

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*, vol. 20, no. 10, pp. 3616-3628. <https://doi.org/10.1111/1462-2920.14354>

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>

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

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*, vol. 155, pp. 25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

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*, vol. 17, no. 32, pp. 6219-6226. <https://doi.org/10.1039/c5ce00883b>

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*, vol. 2, no. 8, e1600920. <https://doi.org/10.1126/sciadv.1600920>

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*, vol. 53, pp. 462-476. <https://doi.org/10.1016/j.rser.2015.08.058>

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*, vol. 36, no. 7, pp. 1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)

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*, vol. 143, pp. 209-217. <https://doi.org/10.1016/j.watres.2018.06.054>

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*, vol. 109, pp. 10-23. <https://doi.org/10.1016/j.rser.2019.04.012>

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*, vol. 39, no. 12, pp. 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*, vol. 13, no. 1, 48. <https://doi.org/10.1186/1475-2859-13-48>

Dessì, 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*, vol. 137, pp. 214-221. <https://doi.org/10.1016/j.bej.2018.05.027>

- 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*, vol. 1102, pp. 50-56. <https://doi.org/10.1016/j.molstruc.2015.08.044>
- 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*, vol. 310, Part 1, pp. 282-291. <https://doi.org/10.1016/j.cej.2016.10.117>
- Doddapaneni, TRKC, Praveenkumar, R, Tolvanen, H, Palmroth, MRT, Konttinen, J & Rintala, J 2017, 'Anaerobic batch conversion of pine wood torrefaction condensate', *Bioresource Technology*, vol. 225, pp. 299-307. <https://doi.org/10.1016/j.biortech.2016.11.073>
- 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*, vol. 263, pp. 591-600. <https://doi.org/10.1016/j.biortech.2018.04.095>
- 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*, vol. 9, no. 1, 4049. <https://doi.org/10.1038/s41467-018-06183-4>
- Haavisto, JM, Lakaniemi, A-M & Puhakka, JA 2019, 'Storing of exoelectrogenic anolyte for efficient microbial fuel cell recovery', *Environmental Technology*, vol. 40, no. 11. <https://doi.org/10.1080/09593330.2017.1423395>
- 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, 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*, vol. 5, no. 3, pp. 669-684. <https://doi.org/10.1007/s12155-011-9175-x>
- Jaatinen, S, Lakaniemi, A-M & Rintala, J 2016, 'Use of diluted urine for cultivation of *Chlorella vulgaris*', *Environmental Technology*, vol. 37, no. 9, pp. 1159-1170. <https://doi.org/10.1080/09593330.2015.1105300>
- 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*, vol. 284, pp. 917-925. <https://doi.org/10.1016/j.cej.2015.08.144>
- 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", 25/06/17 - 30/06/17, .
- Juuti, P & Katko, T 2014, 'Water supply and sanitation services in finland before world war 2', *Flux*, vol. 97-98, no. 4, pp. 80-87.
- Kainulainen, TP, Sirviö, JA, Sethi, J, Hukka, TI & Heiskanen, JP 2018, 'UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol', *Macromolecules*, vol. 51, no. 5, pp. 1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>
- Kallistova, AY, Montonen, L, Jurgens, G, Münster, U, Kevbrina, MV & Nozhevnikova, AN 2013, 'Culturable psychrotolerant methanotrophic bacteria in landfill cover soil', *Microbiology*, vol. 82, no. 6, pp. 847-855. <https://doi.org/10.1134/S0026261714010044>

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*, vol. 80, no. 22, pp. 7021-7027. <https://doi.org/10.1128/AEM.01837-14>

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*, vol. 8, no. 1, 198. <https://doi.org/10.1186/s13068-015-0389-6>

Katko, T 2015, 'Vesihuolto tarvitsee tutkimusta ja koulutusta', *Kuntatekniikka*, no. 2, pp. 17.

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*, vol. 87, 11500, pp. 105-111. <https://doi.org/10.1016/j.watres.2015.08.053>

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, 17/10/17 - 20/10/17, .

Korpela, MT, Kurittu, JS, Karvinen, JT & Karp, MT 1998, 'A recombinant *Escherichia coli* sensor strain for the detection of tetracyclines', *Analytical Chemistry*, vol. 70, no. 21, pp. 4457-4462. <https://doi.org/10.1021/ac980740e>

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*, vol. 148, pp. 50-59. <https://doi.org/10.1016/j.fuproc.2016.01.031>

Kurki, V, Takala, A & Vinnari, E 2016, 'Clashing coalitions: A discourse analysis of an artificial groundwater recharge project in Finland', *Local Environment*, vol. 21, no. 11, pp. 1317-1331. <https://doi.org/10.1080/13549839.2015.1113516>

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

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*, vol. 26, 10. <https://doi.org/10.19189/MaP.2019.OMB.StA.1786>

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*, vol. 203, pp. 85-98. <https://doi.org/10.1016/j.jconrel.2015.02.028>

Lakaniemi, A-M, Tuovinen, OH & Puhakka, JA 2012, 'Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells', *BioEnergy Research*, vol. 5, no. 2, pp. 481-491. <https://doi.org/10.1007/s12155-012-9186-2>

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*, vol. 101, no. 11, pp. 3931-3939. <https://doi.org/10.1016/j.biortech.2010.01.020>

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*, vol. 39, no. 9, pp. 1357-1365. <https://doi.org/10.1007/s10295-012-1133-x>

Lakaniemi, A-M, Intihar, VM, Tuovinen, OH & Puhakka, JA 2012, 'Growth of *Chlorella vulgaris* and associated bacteria in photobioreactors', *Microbial Biotechnology*, vol. 5, no. 1, pp. 69-78. <https://doi.org/10.1111/j.1751-7915.2011.00298.x>

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*, vol. 20-21, pp. 326-326. <https://doi.org/10.4028/www.scientific.net/AMR.20-21.326>

Lakaniemi, A-M, Koskinen, PEP, Nevatalo, LM, Kaksonen, AH & Puhakka, JA 2011, 'Biogenic hydrogen and methane production from reed canary grass', *Biomass & Bioenergy*, vol. 35, no. 2, pp. 773-780. <https://doi.org/10.1016/j.biombioe.2010.10.032>

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*, vol. 4, no. 1, 34, pp. 1-12. <https://doi.org/10.1186/1754-6834-4-34>

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*, vol. 15, no. 5, pp. 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)

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*, vol. 13, no. 13, 3309. <https://doi.org/10.3390/en13133309>

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*, vol. 4, no. 3, pp. 119-124. <https://doi.org/10.1021/acs.estlett.7b00024>

Maanoja, ST & Rintala, JA 2015, 'Methane oxidation potential of boreal landfill cover materials: The governing factors and enhancement by nutrient manipulation', *Waste Management*, vol. 46, pp. 399-407. <https://doi.org/10.1016/j.wasman.2015.08.011>

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, BioTechniques Ghent 2015, The 6th international conference on biotechniques for air pollution control, Ghent, Belgium, 2/09/15.

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*, vol. 196, 105746. <https://doi.org/10.1016/j.clay.2020.105746>

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

Mangayil, R, Aho, T, Karp, M & Santala, V 2015, 'Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components', *Renewable Energy*, vol. 75, pp. 583-589. <https://doi.org/10.1016/j.renene.2014.10.051>

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

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*, vol. 53, pp. 81-89. <https://doi.org/10.1016/j.nbt.2019.07.003>

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*, vol. 99, pp. 48-54. <https://doi.org/10.1016/j.bej.2015.03.006>

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*, vol. 103, pp. 177-184. <https://doi.org/10.1016/j.bej.2015.07.011>

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*, vol. 191, pp. 369-376. <https://doi.org/10.1016/j.biortech.2015.02.075>

Marjakangas, J 2015, *Production of Oleaginous Microbial Biomass by Reusing Wastewaters*. Tampere University of Technology. Publication, vol. 1348, Tampere University of Technology.

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*, vol. 44. <https://doi.org/10.1016/j.algal.2019.101716>

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*, vol. 9, no. 21, pp. 17906-17913. <https://doi.org/10.1021/acsami.7b02868>

Meng, L, Alter, T, Aho, T & Huehn, S 2015, 'Gene expression profiles of *Vibrio parahaemolyticus* in viable but non-culturable state', *FEMS Microbiology Ecology*, vol. 91, no. 5, 035. <https://doi.org/10.1093/femsec/fiv035>

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

Mönkäre, TJ, Palmroth, MRT & Rintala, JA 2015, 'Stabilization of fine fraction from landfill mining in anaerobic and aerobic laboratory leach bed reactors', *Waste Management*, vol. 45, pp. 468-475. <https://doi.org/10.1016/j.wasman.2015.06.040>

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

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

Nancharaiah, YV & Lens, PNL 2015, 'Selenium biomineralization for biotechnological applications', *Trends in Biotechnology*, vol. 33, no. 6, pp. 323-330. <https://doi.org/10.1016/j.tibtech.2015.03.004>

Nancharaiah, YV, Venkata Mohan, S & Lens, PNL 2015, 'Metals removal and recovery in bioelectrochemical systems: A review', *Bioresource Technology*, vol. 195, pp. 102-114. <https://doi.org/10.1016/j.biortech.2015.06.058>

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*, vol. 151, no. 3, pp. 519-524. <https://doi.org/10.1016/j.ygyno.2018.09.016>

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*, vol. 54, no. 6. <https://doi.org/10.1080/10256016.2018.1523158>

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>

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>

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.

Palmroth, MRT, Mönkäre, TJ & Steffen, KT 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.*, 169, pp. 47, 6th European Bioremediation Conference, Chania, Greece, 29/06/15.

Palmroth, MRT, Pispä, L, Kettunen, RH, Hänninen, T & Rintala, JA 2016, 'Mitigation of propylene glycol emissions to groundwater and soil' Paper presented at Nordrocs 2016, 6th Joint Nordic Meeting on Remediation of Contaminated Sites, Espoo, Finland, 5/09/16 - 8/09/16, pp. 191.

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*, vol. 231, pp. 1293-1302. <https://doi.org/10.1016/j.jenvman.2018.10.002>

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*, vol. 150, pp. 464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

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*, vol. 119, pp. 346-353. <https://doi.org/10.1016/j.biombioe.2018.10.004>

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*, vol. 82, no. 2, 19. <https://doi.org/10.1007/s00027-019-0690-8>

Saarenheimo, J, Aalto, SL, Rissanen, AJ & Tirola, M 2017, 'Microbial community response on wastewater discharge in boreal lake sediments', *Frontiers in Microbiology*, vol. 8, 750. <https://doi.org/10.3389/fmicb.2017.00750>

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>

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.

Santala, S, Efimova, E, Koskinen, P, Karp, MT & Santala, V 2014, 'Rewiring the wax ester production pathway of acinetobacter baylyi ADP1', *ACS Synthetic Biology*, vol. 3, no. 3, pp. 145-151. <https://doi.org/10.1021/sb4000788>

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

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, 19/01/17 - 20/01/17, .

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, 17/10/17 - 20/10/17, .

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*, vol. 150, j.dyepig.2017.11.014, pp. 79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>

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*, no. 71, pp. 79-83.

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*, vol. 51, pp. 257-269. <https://doi.org/10.1016/j.biomaterials.2015.02.005>

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

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", 25/06/17 - 30/06/17, .

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, 3/10/17 - 6/10/17, .

Taddeo, R & Lepistö, R 2015, 'Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors', *Water Science and Technology*, vol. 71, no. 6, pp. 892-897. <https://doi.org/10.2166/wst.2015.045>

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*, vol. 94, pp. 86-92. <https://doi.org/10.1016/j.jclepro.2015.01.086>

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*, vol. 220, pp. 47-54. <https://doi.org/10.1016/j.biortech.2016.08.058>

Tan, LC, Nancharaiyah, 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*, vol. 211, pp. 684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Tauriainen, SM, Virta, MPJ & Karp, MT 2000, 'Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria', *Water Research*, vol. 34, no. 10, pp. 2661-2666. [https://doi.org/10.1016/S0043-1354\(00\)00005-1](https://doi.org/10.1016/S0043-1354(00)00005-1)

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*, vol. 118, pp. 4723, pp. 78-80. <https://doi.org/10.1016/j.mimet.2015.08.018>

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*, vol. 191, pp. 96-106. <https://doi.org/10.1016/j.biosystemseng.2020.01.006>

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*, vol. 52, no. 22, pp. 13343-13350. <https://doi.org/10.1021/acs.est.8b03032>

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*, pp. 119351. <https://doi.org/10.1016/j.jclepro.2019.119351>

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*, vol. 825, pp. 500-503. <https://doi.org/10.4028/www.scientific.net/AMR.825.500>

Zou, G, Papirio, S, van Hullebusch, ED & Puhakka, JA 2015, 'Fluidized-bed denitrification of mining water tolerates high nickel concentrations', *Bioresource Technology*, vol. 179, pp. 284-290. <https://doi.org/10.1016/j.biortech.2014.12.044>

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

Zou, G 2015, *Biological Nitrogen Removal from Acidic, Heavy-metal Containing Waters*. Tampere University of Technology. Publication, vol. 1314, Tampere University of Technology, Tampere.