

- Singh S, Rinta-Kanto JM, Kettunen R, Tolvanen H, Lens P, Collins G et al. **Anaerobic treatment of LCFA-containing synthetic dairy wastewater at 20°C: Process performance and microbial community dynamics.** *Science of the Total Environment.* 2019 Nov 15;691:960-968. <https://doi.org/10.1016/j.scitotenv.2019.07.136>
- Hajdu-Rahkama R, Ahoranta S, Lakaniemi A-M, Puhakka JA. **Effects of elevated pressures on the activity of acidophilic bioleaching microorganisms.** *Biochemical Engineering Journal.* 2019 Oct 15;150. 107286. <https://doi.org/10.1016/j.bej.2019.107286>
- Du L, Leivo V, Prasauskas T, Täubel M, Martuzevicius D, Haverinen-Shaughnessy U. **Effects of energy retrofits on Indoor Air Quality in multifamily buildings.** *Indoor Air.* 2019 Mar 28. <https://doi.org/10.1111/ina.12555>
- 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>
- Schönborn G, Berlin C, Pinzone M, Hanisch C, Georgoulas K, Lanz M. **Why social sustainability counts: The impact of corporate social sustainability culture on financial success.** *Sustainable Production and Consumption.* 2019 Jan 1;17:1-10. <https://doi.org/10.1016/j.spc.2018.08.008>
- El-Qelish M, Chatterjee P, Dessì P, Kokko M, El-Gohary F, Abo-Aly M et al. **Bio-hydrogen Production from Sewage Sludge: Screening for Pretreatments and Semi-continuous Reactor Operation.** *Waste and Biomass Valorization.* 2019. <https://doi.org/10.1007/s12649-019-00743-5>
- Pastor-Poquet V, Papirio S, Trably E, Rintala J, Escudié R, Esposito G. **High-solids anaerobic digestion requires a trade-off between total solids, inoculum-to-substrate ratio and ammonia inhibition.** *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY.* 2019. <https://doi.org/10.1007/s13762-019-02264-z>
- Länsivaara T. **Editorial.** *Environmental Geotechnics.* 2018 Dec 17;5(6). <https://doi.org/10.1680/jenge.2018.5.6.309>
- 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>
- Dessì 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>
- 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>
- Keskikuru T, Salo J, Huttunen P, Kokkoti H, Hyttinen M, Halonen R et al. **Radon, fungal spores and MVOCs reduction in crawl space house: A case study and crawl space development by hygrothermal modelling.** *Building and Environment.* 2018 Jun 15;138:1-10. <https://doi.org/10.1016/j.buildenv.2018.04.026>
- Kokko M, Epple S, Gescher J, Kerzenmacher S. **Effects of wastewater constituents and operational conditions on the composition and dynamics of anodic microbial communities in bioelectrochemical systems.** *Bioresource Technology.* 2018 Jun 1;258:376-389. <https://doi.org/10.1016/j.biortech.2018.01.090>
- Taddeo R, Honkanen M, Kolppo K, Lepistö R. **Nutrient management via struvite precipitation and recovery from various agroindustrial wastewaters: Process feasibility and struvite quality.** *Journal of Environmental Management.* 2018 Apr 15;212:433-439. <https://doi.org/10.1016/j.jenvman.2018.02.027>

Leivo V, Prasauskas T, Du L, Turunen M, Kiviste M, Aaltonen A et al. **Indoor thermal environment, air exchange rates, and carbon dioxide concentrations before and after energy retro fits in Finnish and Lithuanian multi-family buildings.** Science of the Total Environment. 2018 Apr;621:398-406. <https://doi.org/10.1016/j.scitotenv.2017.11.227>

Di Capua F, Milone I, Lakaniemi A-M, Hullebusch EDV, Lens PNL, Esposito G. **Effects of different nickel species on autotrophic denitrification driven by thiosulfate in batch tests and a fluidized-bed reactor.** Bioresource Technology. 2017 Aug 1;238:534-541. <https://doi.org/10.1016/j.biortech.2017.04.082>

Mal J, Nancharaiah YV, van Hullebusch ED, Lens PNL. **Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor.** Bioresource Technology. 2017;229:11-19. <https://doi.org/10.1016/j.biortech.2016.12.112>

Tao R, Lakaniemi A-M, Rintala JA. **Cultivation of *Scenedesmus acuminatus* in different liquid digestates from anaerobic digestion of pulp and paper industry biosludge.** Bioresource Technology. 2017;245(A):706-713. <https://doi.org/10.1016/j.biortech.2017.08.218>

Auvinen H, Gagnon V, Rousseau DPL, du Laing G. **Fate of metallic engineered nanomaterials in constructed wetlands: prospection and future research perspectives.** Reviews in Environmental Science and Bio-Technology. 2017;16(2):207-222. <https://doi.org/10.1007/s11157-017-9427-0>

Kinnunen V, Rintala J. **The effect of low-temperature pretreatment on the solubilization and biomethane potential of microalgae biomass grown in synthetic and wastewater media.** Bioresource Technology. 2016 Dec 1;221:78-84. <https://doi.org/10.1016/j.biortech.2016.09.017>

Kim B, Praveenkumar R, Lee J, Nam B, Kim DM, Lee K et al. **Magnesium aminoclay enhances lipid production of mixotrophic *Chlorella* sp. KR-1 while reducing bacterial populations.** Bioresource Technology. 2016 Nov 1;219:608-613. <https://doi.org/10.1016/j.biortech.2016.08.034>

Ramasamy P, Kim B, Lee J, Vijayan D, Lee K, Nam B et al. **Mild pressure induces rapid accumulation of neutral lipid (triacylglycerol) in *Chlorella* spp.** Bioresource Technology. 2016 Nov 1;220:661-665. <https://doi.org/10.1016/j.biortech.2016.09.025>

Laitinen A, Keskinen J. **Performance of a sonic jet-type charger in high dust load.** Journal of Electrostatics. 2016 Oct 1;83:1-6. <https://doi.org/10.1016/j.elstat.2016.06.002>

Taddeo R, Kolppo K, Lepistö R. **Sustainable nutrients recovery and recycling by optimizing the chemical addition sequence for struvite precipitation from raw swine slurries.** Journal of Environmental Management. 2016 Sep 15;180:52-58. <https://doi.org/10.1016/j.jenvman.2016.05.009>

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 MLK, Lakaniemi AM, Kokko ME, Puhakka JA. **Long-term stability of bioelectricity generation coupled with tetrathionate disproportionation.** Bioresource Technology. 2016 Sep 1;216:876-882. <https://doi.org/10.1016/j.biortech.2016.06.024>

Nancharaiah YV, Venkata Mohan S, Lens PNL. **Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems.** Bioresource Technology. 2016 Sep;215:173-185. <https://doi.org/10.1016/j.biortech.2016.03.129>

van Hullebusch ED, Guibaud G, Simon S, Lenz M, Yekta SS, Feroso FG et al. **Methodological approaches for fractionation and speciation to estimate trace element bioavailability in engineered anaerobic digestion ecosystems: An overview.** Critical Reviews in Environmental Science and Technology. 2016 Aug 17;46(16):1324-1366. <https://doi.org/10.1080/10643389.2016.1235943>

Wikberg H, Ohra-aho T, Honkanen M, Kanerva H, Harlin A, Vippola M et al. **Hydrothermal carbonization of pulp mill streams**. *Bioresource Technology*. 2016 Jul 1;212:236-244. <https://doi.org/10.1016/j.biortech.2016.04.061>

Nykänen L, Liimatainen H. **Possible impacts of increasing maximum truck weight: Finland case study**. In Blanquart C, Clausen U, Jacob B, editors, *Towards innovative freight and logistics: Research for innovative transports set*. Vol. 2. Great Britain: Wiley-ISTE. 2016. p. 121-133

Mal J, Nancharaiah YV, van Hullebusch ED, Lens PNL. **Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge**. *Bioresource Technology*. 2016 Apr 1;206:1-8. <https://doi.org/10.1016/j.biortech.2016.01.064>

Tampio E, Salo T, Rintala J. **Agronomic characteristics of five different urban waste digestates**. *Journal of Environmental Management*. 2016 Mar 15;169:293-302. <https://doi.org/10.1016/j.jenvman.2016.01.001>

Mensah-Attipoe J, Saari S, Veijalainen AM, Pasanen P, Keskinen J, Leskinen JTT et al. **Release and characteristics of fungal fragments in various conditions**. *Science of the Total Environment*. 2016 Mar 15;547:234-243. <https://doi.org/10.1016/j.scitotenv.2015.12.095>

Kim DY, Vijayan D, Praveenkumar R, Han JI, Lee K, Park JY et al. **Cell-wall disruption and lipid/astaxanthin extraction from microalgae: *Chlorella* and *Haematococcus***. *Bioresource Technology*. 2016;199:300-310. <https://doi.org/10.1016/j.biortech.2015.08.107>

Solala I, Koistinen A, Siljander S, Vuorinen J, Vuorinen T. **Composites of high-temperature thermomechanical pulps and polylactic acid**. *BioResources*. 2016;11(1):1125-1140. <https://doi.org/10.15376/biores.11.1.1125-1140>

Tukiainen A, Aho A, Polojärvi V, Ahorinta R, Guina M. **High efficiency dilute nitride solar cells: Simulations meet experiments**. *Journal of Green Engineering*. 2016;5(3-4):113-132. 8. <https://doi.org/10.13052/jge1904-4720.5348>

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>

Vinha J, Manelius E, Korpi M, Salminen K, Kurnitski J, Kiviste M et al. **Airtightness of residential buildings in Finland**. *Building and Environment*. 2015 Nov 1;93(P2):128-140. <https://doi.org/10.1016/j.buildenv.2015.06.011>

Polishchuk A, Valev D, Tarvainen M, Mishra S, Kinnunen V, Antal T et al. **Cultivation of *Nannochloropsis* for eicosapentaenoic acid production in wastewaters of pulp and paper industry**. *Bioresource Technology*. 2015 Oct 1;193:469-476. <https://doi.org/10.1016/j.biortech.2015.06.135>

Kokko ME, Mäkinen AE, Sulonen MLK, Puhakka JA. **Effects of anode potentials on bioelectrogenic conversion of xylose and microbial community compositions**. *Biochemical Engineering Journal*. 2015 Sep 5;101:248-252. <https://doi.org/10.1016/j.bej.2015.06.007>

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>

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>

Taskan E, Özkaya B, Hasar H. **Combination of a novel electrode material and artificial mediators to enhance power generation in an MFC**. *Water Science and Technology*. 2015;71(3):320-328. <https://doi.org/10.2166/wst.2014.487>

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

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>

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>

Praveenkumar R, Kim B, Choi E, Lee K, Park JY, Lee JS et al. **Improved biomass and lipid production in a mixotrophic culture of *Chlorella* sp. KR-1 with addition of coal-fired flue-gas.** Bioresource Technology. 2014 Nov 1;171:500-505. <https://doi.org/10.1016/j.biortech.2014.08.112>

Lee K, Lee SY, Praveenkumar R, Kim B, Seo JY, Jeon SG et al. **Repeated use of stable magnetic flocculant for efficient harvest of oleaginous *Chlorella* sp.** Bioresource Technology. 2014;167:284-290. <https://doi.org/10.1016/j.biortech.2014.06.055>

Nikhil , Puhakka JA, Visa A, Yli-Harja O. **Software design for simulating microbial bioprocesses in bioreactor.** In 6th International Conference on Environmental Informatics, ISEIS 2007. International Society for Environmental Information Sciences. 2014. 60700018

Lee K, Lee SY, Na JG, Jeon SG, Praveenkumar R, Kim DM et al. **Magnetophoretic harvesting of oleaginous *Chlorella* sp. by using biocompatible chitosan/magnetic nanoparticle composites.** Bioresource Technology. 2013 Dec;149:575-578. <https://doi.org/10.1016/j.biortech.2013.09.074>

Pakarinen O, Kaparaju P, Rintala J. **The effect of organic loading rate and retention time on hydrogen production from a methanogenic CSTR.** Bioresource Technology. 2011 Oct;102(19):8952-8957. <https://doi.org/10.1016/j.biortech.2011.07.020>

Jagadabhi PS, Kaparaju P, Rintala J. **Two-stage anaerobic digestion of tomato, cucumber, common reed and grass silage in leach-bed reactors and upflow anaerobic sludge blanket reactors.** Bioresource Technology. 2011 Apr;102(7):4726-4733. <https://doi.org/10.1016/j.biortech.2011.01.052>

Jagadabhi PS, Kaparaju P, Rintala J. **Effect of micro-aeration and leachate replacement on COD solubilization and VFA production during mono-digestion of grass-silage in one-stage leach-bed reactors.** Bioresource Technology. 2010 Apr;101(8):2818-2824. <https://doi.org/10.1016/j.biortech.2009.10.083>

Sivula L, Ilander A, Väisänen A, Rintala J. **Weathering of gasification and grate bottom ash in anaerobic conditions.** Journal of Hazardous Materials. 2010 Feb 15;174(1-3):344-351. <https://doi.org/10.1016/j.jhazmat.2009.09.056>

Seppälä M, Paavola T, Lehtomäki A, Rintala J. **Biogas production from boreal herbaceous grasses - Specific methane yield and methane yield per hectare.** Bioresource Technology. 2009 Jun;100(12):2952-2958. <https://doi.org/10.1016/j.biortech.2009.01.044>

Wang H, Lehtomäki A, Tolvanen K, Puhakka J, Rintala J. **Impact of crop species on bacterial community structure during anaerobic co-digestion of crops and cow manure.** Bioresource Technology. 2009 Apr;100(7):2311-2315. <https://doi.org/10.1016/j.biortech.2008.10.040>

Sormunen K, Ettala M, Rintala J. **Internal leachate quality in a municipal solid waste landfill: Vertical, horizontal and temporal variation and impacts of leachate recirculation.** Journal of Hazardous Materials. 2008 Dec 30;160(2-3):601-607. <https://doi.org/10.1016/j.jhazmat.2008.03.081>

Einola J-KM, Sormunen KM, Rintala JA. **Methane oxidation in a boreal climate in an experimental landfill cover composed from mechanically-biologically treated waste.** Science of the Total Environment. 2008 Dec 15;407(1):67-83. <https://doi.org/10.1016/j.scitotenv.2008.08.016>

Paavola T, Rintala J. **Effects of storage on characteristics and hygienic quality of digestates from four co-digestion concepts of manure and biowaste.** Bioresource Technology. 2008 Oct;99(15):7041-7050. <https://doi.org/10.1016/j.biortech.2008.01.005>

Pakarinen O, Lehtomäki A, Rissanen S, Rintala J. **Storing energy crops for methane production: Effects of solids content and biological additive.** Bioresource Technology. 2008 Oct;99(15):7074-7082. <https://doi.org/10.1016/j.biortech.2008.01.007>

Kaparaju PLN, Rintala JA. **Effects of solid-liquid separation on recovering residual methane and nitrogen from digested dairy cow manure.** Bioresource Technology. 2008 Jan;99(1):120-127. <https://doi.org/10.1016/j.biortech.2006.11.046>

Seppälä M, Paavola T, Lehtomäki A, Pakarinen O, Rintala J. **Biogas from energy crops - Optimal pre-treatments and storage, co-digestion and energy balance in boreal conditions.** Water Science and Technology. 2008;58(9):1857-1863. <https://doi.org/10.2166/wst.2008.503>

Jokela JPY, Rintala JA. **Anaerobic solubilisation of nitrogen from municipal solid waste (MSW).** Reviews in Environmental Science and Bio-Technology. 2003;2(1):67-77. <https://doi.org/10.1023/B:RESB.0000022830.62176.36>

Suvilampi J, Rintala J. **Thermophilic aerobic wastewater treatment, process performance, biomass characteristics, and effluent quality.** Reviews in Environmental Science and Bio-Technology. 2003;2(1):35-51. <https://doi.org/10.1023/B:RESB.0000022959.46025.9a>

Smeds A, Franzen R, Kronberg L. **Occurrence of some chlorinated enol lactones and cyclopentene-1,3-diones in chlorine-treated waters.** Environmental Science and Technology. 1995;29(7):1839-1844. <https://doi.org/10.1021/es00007a022>

Franzén R, Kronberg L. **Determination of chlorinated 5-methyl-5-hydroxyfuranones in drinking water, in chlorinated humic water, and in pulp bleaching liquor.** Environmental Science and Technology. 1994;28(12):2222-2227. <https://doi.org/10.1021/es00061a035>