

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

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

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

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

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).

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

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

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).

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).

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, .

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, .

Palmroth MRT, Pispä 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.

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”, .

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, .

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”, .

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

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

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>

Nancharaiah 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>

Sörensen J, Kurki V, Sidaraviciute 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.

Nancharaiah 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>

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>

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>

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

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

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>

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>

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>

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>

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>

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>

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>

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>

Tan LC, Nancharaiyah 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>

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>

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. [j.dyepig.2017.11.014](https://doi.org/10.1016/j.dyepig.2017.11.014). <https://doi.org/10.1016/j.dyepig.2017.11.014>

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>

Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J et al. **Catalytic effect of Ca and K on CO₂ gasification of spruce wood char.** *Fuel*. 2015 Jun 15;150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

Saarela T, Rissanen AJ, Ojala A, Pumpanen J, Aalto SL, Tiirola M et al. **CH₄ 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>

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>

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>

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>

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>

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)

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>

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 anaerobic digestion plant as phosphorus source.** *Algal Research*. 2019 Dec;44. <https://doi.org/10.1016/j.algal.2019.101716>

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>

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)

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)

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>

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>

Barreca D, Carraro G, Warwick MEA, Kaunisto K, Gasparotto A, Gombac V et al. **Fe₂O₃-TiO₂ 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>

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>

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>

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>

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>

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, 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>

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>

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>

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>

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>

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>

Masood MT, Weinberger C, Sarfraz J, Rosqvist E, Sandén S, Sandberg O et al. **Impact of film thickness of ultra-thin dip-coated compact TiO₂ 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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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>

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>

Kramb J, DeMartini N, Perander M, Moilanen A, Kontinen J. **Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO₂**. *Fuel Processing Technology*. 2016 Jul 1;148:50-59. <https://doi.org/10.1016/j.fuproc.2016.01.031>

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>

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>

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>

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>

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>

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>

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>

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;119:351. <https://doi.org/10.1016/j.jclepro.2019.119351>

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>

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>

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>

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>

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 piggery wastewater.** *Bioresource Technology*. 2015 Sep;191:369-376. <https://doi.org/10.1016/j.biortech.2015.02.075>

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>

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>

Aisala H, Laaksonen O, Manninen H, Raittola 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>

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 piggery wastewater.** *Biochemical Engineering Journal*. 2015 Nov 5;103:177-184. <https://doi.org/10.1016/j.bej.2015.07.011>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>