanen, A., & Konttinen, 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>

Sariola-Leikas, E. (2015). *Organic Chromophores in Self-Assembled Monolayers and Supramolecular Arrays*. (Tampere University of Technology. Publication; Vol. 1334). Tampere University of Technology.

Eregowda, T., Matanhike, L., Rene, E. R., & Lens, P. N. L. (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>

Stumpel, J. E., ter Schiphorst, J., & Schenning, A. P. H. J. (2017). Photoresponsive Polymer Hydrogel Coatings that Change Topography. In D. Liu, & D. Broer (Eds.), *Responsive Polymer Surfaces: Dynamics in Surface Topography* (pp. 159-173). Wiley-VCH. <https://doi.org/10.1002/9783527690534.ch7>

Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., ... Lens, P. N. L. (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>

Lakaniemi, A.-M., Tuovinen, O. H., & Puhakka, J. A. (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>

Marjakangas, J. (2015). *Production of Oleaginous Microbial Biomass by Reusing Wastewaters*. (Tampere University of Technology. Publication; Vol. 1348). Tampere University of Technology.

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>

Mangayil, R., Karp, M., Lamminmäki, U., & Santala, V. (2016). Recombinant antibodies for specific detection of clostridial [Fe-Fe] hydrogenases. *Scientific Reports*, 6, [36034]. <https://doi.org/10.1038/srep36034>

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>

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

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>

Watsuntorn, W., Khanongnuch, R., Chulalaksananukul, W., Rene, E. R., & Lens, P. N. L. (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>

Aalto, S. L., Saarenheimo, J., Mikkonen, A., Rissanen, A. J., & Tiirola, 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>

Santala, S., Efimova, E., Koskinen, P., Karp, M. T., & 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>

Mönkäre, T. J., Palmroth, M. R. T., & Rintala, J. A. (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>

Bajamundi, C. J. E., 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, J. M., Chen, C-Y., Lakaniemi, A-M., Puhakka, J. A., 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>

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>

Nancharaiah, Y. V., & Lens, P. N. L. (2015). Selenium biomineralization for biotechnological applications. *Trends in Biotechnology*, 33(6), 323-330. <https://doi.org/10.1016/j.tibtech.2015.03.004>

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>

Aisala, H., Laaksonen, O., Manninen, H., Raittola, 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>

Marjakangas, J. M., Chen, C. Y., Lakaniemi, A. M., Puhakka, J. A., Whang, L. M., & Chang, J. S. (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>

Mönkäre, T. J., Palmroth, M. R. T., & Rintala, J. A. (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>

Nykänen, H., Mpamah, P. A., & Rissanen, A. J. (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>

Singh, S., Kokko, M., & Rintala, J. (2017). *Start-up of anaerobic digester treating LCFA containing wastewater at low temperature*. Paper presented at 1st International ABWET conference, .

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

Björling, A., Berntsson, O., Lehtivuori, H., Takala, H., Hughes, A. J., Panman, M., ... Westenhoff, S. (2016). Structural photoactivation of a full-length bacterial phytochrome. *Science Advances*, *2*(8), [e1600920]. <https://doi.org/10.1126/sciadv.1600920>

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>

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

Lappalainen, J., Baudouin, D., Hornung, U., Schuler, J., Melin, K., Bjelić, S., ... Joronen, T. (2020). Sub- and Supercritical Water Liquefaction of Kraft Lignin and Black Liquor Derived Lignin. *Energies*, *13*(13), [3309]. <https://doi.org/10.3390/en13133309>

Dhieb, A. C., 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>

Dessi, P., Porca, E., Lakaniemi, A-M., Collins, G., & Lens, P. N. L. (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>

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*. Paper presented at 13th International Mine Water Association Congress – “Mine Water & Circular Economy – A Green Congress”, .

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>

Kainulainen, T. P., Sirviö, J. A., Sethi, J., Hukka, T. I., & Heiskanen, J. P. (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>

Katko, T. (2015). Vesihuolto tarvitsee tutkimusta ja koulutusta. *Kuntatekniikka*, (2), 17.

Juuti, P., & Katko, T. (2014). Water supply and sanitation services in finland before world war 2. *Flux*, 97-98(4), 80-87.