

Dessi P, Chatterjee P, Mills S, Kokko M, Lakaniemi A-M, Collins G, Lens PNL. 2019. Power production and microbial community composition in thermophilic acetate-fed up-flow and flow-through microbial fuel cells. *Bioresource Technology*. 294. <https://doi.org/10.1016/j.biortech.2019.122115>

Singh S, Rinta-Kanto JM, Kettunen R, Tolvanen H, Lens P, Collins G, Kokko M, Rintala J. 2019. Anaerobic treatment of LCFA-containing synthetic dairy wastewater at 20°C: Process performance and microbial community dynamics. *Science of the Total Environment*. 691:960-968. <https://doi.org/10.1016/j.scitotenv.2019.07.136>

Hajdu-Rahkama R, Ahoranta S, Lakaniemi A-M, Puhakka JA. 2019. Effects of elevated pressures on the activity of acidophilic bioleaching microorganisms. *Biochemical Engineering Journal*. 150. <https://doi.org/10.1016/j.bej.2019.107286>

Du L, Leivo V, Prasauskas T, Täubel M, Martuzevicius D, Haverinen-Shaughnessy U. 2019. Effects of energy retrofits on Indoor Air Quality in multifamily buildings. *Indoor Air*. <https://doi.org/10.1111/ina.12555>

Pastor-Poquet V, Papirio S, Trably E, Rintala J, Escudié R, Esposito G. 2019. Semi-continuous mono-digestion of OFMSW and Co-digestion of OFMSW with beech sawdust: Assessment of the maximum operational total solid content. *Journal of Environmental Management*. 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. 2019. Why social sustainability counts: The impact of corporate social sustainability culture on financial success. *Sustainable Production and Consumption*. 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, Rintala J. 2019. Bio-hydrogen Production from Sewage Sludge: Screening for Pretreatments and Semi-continuous Reactor Operation. *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-019-00743-5>

Pastor-Poquet V, Papirio S, Trably E, Rintala J, Escudié R, Esposito G. 2019. 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*. <https://doi.org/10.1007/s13762-019-02264-z>

Länsivaara T. 2018. Editorial. *Environmental Geotechnics*. 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. 2018. Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. *Chemosphere*. 211:684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

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

Eregowda T, Matanhike L, Rene ER, Lens PNL. 2018. Performance of a biotrickling filter for the anaerobic utilization of gas-phase methanol coupled to thiosulphate reduction and resource recovery through volatile fatty acids production. *Bioresource Technology*. 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, Vinha J. 2018. Radon, fungal spores and MVOCs reduction in crawl space house: A case study and crawl space development by hygrothermal modelling. *Building and Environment*. 138:1-10. <https://doi.org/10.1016/j.buildenv.2018.04.026>

Kokko M, Epple S, Gescher J, Kerzenmacher S. 2018. Effects of wastewater constituents and operational conditions on the composition and dynamics of anodic microbial communities in bioelectrochemical systems. *Bioresource Technology*. 258:376-389. <https://doi.org/10.1016/j.biortech.2018.01.090>

- Taddeo R, Honkanen M, Kolppo K, Lepistö R. 2018. Nutrient management via struvite precipitation and recovery from various agroindustrial wastewaters: Process feasibility and struvite quality. *Journal of Environmental Management*. 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, Martuzevicius D, Haverinen-Shaughnessy U. 2018. 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*. 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. 2017. Effects of different nickel species on autotrophic denitrification driven by thiosulfate in batch tests and a fluidized-bed reactor. *Bioresource Technology*. 238:534-541. <https://doi.org/10.1016/j.biortech.2017.04.082>
- Mal J, Nancharaiyah YV, van Hullebusch ED, Lens PNL. 2017. Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor. *Bioresource Technology*. 229:11-19. <https://doi.org/10.1016/j.biortech.2016.12.112>
- Tao R, Lakaniemi A-M, Rintala JA. 2017. Cultivation of *Scenedesmus acuminatus* in different liquid digestates from anaerobic digestion of pulp and paper industry biosludge. *Bioresource Technology*. 245(A):706-713. <https://doi.org/10.1016/j.biortech.2017.08.218>
- Auvinen H, Gagnon V, Rousseau DPL, du Laing G. 2017. Fate of metallic engineered nanomaterials in constructed wetlands: prospection and future research perspectives. *Reviews in Environmental Science and Bio-Technology*. 16(2):207-222. <https://doi.org/10.1007/s11157-017-9427-0>
- Kinnunen V, Rintala J. 2016. The effect of low-temperature pretreatment on the solubilization and biomethane potential of microalgae biomass grown in synthetic and wastewater media. *Bioresource Technology*. 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, Lee YC, Oh YK. 2016. Magnesium aminoclay enhances lipid production of mixotrophic *Chlorella* sp. KR-1 while reducing bacterial populations. *Bioresource Technology*. 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, Jeon SG, Kim DM, Oh YK. 2016. Mild pressure induces rapid accumulation of neutral lipid (triacylglycerol) in *Chlorella* spp. *Bioresource Technology*. 220:661-665. <https://doi.org/10.1016/j.biortech.2016.09.025>
- Laitinen A, Keskinen J. 2016. Performance of a sonic jet-type charger in high dust load. *Journal of Electrostatics*. 83:1-6. <https://doi.org/10.1016/j.elstat.2016.06.002>
- Taddeo R, Kolppo K, Lepistö R. 2016. Sustainable nutrients recovery and recycling by optimizing the chemical addition sequence for struvite precipitation from raw swine slurries. *Journal of Environmental Management*. 180:52-58. <https://doi.org/10.1016/j.jenvman.2016.05.009>
- Palmroth MRT, Pispala L, Kettunen RH, Hänninen T, Rintala JA. 2016. Mitigation of propylene glycol emissions to groundwater and soil. Paper presented at Nordrocs 2016, 6th Joint Nordic Meeting on Remediation of Contaminated Sites, Espoo, Finland.
- Sulonen MLK, Lakaniemi AM, Kokko ME, Puhakka JA. 2016. Long-term stability of bioelectricity generation coupled with tetrathionate disproportionation. *Bioresource Technology*. 216:876-882. <https://doi.org/10.1016/j.biortech.2016.06.024>
- Nancharaiyah YV, Venkata Mohan S, Lens PNL. 2016. Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems. *Bioresource Technology*. 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, Jain R, Dueter L, Roussel J, Guillon E, Skyllberg U, Almeida CMR, Pechaud Y, Garuti M, Frunzo L, Esposito G, Carliell-Marquet C, Ortner M, Collins G. 2016. 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*. 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, Laine C. 2016. Hydrothermal carbonization of pulp mill streams. *Bioresource Technology*. 212:236-244. <https://doi.org/10.1016/j.biortech.2016.04.061>
- Nykänen L, Liimatainen H. 2016. Possible impacts of increasing maximum truck weight: Finland case study. Blanquart C, Clausen U, Jacob B, editors. In *Towards innovative freight and logistics: Research for innovative transports set*. Great Britain: Wiley-ISTE. pp. 121-133.
- Mal J, Nancharaiyah YV, van Hullebusch ED, Lens PNL. 2016. Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge. *Bioresource Technology*. 206:1-8. <https://doi.org/10.1016/j.biortech.2016.01.064>
- Tampio E, Salo T, Rintala J. 2016. Agronomic characteristics of five different urban waste digestates. *Journal of Environmental Management*. 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, Reponen T. 2016. Release and characteristics of fungal fragments in various conditions. *Science of the Total Environment*. 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, Chang WS, Lee JS, Oh YK. 2016. Cell-wall disruption and lipid/astaxanthin extraction from microalgae: *Chlorella* and *Haematococcus*. *Bioresource Technology*. 199:300-310. <https://doi.org/10.1016/j.biortech.2015.08.107>
- Solala I, Koistinen A, Siljander S, Vuorinen J, Vuorinen T. 2016. Composites of high-temperature thermomechanical pulps and polylactic acid. *BioResources*. 11(1):1125-1140. <https://doi.org/10.15376/biores.11.1.1125-1140>
- Tukiainen A, Aho A, Polojärvi V, Ahorinta R, Guina M. 2016. High efficiency dilute nitride solar cells: Simulations meet experiments. *Journal of Green Engineering*. 5(3-4):113-132. <https://doi.org/10.13052/jge1904-4720.5348>
- Marjakangas JM, Chen CY, Lakaniemi AM, Puhakka JA, Whang LM, Chang JS. 2015. Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggery wastewater. *Biochemical Engineering Journal*. 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, Laukkanen A. 2015. Airtightness of residential buildings in Finland. *Building and Environment*. 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, Yang B, Rintala J, Tyystjärvi E. 2015. Cultivation of *Nannochloropsis* for eicosapentaenoic acid production in wastewaters of pulp and paper industry. *Bioresource Technology*. 193:469-476. <https://doi.org/10.1016/j.biortech.2015.06.135>
- Kokko ME, Mäkinen AE, Sulonen MLK, Puhakka JA. 2015. Effects of anode potentials on bioelectrogenic conversion of xylose and microbial community compositions. *Biochemical Engineering Journal*. 101:248-252. <https://doi.org/10.1016/j.bej.2015.06.007>
- Marjakangas JM, Lakaniemi AM, Koskinen PEP, Chang JS, Puhakka JA. 2015. Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent. *Biochemical Engineering Journal*. 99:48-54. <https://doi.org/10.1016/j.bej.2015.03.006>

- Zou G, Papirio S, van Hullebusch ED, Puhakka JA. 2015. Fluidized-bed denitrification of mining water tolerates high nickel concentrations. *Bioresource Technology*. 179:284-290. <https://doi.org/10.1016/j.biortech.2014.12.044>
- Taskan E, Özkaya B, Hasar H. 2015. Combination of a novel electrode material and artificial mediators to enhance power generation in an MFC. *Water Science and Technology*. 71(3):320-328. <https://doi.org/10.2166/wst.2014.487>
- Palmroth MRT, Mönkäre TJ, Steffen KT. 2015. Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential. Kalogerakis N, Fava F, Manousaki E, editors. In *Book of abstracts of the 6th European Bioremediation Conference*. pp. 47.
- Nancharaiah YV, Venkata Mohan S, Lens PNL. 2015. Metals removal and recovery in bioelectrochemical systems: A review. *Bioresource Technology*. 195:102-114. <https://doi.org/10.1016/j.biortech.2015.06.058>
- Taddeo R, Lepistö R. 2015. Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors. *Water Science and Technology*. 71(6):892-897. <https://doi.org/10.2166/wst.2015.045>
- Praveenkumar R, Kim B, Choi E, Lee K, Park JY, Lee JS, Lee YC, Oh YK. 2014. Improved biomass and lipid production in a mixotrophic culture of *Chlorella* sp. KR-1 with addition of coal-fired flue-gas. *Bioresource Technology*. 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, Na JG, Park JY, Kim DM, Oh YK. 2014. Repeated use of stable magnetic flocculant for efficient harvest of oleaginous *Chlorella* sp. *Bioresource Technology*. 167:284-290. <https://doi.org/10.1016/j.biortech.2014.06.055>
- Nikhil , Puhakka JA, Visa A, Yli-Harja O. 2014. Software design for simulating microbial bioprocesses in bioreactor. In *6th International Conference on Environmental Informatics, ISEIS 2007*. International Society for Environmental Information Sciences.
- Lee K, Lee SY, Na JG, Jeon SG, Praveenkumar R, Kim DM, Chang WS, Oh YK. 2013. Magnetophoretic harvesting of oleaginous *Chlorella* sp. by using biocompatible chitosan/magnetic nanoparticle composites. *Bioresource Technology*. 149:575-578. <https://doi.org/10.1016/j.biortech.2013.09.074>
- Pakarinen O, Kaparaju P, Rintala J. 2011. The effect of organic loading rate and retention time on hydrogen production from a methanogenic CSTR. *Bioresource Technology*. 102(19):8952-8957. <https://doi.org/10.1016/j.biortech.2011.07.020>
- Jagadabhi PS, Kaparaju P, Rintala J. 2011. Two-stage anaerobic digestion of tomato, cucumber, common reed and grass silage in leach-bed reactors and upflow anaerobic sludge blanket reactors. *Bioresource Technology*. 102(7):4726-4733. <https://doi.org/10.1016/j.biortech.2011.01.052>
- Jagadabhi PS, Kaparaju P, Rintala J. 2010. 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*. 101(8):2818-2824. <https://doi.org/10.1016/j.biortech.2009.10.083>
- Sivula L, Ilander A, Väisänen A, Rintala J. 2010. Weathering of gasification and grate bottom ash in anaerobic conditions. *Journal of Hazardous Materials*. 174(1-3):344-351. <https://doi.org/10.1016/j.jhazmat.2009.09.056>
- Seppälä M, Paavola T, Lehtomäki A, Rintala J. 2009. Biogas production from boreal herbaceous grasses - Specific methane yield and methane yield per hectare. *Bioresource Technology*. 100(12):2952-2958. <https://doi.org/10.1016/j.biortech.2009.01.044>
- Wang H, Lehtomäki A, Tolvanen K, Puhakka J, Rintala J. 2009. Impact of crop species on bacterial community structure during anaerobic co-digestion of crops and cow manure. *Bioresource Technology*. 100(7):2311-2315. <https://doi.org/10.1016/j.biortech.2008.10.040>

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

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

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

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

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

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

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

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

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

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