

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

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

Aisala H, Laaksonen O, Manninen H, Raitola A, Hopia A, Sandell M. **Sensory properties of Nordic edible mushrooms.** *Food Research International*. 2018 Jul 1;109:526-536. <https://doi.org/10.1016/j.foodres.2018.04.059>

Bajamundi CJE, Vainikka P, Hedman M, Silvennoinen J, Heinanen T, Taipale R et al. **Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel.** *Fuel*. 2015 Sep 1;155:25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

Barreca D, Carraro G, Warwick MEA, Kaunisto K, Gasparotto A, Gombac V et al. **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*. 2015 Aug 28;17(32):6219-6226. <https://doi.org/10.1039/c5ce00883b>

Björling A, Berntsson O, Lehtivuori H, Takala H, Hughes AJ, Panman M et al. **Structural photoactivation of a full-length bacterial phytochrome.** *Science Advances*. 2016 Aug 12;2(8). e1600920. <https://doi.org/10.1126/sciadv.1600920>

Butti SK, Velvizhi G, Sulonen MLK, Haavisto JM, Oguz Koroglu E, Yusuf Cetinkaya A et al. **Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling.** *Renewable and Sustainable Energy Reviews*. 2016 Jan;53:462-476. <https://doi.org/10.1016/j.rser.2015.08.058>

Çetinkaya AY, Köroğlu EO, Demir NM, Baysoy DY, Özkaya B, Çakmakçı M. **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration.** *Chinese Journal of Catalysis*. 2015 Jul 20;36(7):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. **Remediation of sedimented fiber originating from pulp and paper industry: Laboratory scale anaerobic reactor studies and ideas of scaling up.** *Water Research*. 2018 Oct 15;143:209-217. <https://doi.org/10.1016/j.watres.2018.06.054>

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

Ciranna A, Ferrari R, Santala V, Karp M. **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*. 2014 Apr 15;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. **Assessment of metabolic flux distribution in the thermophilic hydrogen producer *Caloramator celer* as affected by external pH and hydrogen partial pressure.** *Microbial Cell Factories*. 2014 Mar 28;13(1). 48. <https://doi.org/10.1186/1475-2859-13-48>

Dessi P, Porca E, Lakaniemi A-M, Collins G, Lens PNL. **Temperature control as key factor for optimal biohydrogen production from thermomechanical pulping wastewater.** *Biochemical Engineering Journal*. 2018 Sep 15;137:214-221. <https://doi.org/10.1016/j.bej.2018.05.027>

Dhieb AC, Valkonen A, Rzaigui M, Smirani W. **Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate.** *Journal of Molecular Structure*. 2015 Dec 15;1102:50-56. <https://doi.org/10.1016/j.molstruc.2015.08.044>

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

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

Eregowda T, Matanhike L, Rene ER, Lens PNL. **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. 2018 Sep 1;263:591-600. <https://doi.org/10.1016/j.biortech.2018.04.095>

Ferreira SA, Motwani MS, Faull PA, Seymour AJ, Yu TTL, Enayati M et al. **Bi-directional cell-pericellular matrix interactions direct stem cell fate**. Nature Communications. 2018 Dec;9(1). 4049. <https://doi.org/10.1038/s41467-018-06183-4>

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

Heino O, Anttiroiko A-V. **Enabling and Integrative Infrastructure Policy: The Role of Inverse Infrastructures in Local Infrastructure Provision with Special Reference to Finnish Water Cooperatives**. MPRA, 2014. (MPRA Paper; 60276).

Hulatt CJ, Lakaniemi A-M, Puhakka JA, Thomas DN. **Energy Demands of Nitrogen Supply in Mass Cultivation of Two Commercially Important Microalgal Species, Chlorella vulgaris and Dunaliella tertiolecta**. BioEnergy Research. 2012;5(3):669-684. <https://doi.org/10.1007/s12155-011-9175-x>

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

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

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

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

Kainulainen TP, Sirviö JA, Sethi J, Hukka TI, Heiskanen JP. **UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol**. Macromolecules. 2018 Feb 21;51(5):1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>

Kallistova AY, Montonen L, Jurgens G, Münster U, Kevbrina MV, Nozhevnikova AN. **Culturable psychrotolerant methanotrophic bacteria in landfill cover soil**. Microbiology. 2013;82(6):847-855. <https://doi.org/10.1134/S0026261714010044>

Kannisto M, Aho T, Karp M, Santala V. **Metabolic engineering of Acinetobacter baylyi ADP1 for improved growth on gluconate and glucose**. Applied and Environmental Microbiology. 2014;80(22):7021-7027. <https://doi.org/10.1128/AEM.01837-14>

Kannisto MS, Mangayil RK, Shrivastava-Bhattacharya A, Pletschke BI, Karp MT, Santala VP. **Metabolic engineering of Acinetobacter baylyi ADP1 for removal of Clostridium butyricum growth inhibitors produced from lignocellulosic hydrolysates**. Biotechnology for Biofuels. 2015 Dec 1;8(1). 198. <https://doi.org/10.1186/s13068-015-0389-6>

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

Kinnunen V, Ylä-Outinen A, Rintala J. **Mesophilic anaerobic digestion of pulp and paper industry biosludge-long-term reactor performance and effects of thermal pretreatment.** Water Research. 2015 Dec 15;87:105-111. 11500. <https://doi.org/10.1016/j.watres.2015.08.053>

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

Korpela MT, Kurittu JS, Karvinen JT, Karp MT. **A recombinant Escherichia coli sensor strain for the detection of tetracyclines.** Analytical Chemistry. 1998 Nov 1;70(21):4457-4462. <https://doi.org/10.1021/ac980740e>

Kramb J, DeMartini N, Perander M, Moilanen A, Konttinen J. **Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO<sub>2</sub>.** Fuel Processing Technology. 2016 Jul 1;148:50-59. <https://doi.org/10.1016/j.fuproc.2016.01.031>

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

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

Laasasenaho K, Renzi F, Karjalainen H, Kaparaju P, Konttinen J, Rintala J. **Biogas and combustion potential of fresh reed canary grass grown on cutover peatland.** Mires and Peat. 2020;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 et al. **Light induced cytosolic drug delivery from liposomes with gold nanoparticles.** Journal of Controlled Release. 2015 Apr 10;203:85-98. <https://doi.org/10.1016/j.jconrel.2015.02.028>

Lakaniemi A-M, Tuovinen OH, Puhakka JA. **Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells.** BioEnergy Research. 2012;5(2):481-491. <https://doi.org/10.1007/s12155-012-9186-2>

Lakaniemi A-M, Nevatalo LM, Kaksonen AH, Puhakka JA. **Mine wastewater treatment using Phalaris arundinacea plant material hydrolyzate as substrate for sulfate-reducing bioreactor.** Bioresource Technology. 2010;101(11):3931-3939. <https://doi.org/10.1016/j.biortech.2010.01.020>

Lakaniemi A-M, Intihar VM, Tuovinen OH, Puhakka JA. **Growth of Dunaliella tertiolecta and associated bacteria in photobioreactors.** Journal of Industrial Microbiology and Biotechnology. 2012;39(9):1357-1365. <https://doi.org/10.1007/s10295-012-1133-x>

Lakaniemi A-M, Intihar VM, Tuovinen OH, Puhakka JA. **Growth of Chlorella vulgaris and associated bacteria in photobioreactors.** Microbial Biotechnology. 2012;5(1):69-78. <https://doi.org/10.1111/j.1751-7915.2011.00298.x>

Lakaniemi A-M, Nevatalo LM, Kaksonen AH, Puhakka JA. **Hydrolysed cellulose material as sulfate reduction electron donor to treat metal- and sulfate containing waste water.** Advanced Materials Research. 2007;20-21:326-326. <https://doi.org/10.4028/www.scientific.net/AMR.20-21.326>

Lakaniemi A-M, Koskinen PEP, Nevatalo LM, Kaksonen AH, Puhakka JA. **Biogenic hydrogen and methane production from reed canary grass.** Biomass & Bioenergy. 2011;35(2):773-780. <https://doi.org/10.1016/j.biombioe.2010.10.032>

Lakaniemi A-M, Hulatt CJ, Thomas DN, Tuovinen OH, Puhakka JA. **Biogenic hydrogen and methane production from *Chlorella vulgaris* and *Dunaliella tertiolecta* biomass.** *Biotechnology for Biofuels*. 2011;4(1):1-12. 34. <https://doi.org/10.1186/1754-6834-4-34>

Lappalainen JO, Karp MT, Juvonen R, Virta MPJ, Nurmi J. **Comparison of the total mercury content in sediment samples with a mercury sensor bacteria test and *Vibrio fischeri* toxicity test.** *Environmental Toxicology*. 2000 Dec;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)

Lappalainen J, Baudouin D, Hornung U, Schuler J, Melin K, Bjelić S et al. **Sub- and Supercritical Water Liquefaction of Kraft Lignin and Black Liquor Derived Lignin.** *Energies*. 2020 Jun 28;13(13). 3309. <https://doi.org/10.3390/en13133309>

Ledezma P, Jermakka J, Keller J, Freguia S. **Recovering Nitrogen as a Solid without Chemical Dosing: Bio-Electroconcentration for Recovery of Nutrients from Urine.** *Environmental Science and Technology Letters*. 2017 Mar 14;4(3):119-124. <https://doi.org/10.1021/acs.estlett.7b00024>

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

Maanoja S, Rintala J. **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*. 2015. p. 83-88

Maanoja S, Lakaniemi AM, Lehtinen L, Salminen L, Auvinen H, Kokko M et al. **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*. 2020 Oct 1;196. 105746. <https://doi.org/10.1016/j.clay.2020.105746>

Mangayil R. **Biohydrogen Production: A Protein to Community Level Perspective Study.** Tampere University of Technology, 2015. 89 p. (Tampere University of Technology. Publication).

Mangayil R, Aho T, Karp M, Santala V. **Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components.** *Renewable Energy*. 2015 Mar 1;75:583-589. <https://doi.org/10.1016/j.renene.2014.10.051>

Mangayil R, Karp M, Lamminmäki U, Santala V. **Recombinant antibodies for specific detection of clostridial [Fe-Fe] hydrogenases.** *Scientific Reports*. 2016 Oct 27;6. 36034. <https://doi.org/10.1038/srep36034>

Mangayil R, Efimova E, Konttinen J, Santala V. **Co-production of 1,3 propanediol and long-chain alkyl esters from crude glycerol.** *New Biotechnology*. 2019 Jul 11;53:81-89. <https://doi.org/10.1016/j.nbt.2019.07.003>

Marjakangas JM, Lakaniemi AM, Koskinen PEP, Chang JS, Puhakka JA. **Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent.** *Biochemical Engineering Journal*. 2015 Jul 5;99:48-54. <https://doi.org/10.1016/j.bej.2015.03.006>

Marjakangas JM, Chen CY, Lakaniemi AM, Puhakka JA, Whang LM, Chang JS. **Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggy wastewater.** *Biochemical Engineering Journal*. 2015 Nov 5;103:177-184. <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. **Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggy wastewater.** *Bioresource Technology*. 2015 Sep;191:369-376. <https://doi.org/10.1016/j.biortech.2015.02.075>

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

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

Masood MT, Weinberger C, Sarfraz J, Rosqvist E, Sandén S, Sandberg O et al. **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*. 2017 May 31;9(21):17906-17913. <https://doi.org/10.1021/acsami.7b02868>

Meng L, Alter T, Aho T, Huehn S. **Gene expression profiles of *Vibrio parahaemolyticus* in viable but non-culturable state.** *FEMS Microbiology Ecology*. 2015 May;91(5). 035. <https://doi.org/10.1093/femsec/fiv035>

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

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

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

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

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

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

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

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

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

Okonkwo O, Escudié R, Bernet N, Mangayil R, Lakaniemi A-M, Trably E. **Bioaugmentation enhances dark fermentative hydrogen production in cultures exposed to short-term temperature fluctuations.** *Applied Microbiology and Biotechnology*. 2019 Nov 21. <https://doi.org/10.1007/s00253-019-10203-8>

O'Neill M. **Ecological Sanitation - A Logical Choice? The Development of the Sanitation Institution in a World Society.** Tampere University of Technology, 2015. 236 p. (Tampere University of Technology. Publication).

Palmroth MRT, Mönkäre TJ, Steffen KT. **Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential.** In Kalogerakis N, Fava F, Manousaki E, editors, *Book of abstracts of the 6th European Bioremediation Conference*. 2015. p. 47. 169

Palmroth MRT, Pispala L, Kettunen RH, Hänninen T, Rintala JA. **Mitigation of propylene glycol emissions to groundwater and soil.** 2016. Paper presented at Nordrocs 2016, 6th Joint Nordic Meeting on Remediation of Contaminated Sites, Espoo, Finland.

Pastor-Poquet V, Papirio S, Trably E, Rintala J, Escudié R, Esposito G. **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. 2019 Feb 1;231:1293-1302. <https://doi.org/10.1016/j.jenvman.2018.10.002>

Perander M, DeMartini N, Brink A, Krumb J, Karlström O, Hemming J et al. **Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char.** Fuel. 2015 Jun 15;150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

Rasa K, Heikkinen J, Hannula M, Arstila K, Kulju S, Hyväluoma J. **How and why does willow biochar increase a clay soil water retention capacity?** Biomass and Bioenergy. 2018 Dec 1;119:346-353. <https://doi.org/10.1016/j.biombioe.2018.10.004>

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

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

Salunke J, Singh A, He D, Duc Pham H, Bai Y, Wang L et al. **Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells.** Organic Electronics. 2019 Nov 9. <https://doi.org/10.1016/j.orgel.2019.105524>

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

Santala S, Efimova E, Koskinen P, Karp MT, Santala V. **Rewiring the wax ester production pathway of acinetobacter baylyi ADP1.** ACS Synthetic Biology. 2014 Mar 21;3(3):145-151. <https://doi.org/10.1021/sb4000788>

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

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

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

Sippola RJ, Hadipour A, Kastinen T, Vivo P, Hukka TI, Aernouts T et al. **Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties.** Dyes and Pigments. 2017 Nov 8;150:79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>

Sörensen J, Kurki V, Sidoraviciute R, Ngari Kibocha S, Retike I, Ikobe G et al. **Interdisciplinary water research network building within Nordic and Baltic countries.** Vatten. 2015;(71):79-83.

Sorkio AE, Vuorimaa-Laukkanen EP, Hakola HM, Liang H, Ujula TA, Valle-Delgado JJ et al. **Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells.** Biomaterials. 2015 May 1;51:257-269. <https://doi.org/10.1016/j.biomaterials.2015.02.005>

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

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

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

Taddeo R, Lepistö R. **Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors**. *Water Science and Technology*. 2015;71(6):892-897. <https://doi.org/10.2166/wst.2015.045>

Tampio E, Ervasti S, Rintala J. **Characteristics and agronomic usability of digestates from laboratory digesters treating food waste and autoclaved food waste**. *Journal of Cleaner Production*. 2015 May 1;94:86-92. <https://doi.org/10.1016/j.jclepro.2015.01.086>

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

Tan LC, Nancharaiah YV, Lu S, van Hullebusch ED, Gerlach R, Lens PNL. **Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0**. *Chemosphere*. 2018 Nov 1;211:684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Tauriainen SM, Virta MPJ, Karp MT. **Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria**. *Water Research*. 2000 Jul;34(10):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. **Method with high-throughput screening potential for antioxidative substances using *Escherichia coli* biosensor katG<sup>+</sup>:lux**. *Journal of Microbiological Methods*. 2015;118:78-80. 4723. <https://doi.org/10.1016/j.mimet.2015.08.018>

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

Uusheimo S, Huotari J, Tulonen T, Aalto SL, Rissanen AJ, Arvola L. **High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate**. *Environmental science & technology*. 2018 Nov 20;52(22):13343-13350. <https://doi.org/10.1021/acs.est.8b03032>

Watsuntorn W, Khanongnuch R, Chulalaksananukul W, Rene ER, Lens PNL. **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*. 2019 Nov 18;119351. <https://doi.org/10.1016/j.jclepro.2019.119351>

Zou G, Ylinen A, Di Capua F, Papirio S, Lakaniemi A-M, Puhakka J. **Impact of heavy metals on denitrification of simulated mining wastewaters**. *Advanced Materials Research*. 2013;825:500-503. <https://doi.org/10.4028/www.scientific.net/AMR.825.500>

Zou G, Papirio S, van Hullebusch ED, Puhakka JA. **Fluidized-bed denitrification of mining water tolerates high nickel concentrations**. *Bioresource Technology*. 2015 Mar 1;179:284-290. <https://doi.org/10.1016/j.biortech.2014.12.044>

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

Zou G. **Biological Nitrogen Removal from Acidic, Heavy-metal Containing Waters**. Tampere: Tampere University of Technology, 2015. 92 p. (Tampere University of Technology. Publication).