

Doddapaneni, Tharaka Rama Krishna C. ; Praveenkumar, Ramasamy ; Tolvanen, Henrik ; Palmroth, Marja R. T. ; Konttinen, Jukka ; Rintala, Jukka. / **Anaerobic batch conversion of pine wood torrefaction condensate**. In: Bioresource Technology. 2017 ; Vol. 225. pp. 299-307.

Korpela, Matti T. ; Kurittu, Jussi S. ; Karvinen, Jarkko T. ; Karp, Matti T. / **A recombinant Escherichia coli sensor strain for the detection of tetracyclines**. In: Analytical Chemistry. 1998 ; Vol. 70, No. 21. pp. 4457-4462.

Ciranna, Alessandro ; Pawar, Sudhanshu S. ; Santala, Ville ; Karp, Matti ; van Niel, Ed W J. / **Assessment of metabolic flux distribution in the thermophilic hydrogen producer Caloramator celer as affected by external pH and hydrogen partial pressure**. In: Microbial Cell Factories. 2014 ; Vol. 13, No. 1.

Ferreira, Silvia A. ; Motwani, Meghna S. ; Faull, Peter A. ; Seymour, Alexis J. ; Yu, Tracy T.L. ; Enayati, Marjan ; Taheem, Dheraj K. ; Salzlechner, Christoph ; Haghghi, Tabasom ; Kania, Ewa M. ; Oommen, Oommen P. ; Ahmed, Tarek ; Loaiza, Sandra ; Parzych, Katarzyna ; Dazzi, Francesco ; Varghese, Oommen P. ; Festy, Frederic ; Grigoriadis, Agamemnon E. ; Auner, Holger W. ; Snijders, Ambrosius P. ; Bozec, Laurent ; Gentleman, Eileen. / **Bi-directional cell-pericellular matrix interactions direct stem cell fate**. In: Nature Communications. 2018 ; Vol. 9, No. 1.

Okonkwo, Onyinye ; Escudié, Renaud ; Bernet, Nicolas ; Mangayil, Rahul ; Lakaniemi, Aino-Maija ; Trably, Eric. / **Bioaugmentation enhances dark fermentative hydrogen production in cultures exposed to short-term temperature fluctuations**. In: Applied Microbiology and Biotechnology. 2019.

Sulonen, Mira ; Kokko, Marika ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko. / **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. / **Biogas and combustion potential of fresh reed canary grass grown on cutover peatland**. In: Mires and Peat. 2020 ; Vol. 26.

Lakaniemi, Aino-Maija ; Hulatt, Christopher J. ; Thomas, David N. ; Tuovinen, Olli H. ; Puhakka, Jaakko A. / **Biogenic hydrogen and methane production from Chlorella vulgaris and Dunaliella tertiolecta biomass**. In: Biotechnology for Biofuels. 2011 ; Vol. 4, No. 1. pp. 1-12.

Lakaniemi, Aino-Maija ; Koskinen, Perttu E.P. ; Nevatalo, Laura M. ; Kaksonen, Anna H. ; Puhakka, Jaakko A. / **Biogenic hydrogen and methane production from reed canary grass**. In: Biomass & Bioenergy. 2011 ; Vol. 35, No. 2. pp. 773-780.

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

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

Tan, Lea Chua ; Nancharaiah, Yarlagadda V. ; Lu, Shipeng ; van Hullebusch, Eric D. ; Gerlach, Robin ; Lens, Piet N.L. / **Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0**. In: Chemosphere. 2018 ; Vol. 211. pp. 684-693.

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

Sorkio, Anni E. ; Vuorimaa-Laukkanen, Elina P. ; Hakola, Hanna M. ; Liang, Huamin ; Ujula, Tiina A. ; Valle-Delgado, Juan José ; Österberg, Monika ; Yliperttula, Marjo L. ; Skottman, Heli. / **Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells**. In: Biomaterials. 2015 ; Vol. 51. pp. 257-269.

Sippola, Roosa J. ; Hadipour, Afshin ; Kastinen, Tuuva ; Vivo, Paola ; Hukka, Terttu I. ; Aernouts, Tom ; Heiskanen, Juha P. / **Carbazole-based small molecule electron donors : Syntheses, characterization, and material properties**. In: Dyes and Pigments. 2017 ; Vol. 150. pp. 79-88.

Nykänen, Hannu ; Rissanen, Antti J. ; Turunen, Jukka ; Tahvanainen, Teemu ; Simola, Heikki. / **Carbon storage change and  $\delta^{13}\text{C}$  transitions of peat columns in a partially forestry-drained boreal bog**. In: Plant and Soil. 2019.

Perander, M. ; DeMartini, N. ; Brink, A. ; Kramb, J. ; Karlström, O. ; Hemming, J. ; Moilanen, A. ; Konttinen, J. ; Hupa, M. / **Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char**. In: Fuel. 2015 ; Vol. 150. pp. 464-472.

Saarela, Tajja ; Rissanen, Antti J. ; Ojala, Anne ; Pumpanen, Jukka ; Aalto, Sanni L. ; Tirola, Marja ; Vesala, Timo ; Jäntti, Helena. / **CH<sub>4</sub> oxidation in a boreal lake during the development of hypolimnetic hypoxia**. In: Aquatic Sciences. 2019 ; Vol. 82, No. 2.

Tampio, Elina ; Ervasti, Satu ; Rintala, Jukka. / **Characteristics and agronomic usability of digestates from laboratory digesters treating food waste and autoclaved food waste**. In: Journal of Cleaner Production. 2015 ; Vol. 94. pp. 86-92.

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

Mönkäre, Tiina J. ; Palmroth, Marja R. T. ; Rintala, Jukka A. / **Characterization of fine fraction mined from two Finnish landfills**. In: Waste Management. 2016 ; Vol. 47A. pp. 34-39.

Kurki, Vuokko ; Takala, Annina ; Vinnari, Eija. / **Clashing coalitions : A discourse analysis of an artificial groundwater recharge project in Finland**. In: Local Environment. 2016 ; Vol. 21, No. 11. pp. 1317-1331.

Maanoja, Susanna ; Lakaniemi, Aino Maija ; Lehtinen, Leena ; Salminen, Linda ; Auvinen, Hannele ; Kokko, Marika ; Palmroth, Marja ; Muuri, Eveliina ; Rintala, Jukka. / **Compacted bentonite as a source of substrates for sulfate-reducing microorganisms in a simulated excavation-damaged zone of a spent nuclear fuel repository**. In: APPLIED CLAY SCIENCE . 2020 ; Vol. 196.

Lappalainen, Juha O. ; Karp, Matti T. ; Juvonen, Risto ; Virta, Marko P. J. ; Nurmi, Johanna. / **Comparison of the total mercury content in sediment samples with a mercury sensor bacteria test and Vibrio fischeri toxicity test**. In: Environmental Toxicology. 2000 ; Vol. 15, No. 5. pp. 443-448.

Mangayil, Rahul ; Efimova, Elena ; Konttinen, Jukka ; Santala, Ville. / **Co-production of 1,3 propanediol and long-chain alkyl esters from crude glycerol**. In: New Biotechnology. 2019 ; Vol. 53. pp. 81-89.

Markou, Giorgos ; Arapoglou, Dimitrios ; Eliopoulos, Christos ; Balafoutis, Athanasios ; Taddeo, Raffaele ; Panara, Anthi ; Thomaidis, Nikolaos. / **Cultivation and safety aspects of Arthrospira platensis (Spirulina) grown with struvite recovered from anaerobic digestion plant as phosphorus source**. In: Algal Research. 2019 ; Vol. 44.

Kallistova, A. Yu. ; Montonen, L. ; Jurgens, G. ; Münster, U. ; Kevbrina, M. V. ; Nozhevnikova, A. N. / **Culturable psychrotolerant methanotrophic bacteria in landfill cover soil**. In: Microbiology. 2013 ; Vol. 82, No. 6. pp. 847-855.

Tauriainen, S. M. ; Virta, M. P. J. ; Karp, M. T. / **Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria**. In: Water Research. 2000 ; Vol. 34, No. 10. pp. 2661-2666.

Santala, Suvi. / **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).

O'Neill, Mia. / **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).

Çetinkaya, Afşin Y. ; Köroğlu, Emre Oğuz ; Demir, Neslihan Manav ; Baysoy, Derya Yılmaz ; Özkaya, Bestamin ; Çakmakçı, Mehmet. / **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration.** In: Chinese Journal of Catalysis. 2015 ; Vol. 36, No. 7. pp. 1068-1076.

Heino, Ossi ; Anttiroiko, Ari-Veikko. / **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, Chris J. ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko A. ; Thomas, David N. / **Energy Demands of Nitrogen Supply in Mass Cultivation of Two Commercially Important Microalgal Species, *Chlorella vulgaris* and *Dunaliella tertiolecta*.** In: BioEnergy Research. 2012 ; Vol. 5, No. 3. pp. 669-684.

Maanoja, Susanna ; Rintala, Jukka. / **Factors affecting the elimination capacity of a passive methane biofilter.** BioTechniques Ghent 2015 The 6th international conference on biotechniques for air pollution control: Conference Proceedings. 2015. pp. 83-88

Niemi, Riikka J. ; Roine, Antti N. ; Eräviita, Emmi ; Kumpulainen, Pekka S. ; Mäenpää, Johanna U. ; Oksala, Niku. / **FAIMS analysis of urine gaseous headspace is capable of differentiating ovarian cancer.** In: Gynecologic Oncology. 2018 ; Vol. 151, No. 3. pp. 519-524.

Barreca, Davide ; Carraro, Giorgio ; Warwick, Michael E A ; Kaunisto, Kimmo ; Gasparotto, Alberto ; Gombac, Valentina ; Sada, Cinzia ; Turner, Stuart ; Van Tendeloo, Gustaaf ; Maccato, Chiara ; Fornasiero, Paolo. / **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.** In: CrystEngComm. 2015 ; Vol. 17, No. 32. pp. 6219-6226.

Zou, G. ; Papirio, S. ; van Hullebusch, E. D. ; Puhakka, J. A. / **Fluidized-bed denitrification of mining water tolerates high nickel concentrations.** In: Bioresource Technology. 2015 ; Vol. 179. pp. 284-290.

Salunke, Jagadish ; Singh, Amandeep ; He, Dongxu ; Duc Pham, Hong ; Bai, Yang ; Wang, Lianzhou ; Dahlström, Staffan ; Nyman, Mathias ; Manzhos, Sergei ; Feron, Krishna ; Österbacka, Ronald ; Priimägi, Arri ; Vivo, Paola ; Sonar, Prashant. / **Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells.** In: Organic Electronics. 2019.

Ahoranta, Sarita ; Hulkkonen, Hanna ; Salminen, Turkka ; Kuula, Pirjo ; Puhakka, Jaakko A. ; Lakaniemi, Aino Maija. / **Formation and use of biogenic jarosite carrier for high-rate iron oxidising biofilms.** In: Research in Microbiology. 2020.

Palmroth, Marja Riitta Tuulikki ; Mönkäre, Tiina Johanna ; Steffen, Kari T. / **Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential.** Book of abstracts of the 6th European Bioremediation Conference. editor / Nicolas Kalogerakis ; Fabio Fava ; Elena Manousaki. 2015. pp. 47

Meng, Lu ; Alter, Thomas ; Aho, Tommi ; Huehn, Stephan. / **Gene expression profiles of *Vibrio parahaemolyticus* in viable but non-culturable state.** In: FEMS Microbiology Ecology. 2015 ; Vol. 91, No. 5.

Lakaniemi, Aino-Maija ; Intihar, Veera M. ; Tuovinen, Olli H. ; Puhakka, Jaakko A. / **Growth of *Chlorella vulgaris* and associated bacteria in photobioreactors.** In: Microbial Biotechnology. 2012 ; Vol. 5, No. 1. pp. 69-78.

Lakaniemi, Aino-Maija ; Intihar, Veera M. ; Tuovinen, Olli H. ; Puhakka, Jaakko A. / **Growth of *Dunaliella tertiolecta* and associated bacteria in photobioreactors.** In: Journal of Industrial Microbiology and Biotechnology. 2012 ; Vol. 39, No. 9. pp. 1357-1365.

Uusheimo, Sari ; Huotari, Jussi ; Tulonen, Tiina ; Aalto, Sanni L. ; Rissanen, Antti J. ; Arvola, Lauri. / **High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate.** In: Environmental science & technology. 2018 ; Vol. 52, No. 22. pp. 13343-13350.

Zou, G. ; Papirio, S. ; Lakaniemi, A.-M. ; Ahoranta, S.H. ; Puhakka, J.A. / **High rate autotrophic denitrification in fluidized-bed biofilm reactors**. In: Chemical Engineering Journal. 2016 ; Vol. 284. pp. 1287-1294.

Di Capua, Francesco ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko A. ; Lens, Piet N. L. ; Esposito, Giovanni. / **High-rate thiosulfate-driven denitrification at pH lower than 5 in fluidized-bed reactor**. In: Chemical Engineering Journal. 2017 ; Vol. 310, Part 1. pp. 282-291.

Rasa, Kimmo ; Heikkinen, Jaakko ; Hannula, Markus ; Arstila, Kai ; Kulju, Sampo ; Hyväluoma, Jari. / **How and why does willow biochar increase a clay soil water retention capacity?**. In: Biomass and Bioenergy. 2018 ; Vol. 119. pp. 346-353.

Lakaniemi, A.-M. ; Nevatalo, L.M. ; Kaksonen, A.H. ; Puhakka, J.A. / **Hydrolysed cellulose material as sulfate reduction electron donor to treat metal- and sulfate containing waste water**. In: Advanced Materials Research. 2007 ; Vol. 20-21. pp. 326-326.

Masood, Muhammad Talha ; Weinberger, Christian ; Sarfraz, Jawad ; Rosqvist, Emil ; Sandén, Simon ; Sandberg, Oskar ; Vivo, Paola ; Hashmi, Ghufan ; Lund, Peter D. ; Österbacka, Ronald ; Smått, Jan-Henrik. / **Impact of film thickness of ultra-thin dip-coated compact TiO<sub>2</sub> layers on the performance of mesoscopic perovskite solar cells**. In: ACS Applied Materials and Interfaces. 2017 ; Vol. 9, No. 21. pp. 17906-17913.

Zou, Gang ; Ylinen, Anna ; Di Capua, Francesco ; Papirio, Stefano ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko. / **Impact of heavy metals on denitrification of simulated mining wastewaters**. In: Advanced Materials Research. 2013 ; Vol. 825. pp. 500-503.

Mangayil, Rahul ; Aho, Tommi ; Karp, Matti ; Santala, Ville. / **Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components**. In: Renewable Energy. 2015 ; Vol. 75. pp. 583-589.

Ciranna, Alessandro ; Ferrari, Roberto ; Santala, Ville ; Karp, Matti. / **Inhibitory effects of substrate and soluble end products on biohydrogen production of the alkalithermophile Caloramator celer : Kinetic, metabolic and transcription analyses**. In: International Journal of Hydrogen Energy. 2014 ; Vol. 39, No. 12. pp. 6391-6401.

Sörensen, Johanna ; Kurki, Vuokko ; Sidaraviciute, Ruta ; Ngari Kibocha, Samuel ; Retike, Inga ; Ikobe, Geoffrey ; Tichonovas, Martynas ; Elijosiute, Erika ; Rajala, Riikka. / **Interdisciplinary water research network building within Nordic and Baltic countries**. In: Vatten. 2015 ; No. 71. pp. 79-83.

Lajunen, Tatu ; Viitala, Lauri ; Kontturi, Leena-Stiina ; Laaksonen, Timo ; Liang, Huamin ; Vuorimaa-Laukkanen, Elina ; Viitala, Tapani ; Le Guevel, Xavier ; Yliperttula, Marjo ; Murtomaki, Lasse ; Urtti, Arto. / **Light induced cytosolic drug delivery from liposomes with gold nanoparticles**. In: Journal of Controlled Release. 2015 ; Vol. 203. pp. 85-98.

Marjakangas, Jatta M. ; Lakaniemi, Aino Maija ; Koskinen, Perttu E. P. ; Chang, Jo Shu ; Puhakka, Jaakko A. / **Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent**. In: Biochemical Engineering Journal. 2015 ; Vol. 99. pp. 48-54.

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**. In: Water Research. 2015 ; Vol. 87. pp. 105-111.

Kannisto, Matti ; Aho, Tommi ; Karp, Matti ; Santala, Ville. / **Metabolic engineering of Acinetobacter baylyi ADP1 for improved growth on gluconate and glucose**. In: Applied and Environmental Microbiology. 2014 ; Vol. 80, No. 22. pp. 7021-7027.

Kannisto, Matti S. ; Mangayil, Rahul K. ; Shrivastava-Bhattacharya, Ankita ; Pletschke, Brett I. ; Karp, Matti T. ; Santala, Ville P. / **Metabolic engineering of Acinetobacter baylyi ADP1 for removal of Clostridium butyricum growth inhibitors produced from lignocellulosic hydrolysates**. In: Biotechnology for Biofuels. 2015 ; Vol. 8, No. 1.

Nancharaiah, Y. V. ; Venkata Mohan, S. ; Lens, P.N.L. / **Metals removal and recovery in bioelectrochemical systems : A review**. In: Bioresource Technology. 2015 ; Vol. 195. pp. 102-114.

Maanoja, Susanna T. ; Rintala, Jukka A. / **Methane oxidation potential of boreal landfill cover materials: The governing factors and enhancement by nutrient manipulation**. In: Waste Management. 2015 ; Vol. 46. pp. 399-407.

Kokko, Marika ; Koskue, Veera ; Rintala, Jukka. / **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, Jenni ; Sarjala, Tytti ; Franzén, Robert ; Karp, Matti. / **Method with high-throughput screening potential for antioxidative substances using Escherichia coli biosensor katG<sup>+</sup>::lux**. In: Journal of Microbiological Methods. 2015 ; Vol. 118. pp. 78-80.

Saarenheimo, Jatta ; Aalto, Sanni L ; Rissanen, Antti J. ; Tirola, Marja. / **Microbial community response on wastewater discharge in boreal lake sediments**. In: Frontiers in Microbiology. 2017 ; Vol. 8.

Butti, Sai Kishore ; Velvizhi, G. ; Sulonen, Mira L K ; Haavisto, Johanna M. ; Oguz Koroglu, Emre ; Yusuf Cetinkaya, Afsin ; Singh, Surya ; Arya, Divyanshu ; Annie Modestra, J. ; Vamsi Krishna, K. ; Verma, Anil ; Ozkaya, Bestami ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko A. ; Venkata Mohan, S. / **Microbial electrochemical technologies with the perspective of harnessing bioenergy : Maneuvering towards upscaling**. In: Renewable and Sustainable Energy Reviews. 2016 ; Vol. 53. pp. 462-476.

Lakaniemi, Aino-Maija ; Nevatalo, Laura M ; Kaksonen, Anna H. ; Puhakka, Jaakko A. / **Mine wastewater treatment using Phalaris arundinacea plant material hydrolyzate as substrate for sulfate-reducing bioreactor**. In: Bioresource Technology. 2010 ; Vol. 101, No. 11. pp. 3931-3939.

Palmroth, Marja Riitta Tuulikki ; Pispala, Lassi ; Kettunen, Riitta Helena ; Hänninen, Tuija ; Rintala, Jukka Antero. / **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.

Kramb, Jason ; DeMartini, Nikolai ; Perander, Magnus ; Moilanen, Antero ; Kontinen, Jukka. / **Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO<sub>2</sub>**. In: Fuel Processing Technology. 2016 ; Vol. 148. pp. 50-59.

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

Eregowda, Tejaswini ; Matanhike, Luck ; Rene, Eldon R. ; Lens, Piet N.L. / **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**. In: Bioresource Technology. 2018 ; Vol. 263. pp. 591-600.

Stumpel, Jelle E. ; ter Schiphorst, Jeroen ; Schenning, Albertus P. H. J. / **Photoresponsive Polymer Hydrogel Coatings that Change Topography**. Responsive Polymer Surfaces: Dynamics in Surface Topography. editor / Danqing Liu ; Dirk Broer. Wiley-VCH, 2017. pp. 159-173

Jain, Rohan ; Dominic, Domician ; Jordan, Norbert ; Rene, Eldon R. ; Weiss, Stephan ; van Hullebusch, Eric D. ; Hübner, René ; Lens, Piet N L. / **Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles**. In: Chemical Engineering Journal. 2016 ; Vol. 284. pp. 917-925.

Lakaniemi, Aino-Maija ; Tuovinen, Olli H. ; Puhakka, Jaakko A. / **Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells**. In: BioEnergy Research. 2012 ; Vol. 5, No. 2. pp. 481-491.

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

Turunen, Mika ; Hyväluoma, Jari ; Heikkinen, Jaakko ; Keskinen, Riikka ; Kaseva, Janne ; Hannula, Markus ; Rasa, Kimmo. / **Quantifying the pore structure of different biochars and their impacts on the water retention properties of Sphagnum moss growing media**. In: Biosystems Engineering. 2020 ; Vol. 191. pp. 96-106.

Mangayil, Rahul ; Karp, Matti ; Lamminmäki, Urpo ; Santala, Ville. / **Recombinant antibodies for specific detection of clostridial [Fe-Fe] hydrogenases**. In: Scientific Reports. 2016 ; Vol. 6.

Ledezma, Pablo ; Jermakka, Johannes ; Keller, Jurg ; Freguia, Stefano. / **Recovering Nitrogen as a Solid without Chemical Dosing : Bio-Electroconcentration for Recovery of Nutrients from Urine**. In: Environmental Science and Technology Letters. 2017 ; Vol. 4, No. 3. pp. 119-124.

Sulonen, Mira ; Lakaniemi, Aino-Maija ; Kokko, Marika ; Puhakka, Jaakko. / **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, Pritha ; Lahtinen, Leija ; Kokko, Marika ; Rintala, Jukka. / **Remediation of sedimented fiber originating from pulp and paper industry : Laboratory scale anaerobic reactor studies and ideas of scaling up**. In: Water Research. 2018 ; Vol. 143. pp. 209-217.

Watsuntorn, Wannapawn ; Khanongnuch, Ramita ; Chulalaksananukul, Warawut ; Rene, Eldon R. ; Lens, Piet N.L. / **Resilient performance of an anoxic biotrickling filter for hydrogen sulphide removal from a biogas mimic: Steady, transient state and neural network evaluation**. In: Journal of Cleaner Production. 2019 ; pp. 119351.

Aalto, Sanni L. ; Saarenheimo, Jatta ; Mikkonen, Anu ; Rissanen, Antti J. ; Tirola, Marja. / **Resistant ammonia-oxidizing archaea endure, but adapting ammonia-oxidizing bacteria thrive in boreal lake sediments receiving nutrient-rich effluents**. In: Environmental Microbiology. 2018 ; Vol. 20, No. 10. pp. 3616-3628.

Santala, Suvi ; Efimova, Elena ; Koskinen, Perttu ; Karp, Matti Tapani ; Santala, Ville. / **Rewiring the wax ester production pathway of acinetobacter baylyi ADP1**. In: ACS Synthetic Biology. 2014 ; Vol. 3, No. 3. pp. 145-151.

Mönkäre, Tiina J. ; Palmroth, Marja R. T. ; Rintala, Jukka A. / **Screening biological methods for laboratory scale stabilization of fine fraction from landfill mining**. In: Waste Management. 2017 ; Vol. 60. pp. 739-747.

Bajamundi, Cyril Jose E ; Vainikka, Pasi ; Hedman, Merja ; Silvennoinen, Jaani ; Heinanen, Teemu ; Taipale, Raili ; Kontinen, Jukka. / **Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel**. In: Fuel. 2015 ; Vol. 155. pp. 25-36.

Marjakangas, Jatta M. ; Chen, Chun-Yen ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko A. ; Whang, Liang-Ming ; Chang, Jo-Shu. / **Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggery wastewater**. In: Bioresource Technology. 2015 ; Vol. 191. pp. 369-376.

Chatterjee, Pritha ; Dessì, Paolo ; Kokko, Marika ; Lakaniemi, Aino-Maija ; Lens, Piet. / **Selective enrichment of biocatalysts for bioelectrochemical systems: A critical review**. In: Renewable and Sustainable Energy Reviews. 2019 ; Vol. 109. pp. 10-23.

Nancharaiah, Yarlagadda V. ; Lens, Piet N. L. / **Selenium biomineralization for biotechnological applications**. In: Trends in Biotechnology. 2015 ; Vol. 33, No. 6. pp. 323-330.

Pastor-Poquet, Vicente ; Papirio, Stefano ; Trably, Eric ; Rintala, Jukka ; Escudié, Renaud ; Esposito, Giovanni. / **Semi-continuous mono-digestion of OFMSW and Co-digestion of OFMSW with beech sawdust : Assessment of the maximum operational total solid content.** In: Journal of Environmental Management. 2019 ; Vol. 231. pp. 1293-1302.

Aisala, Heikki ; Laaksonen, Oskar ; Manninen, Hanna ; Raittola, Auri ; Hopia, Anu ; Sandell, Mari. / **Sensory properties of Nordic edible mushrooms.** In: Food Research International. 2018 ; Vol. 109. pp. 526-536.

Marjakangas, Jatta M. ; Chen, Chun Yen ; Lakaniemi, Aino Maija ; Puhakka, Jaakko A. ; Whang, Liang Ming ; Chang, Jo Shu. / **Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggy wastewater.** In: Biochemical Engineering Journal. 2015 ; Vol. 103. pp. 177-184.

Mönkäre, T. J. ; Palmroth, M. R. T. ; Rintala, J. A. / **Stabilization of fine fraction from landfill mining in anaerobic and aerobic laboratory leach bed reactors.** In: Waste Management. 2015 ; Vol. 45. pp. 468-475.

Nykänen, Hannu ; Mpamah, Promise A. ; Rissanen, Antti J. / **Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands.** In: Isotopes in Environmental and Health Studies. 2018 ; Vol. 54, No. 6.

Singh, Suniti ; Kokko, Marika ; Rintala, Jukka. / **Start-up of anaerobic digester treating LCFA containing wastewater at low temperature.** Paper presented at 1st International ABWET conference, .

Haavisto, Johanna M. ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko A. / **Storing of exoelectrogenic anolyte for efficient microbial fuel cell recovery.** In: Environmental Technology. 2019 ; Vol. 40, No. 11.

Björling, Alexander ; Berntsson, Oskar ; Lehtivuori, Heli ; Takala, Heikki ; Hughes, Ashley J. ; Panman, Matthijs ; Hoernke, Maria ; Niebling, Stephan ; Henry, Léocadie ; Henning, Robert ; Kosheleva, Irina ; Chukharev, Vladimir ; Tkachenko, Nikolai V. ; Menzel, Andreas ; Newby, Gemma ; Khakhulin, Dmitry ; Wulff, Michael ; A. Ihalainen, Janne ; Westenhoff, Sebastian. / **Structural photoactivation of a full-length bacterial phytochrome.** In: Science Advances. 2016 ; Vol. 2, No. 8.

Taddeo, Raffaele ; Lepistö, Raghida. / **Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors.** In: Water Science and Technology. 2015 ; Vol. 71, No. 6. pp. 892-897.

Singh, Suniti ; Tolvanen, Henrik ; Kokko, Marika ; Rintala, Jukka. / **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, Jukka ; Baudouin, David ; Hornung, Ursel ; Schuler, Julia ; Melin, Kristian ; Bjelić, Saša ; Vogel, Frédéric ; Konttinen, Jukka ; Joronen, Tero. / **Sub- and Supercritical Water Liquefaction of Kraft Lignin and Black Liquor Derived Lignin.** In: Energies. 2020 ; Vol. 13, No. 13.

Dhieb, A. C. ; 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.** In: Journal of Molecular Structure. 2015 ; Vol. 1102. pp. 50-56.

Dessi, Paolo ; Porca, Estefania ; Lakaniemi, Aino-Maija ; Collins, Gavin ; Lens, Piet N.L. / **Temperature control as key factor for optimal biohydrogen production from thermomechanical pulping wastewater.** In: Biochemical Engineering Journal. 2018 ; Vol. 137. pp. 214-221.

Jain, Rohan ; Lakaniemi, Aino-Maija ; Peräniemi, Sirpa ; Kankkunen, Janne ; Turunen, Jukka ; Vepsäläinen, Jouko. / **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, Sanna ; Lakaniemi, Aino-Maija ; Rintala, Jukka. / **Use of diluted urine for cultivation of *Chlorella vulgaris*.** In: Environmental Technology. 2016 ; Vol. 37, No. 9. pp. 1159-1170.

Tampio, Elina ; Ervasti, Satu ; Paavola, Teija ; Rintala, Jukka. / **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.** In: Bioresource Technology. 2016 ; Vol. 220. pp. 47-54.

Kainulainen, Tuomo P. ; Sirviö, Juho A. ; Sethi, Jatin ; Hukka, Terttu I. ; Heiskanen, Juha P. / **UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol.** In: Macromolecules. 2018 ; Vol. 51, No. 5. pp. 1822-1829.

Katko, Tapio. / **Vesihuolto tarvitsee tutkimusta ja koulutusta.** In: Kuntatekniikka. 2015 ; No. 2. pp. 17.

Juuti, Petri ; Katko, Tapio. / **Water supply and sanitation services in finland before world war 2.** In: Flux. 2014 ; Vol. 97-98, No. 4. pp. 80-87.