

Sutinen, Maiju et al. "Identification of breast tumors from diathermy smoke by differential ion mobility spectrometry". *European Journal of Surgical Oncology*. 2019, 45(2). 141-146. <https://doi.org/10.1016/j.ejso.2018.09.005>

Hänninen, Aleksii et al. "Bioresorbable Conductive Wire with Minimal Metal Content". *ACS Biomaterials Science & Engineering*. 2018, 5(2). 1134-1140. <https://doi.org/10.1021/acsbiomaterials.8b01292>

Santala, Suvi, Elena Efimova, ja Ville Santala. "Dynamic decoupling of biomass and wax ester biosynthesis in *Acinetobacter baylyi* by an autonomously regulated switch". *Metabolic Engineering Communications*. 2018. 7. <https://doi.org/10.1016/j.mec.2018.e00078>

Lehtinen, Tapio *Solar Fuels and Chemicals: Engineering Bacterial Platform for the Production of Long-Chain Hydrocarbons from Carbon Dioxide and Electricity* Tampere University of Technology. Publication. Tampere University of Technology. 2018.

Ryynänen, Tomi et al. "Microelectrode array for noninvasive analysis of cardiomyocytes at the single-cell level". *Japanese Journal of Applied Physics*. 2018. 57(11). <https://doi.org/10.7567/JJAP.57.117001>

Mehrang, Saeed et al. "Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit". *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018*. Institute of Electrical and Electronics Engineers Inc. 2018, 2913-2916. <https://doi.org/10.1109/EMBC.2018.8512921>

Tarniceriu, Adrian et al. "The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients". *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018*. IEEE. 2018, 4844-4847. <https://doi.org/10.1109/EMBC.2018.8513197>

Bermejo-Velasco, Daniel et al. "Thiazolidine chemistry revisited: a fast, efficient and stable click-type reaction at physiological pH". *Chemical Communications*. 2018, 12507-12510. <https://doi.org/10.1039/c8cc05405c>

Jääntti, Ville et al. "Electroencephalographic signals during anesthesia recorded from surface and depth electrodes". *International Journal of Radiation Biology*. 2018, 94(10). 934-943. <https://doi.org/10.1080/09553002.2018.1478159>

Lehtinen, Tapio et al. "Production of alkanes from CO₂ by engineered bacteria". *Biotechnology for Biofuels*. 2018. 11. <https://doi.org/10.1186/s13068-018-1229-2>

Salmela, Milla et al. "Molecular tools for selective recovery and detection of lignin-derived molecules". *Green Chemistry*. 2018, 20(12). 2829-2839. <https://doi.org/10.1039/c8gc00490k>

Gumulya, Yosephine et al. "In a quest for engineering acidophiles for biomining applications: Challenges and opportunities". *Genes*. 2018. 9(2). <https://doi.org/10.3390/genes9020116>

Kainulainen, Tuomo P. et al. "UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol". *Macromolecules*. 2018, 51(5). 1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>

Lehtinen, Tapio et al. "Improved fatty aldehyde and wax ester production by overexpression of fatty acyl-CoA reductases". *Microbial Cell Factories*. 2018. 17(1). <https://doi.org/10.1186/s12934-018-0869-z>

Okonkwo, Onyinye et al. "Quantitative Real-time PCR Monitoring Dynamics Of *Thermotoga Neapolitana* In Synthetic Co-Culture For Biohydrogen Production". *International Journal of Hydrogen Energy*. 2018, 43(6). 3133-3141. <https://doi.org/10.1016/j.ijhydene.2017.12.002>

Tienaho, Jenni et al. "A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances". *Photochemistry and Photobiology*. 2018, 94(6). 1273-1280. <https://doi.org/10.1111/php.12954>

- Sippola, Roosa J. et al. "Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties". *Dyes and Pigments*. 2017, 150. 79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>
- Lehtinen, Tapio et al. "Production of long chain alkyl esters from carbon dioxide and electricity by a two-stage bacterial process". *Bioresource Technology*. 2017, 243. 30-36. <https://doi.org/10.1016/j.biortech.2017.06.073>
- Doan, Phuong et al. "Effect of alkylaminophenols on growth inhibition and apoptosis of bone cancer cells". *European Journal of Pharmaceutical Sciences*. 2017, 107. 208–216. <https://doi.org/10.1016/j.ejps.2017.07.016>
- Kaartinen, Tommi et al. "Arsenic Removal from Mine Waters with Sorption Techniques". *Mine Water and the Environment*. 2017, 36(2). 199-208. <https://doi.org/10.1007/s10230-017-0450-8>
- Kaksonen, Anna H. et al. "Solid phase changes in chemically and biologically leached copper smelter slag". *Minerals Engineering*. 2017, 106. 97-101. <https://doi.org/10.1016/j.mineng.2016.08.029>
- L.K. Sulonen, Mira et al. "The effect of anode potential on bioelectrochemical and electrochemical tetrathionate degradation". *Bioresource Technology*. 2017, 226. 173-180. <https://doi.org/10.1016/j.biortech.2016.12.023>
- Kaksonen, Anna H. et al. "Metal biorecovery in acid solutions from a copper smelter slag". *Hydrometallurgy*. 2017, 168. 135-140. <https://doi.org/10.1016/j.hydromet.2016.08.014>
- Kannisto, Matti et al. "Growth and wax ester production of an *Acinetobacter baylyi* ADP1 mutant deficient in exopolysaccharide capsule synthesis". *Journal of Industrial Microbiology and Biotechnology*. 2016, 1-7. <https://doi.org/10.1007/s10295-016-1872-1>
- Işildar, Arda et al. "Two-step bioleaching of copper and gold from discarded printed circuit boards (PCB)". *Waste Management*. 2016, 57. 149–157. <https://doi.org/10.1016/j.wasman.2015.11.033>
- Di Capua, Francesco et al. "Impacts of sulfur source and temperature on sulfur-driven denitrification by pure and mixed cultures of *Thiobacillus*". *Process Biochemistry*. 2016, 51(10). 1576-1584. <https://doi.org/10.1016/j.procbio.2016.06.010>
- Keipi, Tiina et al. "Thermo-catalytic decomposition of methane: The effect of reaction parameters on process design and the utilization possibilities of the produced carbon". *Energy Conversion and Management*. 2016, 126. 923-934. <https://doi.org/10.1016/j.enconman.2016.08.060>
- Tampio, Elina, Sanna Marttinen, ja Jukka Rintala. "Liquid fertilizer products from anaerobic digestion of food waste: Mass, nutrient and energy balance of four digestate liquid treatment systems". *Journal of Cleaner Production*. 2016, 125. 22–32. <https://doi.org/10.1016/j.jclepro.2016.03.127>
- Dessi, Paolo et al. "Effect of temperature on selenium removal from wastewater by UASB reactors". *Water Research*. 2016, 94. 146-154. <https://doi.org/10.1016/j.watres.2016.02.007>
- Mal, J. et al. "Metal chalcogenide quantum dots: Biotechnological synthesis and applications". *RSC Advances*. 2016, 6(47). 41477-41495. <https://doi.org/10.1039/c6ra08447h>
- Butti, Sai Kishore et al. "Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling". *Renewable and Sustainable Energy Reviews*. 2016, 53. 462-476. <https://doi.org/10.1016/j.rser.2015.08.058>
- Tolvanen, Henrik, Tiina Keipi ja Risto Raiko. "A study on raw, torrefied, and steam-exploded wood: Fine grinding, drop-tube reactor combustion tests in N_2/O_2 and CO_2/O_2 atmospheres, particle geometry analysis, and numerical kinetics modeling". *Fuel*. 2016, 176. 153-164. <https://doi.org/10.1016/j.fuel.2016.02.071>

- Kaksonen, Anna H. et al. "Chemical and bacterial leaching of metals from a smelter slag in acid solutions". *Hydrometallurgy*. 2016, 159. 46-53. <https://doi.org/10.1016/j.hydromet.2015.10.032>
- Jaatinen, Sanna, Aino-Maija Lakaniemi, ja Jukka Rintala. "Use of diluted urine for cultivation of *Chlorella vulgaris*". *Environmental Technology*. 2016, 37(9). 1159-1170. <https://doi.org/10.1080/09593330.2015.1105300>
- George Abraham, Bobin *Fluorescent Protein Toolbox: Protein Engineering Broadens the Range of in vitro and in vivo Applications of Fluorescent Proteins* Tampere University of Technology. Publication. Tampere University of Technology. 2015.
- Marjakangas, Jatta M. et al. "Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggery wastewater". *Biochemical Engineering Journal*. 2015, 103. 177-184. <https://doi.org/10.1016/j.bej.2015.07.011>
- Marjakangas, Jatta M. et al. "Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggery wastewater". *Bioresource Technology*. 2015, 191. 369-376. <https://doi.org/10.1016/j.biortech.2015.02.075>
- Zou, Gang et al. "Column leaching of low-grade sulfide ore from Zijinshan copper mine". *International Journal of Mineral Processing*. 2015, 139. 11-16. <https://doi.org/10.1016/j.minpro.2015.04.005>
- Marjakangas, Jatta M. et al. "Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent". *Biochemical Engineering Journal*. 2015, 99. 48-54. <https://doi.org/10.1016/j.bej.2015.03.006>
- Nybond, Susanna et al. "Bioluminescent whole-cell reporter gene assays as screening tools in the identification of antimicrobial natural product extracts". *Journal of Microbiological Methods*. 2015, 114. 54-56. <https://doi.org/10.1016/j.mimet.2015.04.014>
- Nancharaiah, Yarlagadda V. ja Piet N. L. Lens. "Selenium biomineralization for biotechnological applications". *Trends in Biotechnology*. 2015, 33(6). 323-330. <https://doi.org/10.1016/j.tibtech.2015.03.004>
- Santala, Suvi *Developing Synthetic Biology Tools and Model Chassis: Production of Bioenergy and High-Value Molecules* Tampere University of Technology. Publication. Tampere University of Technology. 2015.
- Mangayil, Rahul *Biohydrogen Production: A Protein to Community Level Perspective Study* Tampere University of Technology. Publication. Tampere University of Technology. 2015.
- Mangayil, Rahul et al. "Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components". *Renewable Energy*. 2015, 75. 583-589. <https://doi.org/10.1016/j.renene.2014.10.051>
- Nybond, Susanna et al. "Integrated in vitro-in silico screening strategy for the discovery of antibacterial compounds". *Assay and Drug Development Technologies*. 2015, 13(1). 25-33. <https://doi.org/10.1089/adt.2014.625>
- Rosholm, Tomi et al. "Glycerol as an Efficient Medium for the Petasis Borono-Mannich Reaction". *Chemistryopen*. 2015, 4(1). 39-46. <https://doi.org/10.1002/open.201402066>
- Heiskanen, J. P. et al. "Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells". *Thin Solid Films*. 2015, 574. 196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>
- Di Capua, Francesco et al. "Chemolithotrophic denitrification in biofilm reactors". *Chemical Engineering Journal*. 2015, 280. 643-657. <https://doi.org/10.1016/j.cej.2015.05.131>

Taskan, Ergin, Bestemin Özkaya ja Halil Hasar. "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>

Nancharaiah, Y. V., S. Venkata Mohan ja P.N.L. Lens. "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>

Tienaho, Jenni et al. "Method with high-throughput screening potential for antioxidative substances using *Escherichia coli* biosensor katG':lux". *Journal of Microbiological Methods*. 2015, 118. 78-80. <https://doi.org/10.1016/j.mimet.2015.08.018>

Warwick, M. E. A. et al. "Pt-functionalized Fe₂O₃ photoanodes for solar water splitting: the role of hematite nano-organization and the platinum redox state". *Physical Chemistry Chemical Physics*. 2015, 17(19). 12899-12907. <https://doi.org/10.1039/c5cp01636c>

Warwick, Michael E A et al. "Vapor phase processing of α -Fe₂O₃ photoelectrodes for water splitting: An insight into the structure/property interplay". *ACS Applied Materials and Interfaces*. 2015, 7(16). 8667-8676. <https://doi.org/10.1021/acsami.5b00919>

Santala, Suvi, Matti Karp, ja Ville Santala. "Rationally engineered synthetic coculture for improved biomass and product formation". *PLoS ONE*. 2014. 9(12). <https://doi.org/10.1371/journal.pone.0113786>

Ciranna, Alessandro *Biohydrogen production in extreme conditions: A comprehensive study of the fermentative metabolism of a polyextremophilic bacterium* Tampere University of Technology. Publication. Tampere: Tampere University of Technology. 2014.

Raghuwanshi, Sanjeev et al. "Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose". *Fuel*. 2014, 124. 183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>

Ciranna, Alessandro et al. "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, 39(12). 6391-6401. <https://doi.org/10.1016/j.ijhydene.2014.02.047>

Ciranna, Alessandro et al. "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. 13(1). <https://doi.org/10.1186/1475-2859-13-48>

Santala, Suvi et al. "Rewiring the wax ester production pathway of *acinetobacter baylyi* ADP1". *ACS Synthetic Biology*. 2014, 3(3). 145-151. <https://doi.org/10.1021/sb4000788>

Seppälä, Jenni *Application of Computational Methods for Fermentative Hydrogen Production* Tampere University of Technology. Publication. Tampere University of Technology. 2014.

Höhn, J. et al. "A geographical information system (GIS) based methodology for determination of potential biomasses and sites for biogas plants in southern Finland". *Applied Energy*. 2014, 113. 1-10. <https://doi.org/10.1016/j.apenergy.2013.07.005>

Bevilaqua, Denise et al. "Bacterial and chemical leaching of chalcopyrite concentrates as affected by the redox potential and ferric/ferrous iron ratio at 22 C". *International Journal of Mineral Processing*. 2014, 132. 1-7. <https://doi.org/10.1016/j.minpro.2014.08.008>

Virolainen, Nina ja Matti Karp "Biosensors, Antibiotics and Food". ja Thouand, Gerald Marks, Robert (toimittaneet). *Bioluminescence: Fundamentals and Applications in Biotechnology - Volume 2*. Advances in biochemical engineering : biotechnology. Springer. 2014, 153-185. https://doi.org/10.1007/978-3-662-43619-6_5

Nissilä, Marika E., Chyi-How Lay, ja Jaakko A. Puhakka. "Dark fermentative hydrogen production from lignocellulosic hydrolyzates - A review". *Biomass & Bioenergy*. 2014, 67. 145-159. <https://doi.org/10.1016/j.biombioe.2014.04.035>

Papirio, S. et al. "Effect of arsenic on nitrification of simulated mining water". *Bioresource Technology*. 2014, 164. 149-154. <https://doi.org/10.1016/j.biortech.2014.04.072>

Zou, G. et al. "Fluidized-bed denitrification for mine waters. Part II: effects of Ni and Co". *BIODEGRADATION*. 2014, 25. 417-423. <https://doi.org/10.1007/s10532-013-9670-1>

Abraham, Bobin George et al. "Fluorescent protein-based FRET sensor for intracellular monitoring of redox status in bacteria at single cell level". *Analytical and Bioanalytical Chemistry*. 2014, 406(28). 7195-7204. <https://doi.org/10.1007/s00216-014-8165-1>

Männistö, Noora M. et al. "In vitro bioluminescence used as a method for real-time inhibition zone testing for antibiotic-releasing composites". *British Microbiology Research Journal*. 2014, 4(2). 235-254. <https://doi.org/10.9734/BMRJ/2014/6661>

Jokela, Petri ja Raghida Lepistö. "Lamella dissolved air flotation treatment of fish farming effluents as a part of an integrated farming and effluent treatment concept". *Environmental Technology*. 2014, 35(21). 2727-2733. <https://doi.org/10.1080/09593330.2014.919035>

Kinnunen, H.V., P.E.P. Koskinen, ja J. Rintala. "Mesophilic and thermophilic anaerobic laboratory-scale digestion of Nannochloropsis microalga residues". *Bioresource Technology*. 2014, 155. 314-322. <https://doi.org/10.1016/j.biortech.2013.12.115>

Kannisto, Matti et al. "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>

Guglielmetti, Simone et al. "Murein lytic enzyme TgaA of *Bifidobacterium bifidum* MIMBb75 modulates dendritic cell maturation through its cysteine- and histidine-dependent amidohydrolase/peptidase (CHAP) amidase domain". *Applied and Environmental Microbiology*. 2014, 80(17). 5170-5177. <https://doi.org/10.1128/AEM.00761-14>

Köroglu, Emre Oguz et al. "Novel design of a multitube microbial fuel cell (UM2FC) for energy recovery and treatment of membrane concentrates". *Biomass & Bioenergy*. 2014, 69. 58-65. <https://doi.org/10.1016/j.biombioe.2014.07.014>

Stuani, Lucille et al. "Novel metabolic features in *Acinetobacter baylyi* ADP1 revealed by a multiomics approach". *Metabolomics*. 2014. <https://doi.org/10.1007/s11306-014-0662-x>

Guglielmetti, Simone et al. "TgaA, a VirB1-like component belonging to a putative type IV secretion system of *Bifidobacterium bifidum* MIMBb75". *Applied and Environmental Microbiology*. 2014, 80(17). 5161-5169. <https://doi.org/10.1128/AEM.01413-14>

Rasi, S., J. Läntelä, ja J. Rintala. "Upgrading landfill gas using a high pressure water absorption process". *Fuel*. 2014, 115. 539-543. <https://doi.org/10.1016/j.fuel.2013.07.082>

Kivistö, Anniina, Ville Santala ja Matti Karp. "Non-sterile process for biohydrogen and 1,3-propanediol production from raw glycerol". *International Journal of Hydrogen Energy*. 2013, 38(27). 11749-11755. <https://doi.org/10.1016/j.ijhydene.2013.06.119>

- Seppälä, Jenni J. et al. "Prospecting hydrogen production of *Escherichia coli* by metabolic network modeling". *International Journal of Hydrogen Energy*. 2013, 38(27). 11780-11789. <https://doi.org/10.1016/j.ijhydene.2013.07.002>
- Hassan, Syeda Sakira et al. "Bioprocess data mining using regularized regression and random forests". *BMC Systems Biology*. 2013. 7(Suppl 1). <https://doi.org/10.1186/1752-0509-7-S1-S5>
- Bayr, Suvi, Prasad Kaparaju, ja Jukka Rintala. "Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge". *Chemical Engineering Journal*. 2013, 223. 479-486. <https://doi.org/10.1016/j.cej.2013.02.119>
- Tähti, Hanne, Prasad Kaparaju, ja Jukka Rintala. "Hydrogen and methane production in extreme thermophilic conditions in two-stage (upflow anaerobic sludge bed) UASB reactor system". *International Journal of Hydrogen Energy*. 2013, 38(12). 4997-5002. <https://doi.org/10.1016/j.ijhydene.2013.02.058>
- Rasi, S., M. Seppälä, ja J. Rintala. "Organic silicon compounds in biogases produced from grass silage, grass and maize in laboratory batch assays". *Energy*. 2013, 52. 137-142. <https://doi.org/10.1016/j.energy.2013.01.015>
- Kaparaju, Prasad, Saija Rasi, ja Jukka Rintala "Biogas upgrading and compression"., Korres, Nicholas E. ja O'Kiely, Pdraig Benzie, John A.H. West, Jonathan S. (toimittaneet). *Bioenergy Production by Anaerobic Digestion: Using Agricultural Biomass and Organic Wastes*. London: Routledge. 2013, 152-182. <https://doi.org/10.4324/9780203137697>
- Lakaniemi, Aino-Maija, Olli H. Tuovinen, ja Jaakko A. Puhakka. "Anaerobic conversion of microalgal biomass to sustainable energy carriers - A review". *Bioresource Technology*. 2013, 135(May). 222-231. <https://doi.org/10.1016/j.biortech.2012.08.096>
- Ahola, Niina et al. "An in vitro study of composites of poly(L-lactide-co-ε-caprolactone), β-tricalcium phosphate and ciprofloxacin intended for local treatment of osteomyelitis". *Biomatter*. 2013, 3(2). 1-13. <https://doi.org/10.4161/biom.23162>
- Nybond, Susanna, Matti Karp ja Päivi Tammela. "Antimicrobial assay optimization and validation for HTS in 384-well format using a bioluminescent *E. coli* K-12 strain". *European Journal of Pharmaceutical Sciences*. 2013, 49(4). 782-789. <https://doi.org/10.1016/j.ejps.2013.05.024>
- Mäkinen, Annukka E. et al. "Bioelectricity production on xylose with a compost enrichment culture". *International Journal of Hydrogen Energy*. 2013, 38(35). 15606-15612. <https://doi.org/10.1016/j.ijhydene.2013.04.137>
- Seppälä, Mari et al. "Biomethane production from maize and liquid cow manure - Effect of share of maize, post-methanation potential and digestate characteristics". *Fuel*. 2013, 107. 209-216. <https://doi.org/10.1016/j.fuel.2012.12.069>
- Kaartinen, Tommi, Kai Sormunen, ja Jukka Rintala. "Case study on sampling, processing and characterization of landfilled municipal solid waste in the view of landfill mining". *Journal of Cleaner Production*. 2013, 55. 56-66. <https://doi.org/10.1016/j.jclepro.2013.02.036>
- Privalova, E. et al. "CO₂ capture from biogas: absorbent selection". *RSC Advances*. 2013, 3(9). 2979-2994. <https://doi.org/10.1039/C2RA23013E>
- Lay, Chyi-How et al. "Co-fermentation of water hyacinth and beverage wastewater in powder and pellet form for hydrogen production". *Bioresource Technology*. 2013, 135. 610-615. <https://doi.org/10.1016/j.biortech.2012.06.094>
- Zou, G. et al. "Column bioleaching of low grade copper sulfide ore at extreme conditions for most mineral processing bacteria". *Advanced Materials Research*. 2013, 825. 318-321. <https://doi.org/10.4028/www.scientific.net/AMR.825.318>

- Sormunen, Kai, Tuomas Laurila, ja Jukka Rintala. "Determination of waste decay rate for a large Finnish landfill by calibrating methane generation models on the basis of methane recovery and emissions". *Waste Management and Research*. 2013, 31(10). 979-985. <https://doi.org/10.1177/0734242X13490980>
- Futagami, Taiki et al. "Distribution of dehalogenation activity in subseafloor sediments of the Nankai Trough subduction zone". *Philosophical Transactions of the Royal Society B: Biological Sciences*. 2013, 368(1616). 1-15. <https://doi.org/10.1098/rstb.2012.0249>
- Ciranna, Alessandro et al. "Draft genome sequence of the hydrogen- and ethanol-producing anaerobic alkalithermophilic bacterium *Caloramator celer*". *Genome Announcements*. 2013, 1(4). 1-2. <https://doi.org/10.1128/genomeA.00471-13>
- Bevilaqua, Denise et al. "Effect of NA-chloride on the bioleaching of a chalcopyrite concentrate in shake flasks and stirred tank bioreactors". *Hydrometallurgy*. 2013, 138. 1-13. <https://doi.org/10.1016/j.hydromet.2013.06.008>
- Özkaya, Bestamin et al. "Electricity generation from young landfill leachate in a microbial fuel cell with a new electrode material". *Bioprocess and Biosystems Engineering*. 2013, 36(4). 399-405. <https://doi.org/10.1007/s00449-012-0796-z>
- Nissilä, M.E., M.L.K. Sulonen, ja J.A. Puhakka "Enrichment of electrogens on xylose from anaerobi digester sample". *Proceedings of 13th World Congress on Anaerobic Digestion, 25th-28th June 2013, Santiago de Compostela, Spain*. Anaerobic Digestion World Congress. IWA International Water Association. 2013.
- Papirio, S. et al. "Fluidized-bed denitrification for mine waters. Part I: low pH and temperature operation". *BIODEGRADATION*. 2013, 1-11. <https://doi.org/10.1007/s10532-013-9671-0>
- Kaparaju, Prasad ja Jukka Rintala "Generation of heat and power from biogas for stationary applications: boilers, gas engines and turbines, combined heat and power (CHP) plants and fuel cells"., Wellinger, Arthur Murphy, Jerry Baxter, David (toimittaneet). *The biogas handbook: Science, production and applications*. Woodhead Publishing. 2013, 404-427.
- Kivistö, Anniina et al. "Genome Sequence of *Halanaerobium saccharolyticum* subsp. *saccharolyticum* Strain DSM 6643T, a Halophilic Hydrogen-Producing Bacterium". *Genome Announcements*. 2013, 1(2). 1-2. <https://doi.org/10.1128/genomeA.00187-13>
- Isohanni, Pauliina et al. "Heat stress adaptation induces cross-protection against lethal acid stress conditions in *Arcobacter butzleri* but not in *Campylobacter jejuni*". *Food Microbiology*. 2013, 34(2). 431-435. <https://doi.org/10.1016/j.fm.2013.02.001>
- Zou, Gang et al. "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>
- Efimova, E. et al. "Lipid profile characterization of wastewaters from different origins". *Water Science and Technology*. 2013, 68(11). 2505-2514. <https://doi.org/10.2166/wst.2013.538>
- Seppälä, Jenni et al. "Modification of the *Escherichia coli* metabolic model LAF1260 based on anaerobic experiments"., Autio, Reija, Shmulevich, Ilya ja Strimmer, Korbinian Wiuf, Carsten Sarbu, Septimia Yli-Harja, Olli (toimittaneet). *The 10th International Workshop on Computational Systems Biology, WCSB 2013, June 10-12, Tampere, Finland*. International Workshop on Computational Systems Biology. 2013, 80-86.
- Karadag, Dogan et al. "Profiling of bacterial community in a full-scale aerobic composting plant". *International Biodeterioration and Biodegradation*. 2013, 77. 85-90. <https://doi.org/10.1016/j.ibiod.2012.10.011>
- Seppälä, Mari, Antti Laine, ja Jukka Rintala. "Screening of novel plants for biogas production in northern conditions". *Bioresource Technology*. 2013, 139. 355-362. <https://doi.org/10.1016/j.biortech.2013.04.014>

Taverniti, Valentina et al. "S-Layer protein mediates the stimulatory effect of lactobacillus helveticus MIMLh5 on innate immunity". *Applied and Environmental Microbiology*. 2013, 79(4). 1221-1231. <https://doi.org/10.1128/AEM.03056-12>

Rismani-Yazdi, Hamid et al. "Suppression of methanogenesis in cellulose-fed microbial fuel cells in relation to performance, metabolite formation, and microbial population". *Bioresource Technology*. 2013, 129. 281-288. <https://doi.org/10.1016/j.biortech.2012.10.137>

Seppälä, Mari et al. "Methane production from maize in Finland - Screening for different maize varieties and plant parts". *Biomass & Bioenergy*. 2012, 46(November). 282-290. <https://doi.org/10.1016/j.biombioe.2012.08.016>

Bayr, Suvi ja Jukka Rintala. "Thermophilic anaerobic digestion of pulp and paper mill primary sludge and co-digestion of primary and secondary sludge". *Water Research*. 2012, 46(15). 4713-4720. <https://doi.org/10.1016/j.watres.2012.06.033>

Sivula, Leena, Kai Sormunen, ja Jukka Rintala. "Leachate formation and characteristics from gasification and grate incineration bottom ash under landfill conditions". *Waste Management*. 2012, 32(4). 780-788. <https://doi.org/10.1016/j.wasman.2011.11.012>

Kivistö, Anniina, Ville Santala ja Matti Karp. "1,3-Propanediol production and tolerance of a halophilic fermentative bacterium, *Halanaerobium saccharolyticum* subsp *saccharolyticum*". *Journal of Biotechnology*. 2012, 158(4). 242-247. <https://doi.org/10.1016/j.jbiotec.2011.10.013>

Mangayil, Rahul, Matti Karp, ja Ville Santala. "Bioconversion of crude glycerol from biodiesel production to hydrogen". *International Journal of Hydrogen Energy*. 2012, 37(17). 12198-12204. <https://doi.org/10.1016/j.ijhydene.2012.06.010>

Özkaya, Bestamin et al. "Bioelectricity production using a new electrode in a microbial fuel cell". *Bioprocess and Biosystems Engineering*. 2012, 35(7). 1219-1227. <https://doi.org/10.1007/s00449-012-0709-1>

Virolainen, Nina et al. "Bioluminescence-based identification of nisin producers - A rapid and simple screening method for nisinogenic bacteria in food samples". *International Journal of Food Microbiology*. 2012, 158(12). 126-132. <https://doi.org/10.1016/j.ijfoodmicro.2012.07.007>

Puhakka, Jaakko A., Dogan Karadag, ja Marika E. Nissilä. "Comparison of mesophilic and thermophilic anaerobic hydrogen production by hot spring enrichment culture". *International Journal of Hydrogen Energy*. 2012, 37(21). 16453-16459. <https://doi.org/10.1016/j.ijhydene.2012.02.121>

Nissilä, Marika E. et al. "Dark fermentative hydrogen production from neutralized acid hydrolysates of conifer pulp". *Applied Biochemistry and Biotechnology*. 2012, 168(8). 2160-2169. <https://doi.org/10.1007/s12010-012-9925-z>

Mäkinen, Annukka E., Marika E. Nissilä, ja Jaakko A. Puhakka. "Dark fermentative hydrogen production from xylose by a hot spring enrichment culture". *International Journal of Hydrogen Energy*. 2012, 37(17). 12234-12240. <https://doi.org/10.1016/j.ijhydene.2012.05.158>

Chu, Chen-Yeon et al. "Direct fermentation of sweet potato to produce maximal hydrogen and ethanol". *Applied Energy*. 2012, 100. 10-18. <https://doi.org/10.1016/j.apenergy.2012.06.023>

Bayr, Suvi et al. "Effect of additives on process stability of mesophilic anaerobic monodigestion of pig slaughterhouse waste". *Bioresource Technology*. 2012, 120(September). 106-113. <https://doi.org/10.1016/j.biortech.2012.06.009>

Chen, Chin-Chao et al. "Effect of effluent recycle ratio in a continuous anaerobic biohydrogen production system". *Journal of Cleaner Production*. 2012, 32. 236-243. <https://doi.org/10.1016/j.jclepro.2012.04.006>

Hulatt, Chris J. et al. "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>

Ciranna, Alessandro, Ville Santala ja Matti Karp. "Enhancing biohydrogen production of the alkalithermophile *Thermobrachium celere*". *International Journal of Hydrogen Energy*. 2012, 37(7). 5550-5558. <https://doi.org/10.1016/j.ijhydene.2011.12.105>

Lakaniemi, Aino-Maija et al. "Eukaryotic and prokaryotic microbial communities during microalgal biomass production". *Bioresource Technology*. 2012, 124(November). 387-393. <https://doi.org/10.1016/j.biortech.2012.08.048>

Papirio, Stefano *Fluidized-bed bioreactor applications for the treatment of metal-, sulfate- and nitrate-contaminated mine waters* Università degli Studi di Cassino e del Lazio Meridionale. Università degli Studi di Cassino e del Lazio Meridionale. 2012.

Lakaniemi, Aino-Maija et al. "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, Aino-Maija et al. "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>

Carver, Sarah M. et al. "Hydrogen and volatile fatty acid production during fermentation of cellulosic substrates by a thermophilic consortium at 50 and 60 °C". *Bioresource Technology*. 2012, 104(January). 424-431. <https://doi.org/10.1016/j.biortech.2011.11.013>

Nissilä, Marika E. et al. "Hydrogenic and methanogenic fermentation of birch and conifer pulps". *Applied Energy*. 2012, 100(December). 58-65. <https://doi.org/10.1016/j.apenergy.2012.06.015>

Taverniti, Valentina et al. "In Vitro functional and immunomodulatory properties of the *Lactobacillus helveticus* MIMLh5-*Streptococcus salivarius* ST3 association that are relevant to the development of a Pharyngeal probiotic product". *Applied and Environmental Microbiology*. 2012, 78(12). 4209-4216. <https://doi.org/10.1128/AEM.00325-12>

Läntelä, J. et al. "Landfill gas upgrading with pilot-scale water scrubber: Performance assessment with adsorption water recycling". *Applied Energy*. 2012, 92(April). 307-314. <https://doi.org/10.1016/j.apenergy.2011.10.011>

Sharma, Krishna Kant et al. "Ligninolytic enzymes improve soil DNA purity: Solution to methodological challenges of soil metagenomics". *Journal of Molecular Catalysis B: Enzymatic*. 2012, 83(November). 73-79. <https://doi.org/10.1016/j.molcatb.2012.07.010>

Bayr, Suvi et al. "Mesophilic and thermophilic anaerobic co-digestion of rendering plant and slaughterhouse wastes". *Bioresource Technology*. 2012, 104(January). 28-36. <https://doi.org/10.1016/j.biortech.2011.09.104>

Halinen, Anna-Kaisa et al. "Microbial community dynamics during a demonstration-scale bioheap leaching operation". *Hydrometallurgy*. 2012, 125-126. 34-41. <https://doi.org/10.1016/j.hydromet.2012.05.001>

Santala, Suvi, Matti Karp, ja Ville Santala. "Monitoring alkane degradation by single biobrick integration to an optimal cellular framework". *ACS Synthetic Biology*. 2012, 1(2). 60-64. <https://doi.org/10.1021/sb2000066>

Ahola, Niina et al. "Processing and sustained in vitro release of rifampicin containing composites to enhance the treatment of osteomyelitis". *Biomatter*. 2012, 2(4). 1-13. <https://doi.org/10.4161/biom.22793>

Lakaniemi, Aino-Maija, Olli H. Tuovinen, ja Jaakko A. Puhakka. "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>

- Kumar, G. et al. "Seed inocula for biohydrogen production from biodiesel solid residues". *International Journal of Hydrogen Energy*. 2012, 37(29). 15489-15495. <https://doi.org/10.1016/j.ijhydene.2012.04.016>
- Li, Ya-Chieh et al. "Silage as source of bacteria and electrons for dark fermentative hydrogen production". *International Journal of Hydrogen Energy*. 2012, 37(20). 15518-15524. <https://doi.org/10.1016/j.ijhydene.2012.04.060>
- Kandhavelu, M. et al. "Synthesis, characterization and antimicrobial activity of arylhydrazones of methylene active compounds". *Pharmaceutical Chemistry Journal*. 2012, 46(3). 157-164. <https://doi.org/10.1007/s11094-012-0751-y>
- Sivula, Leena, Aimo Oikari, ja Jukka Rintala. "Toxicity of waste gasification bottom ash leachate". *Waste Management*. 2012, 32(6). 1171-1178. <https://doi.org/10.1016/j.wasman.2012.01.002>
- Bomberg, Malin et al. "Archaeal communities in boreal forest tree rhizospheres respond to changing soil temperatures". *Microbial Ecology*. 2011, 62(1). 205-217. <https://doi.org/10.1007/s00248-011-9837-4>
- Carver, Sarah M., Pertti Vuoriranta ja Olli H. Tuovinen. "A thermophilic microbial fuel cell design". *Journal of Power Sources*. 2011, 196(8). 3757-3760. <https://doi.org/10.1016/j.jpowsour.2010.12.088>
- Bevilaqua, D. et al. "Avaliacao eletroquimica de residuos de biolixiviacao da calcopirita (CuFeS₂) por acidithiobacillus ferrooxidans". *XXIV ENTMMME 2011, Encontro Nacional de Tratamento de Minerios e Metalurgia Extrativa, 16 a 19 de outubro de 2011, Salvador/Bahia*. Encontro Nacional de Tratamento de Minerios e Metalurgia Extrativa. Encontro Nacional de Tratamento de Minerios e Metalurgia Extrativa. 2011, 1179-1186.
- George Abraham, Bobin et al. "Bidirectional fluorescence resonance energy transfer (FRET) in mutated and chemically modified yellow fluorescent protein (YFP)". *Bioconjugate Chemistry*. 2011, 22(2). 227-234. <https://doi.org/10.1021/bc100372u>
- Lakaniemi, Aino-Maija et al. "Biogenic hydrogen and methane production from *Chlorella vulgaris* and *Dunaliella tertiolecta* biomass". *Biotechnology for Biofuels*. 2011, 4(1). 1-12. <https://doi.org/10.1186/1754-6834-4-34>
- Lakaniemi, Aino-Maija et al. "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>
- Kaksonen, Anna H. et al. "Bioleaching and recovery of metals from final slag waste of the copper smelting industry". *Minerals Engineering*. 2011, 24(11). 1113-1121. <https://doi.org/10.1016/j.mineng.2011.02.011>
- Wakeman, Kathryn D., Petra Honkavirta, ja Jaakko A. Puhakka. "Bioleaching of flotation by-products of talc production permits the separation of nickel and cobalt from iron and arsenic". *Process Biochemistry*. 2011, 46. 1589-1598. <https://doi.org/10.1016/j.procbio.2011.04.016>
- Smolander, Olli-Pekka et al. "Cell-to-cell diversity in protein levels of a gene driven by a tetracycline inducible promoter". *BMC Molecular Biology*. 2011, 12. 1-27. <https://doi.org/10.1186/1471-2199-12-21>
- Kivistö, Anniina, Ville Santala ja Matti Karp. "Closing the 1,3-propanediol route enhances hydrogen production from glycerol by *Halanaerobium saccharolyticum* subsp. *saccharolyticum*". *International Journal of Hydrogen Energy*. 2011, 36(12). 7074-7080. <https://doi.org/10.1016/j.ijhydene.2011.03.012>
- Santala, Suvi et al. "Construction and Modelling of an Artificial Microecosystem"., Koepl, Heinz, Acimovic, Jugoslava ja Kesseli, Juha Mäki-Marttunen, Tuomo Larjo, Antti Yli-Harja, Olli (toimittaneet). *Eight International Workshop on Computational Systems Biology, WCSB 2011, June 6-8, Zurich, Switzerland. TICSP series*. International Workshop on Computational Systems Biology WCSB; 57. Zurich: WCSB 2011. 2011, 225-225.

Smolander, Olli-Pekka et al. "Dynamics of Gene Expression under Tetracycline Inducible Promoters"., Koepl, Heinz, Acimovic, Jugoslava ja Kesseli, Juha Mäki-Marttunen, Tuomo Larjo, Antti Yli-Harja, Olli (toimittaneet). *Eight International Workshop on Computational Systems Biology, WCSB 2011, June 6-8, Zurich, Switzerland. TICSP series*. International Workshop on Computational Systems Biology WCSB; 57. Zurich: WCSB 2011. 2011, 227-227.

Nissilä, Marika E. et al. "Effects of heat treatment on hydrogen production potential and microbial community of thermophilic compost enrichment cultures". *Bioresource Technology*. 2011, 102(6). 4501-4506.
<https://doi.org/10.1016/j.biortech.2010.12.072>

Seppälä, Jenni J. et al. "Fermentative hydrogen production by *Clostridium butyricum* and *Escherichia coli* in pure and cocultures". *International Journal of Hydrogen Energy*. 2011, 36(17). 10701-10708.
<https://doi.org/10.1016/j.ijhydene.2011.05.189>

Mangayil, Rahul, Ville Santala ja Matti Karp. "Fermentative hydrogen production from different sugars by *Citrobacter* sp. CMC-1 in batch culture". *International Journal of Hydrogen Energy*. 2011, 36. 15187-15194.
<https://doi.org/10.1016/j.ijhydene.2011.08.076>

Kivistö, Anniina ja Matti T. Karp. "Halophilic anaerobic fermentative bacteria: Review". *Journal of Biotechnology*. 2011, 152(4). 114-124. <https://doi.org/10.1016/j.jbiotec.2010.08.014>

Puhakka, Jaakko *IEA-HIA Task Semiannual Report 2010 from Finland* IEA. 2011.

Santala, Suvi et al. "Improved triacylglycerol production in *Acinetobacter baylyi* ADP1 by metabolic engineering". *Microbial Cell Factories*. 2011, 10(36). 1-10. <https://doi.org/10.1186/1475-2859-10-36>

Lindsay, Matthew B.J. et al. "Microbiology and geochemistry of mine tailings amended with organic carbon for passive treatment of pore water". *Geomicrobiology Journal*. 2011, 28(3). 229-241. <https://doi.org/10.1080/01490451.2010.493570>

Tolvanen, Katariina E.S. ja Matti T. Karp. "Molecular methods for characterizing mixed microbial communities in hydrogen-fermenting systems". *International Journal of Hydrogen Energy*. 2011, 36(9). 5280-5288.
<https://doi.org/10.1016/j.ijhydene.2011.01.029>

Santala, Suvi et al. "Real-Time monitoring of intracellular wax ester metabolism". *Microbial Cell Factories*. 2011, 10(1). 1-8. <https://doi.org/10.1186/1475-2859-10-75>

Tolvanen, Katariina E. S. et al. "Simple enrichment system for hydrogen producers". *Applied and Environmental Microbiology*. 2011, 77(12). 4246-4248. <https://doi.org/10.1128/AEM.05150-11>

Carver, Sarah M. et al. "Thermophilic, anaerobic co-digestion of microalgal biomass and cellulose for H₂ production". *BIODEGRADATION*. 2011, 22(4). 805-814. <https://doi.org/10.1007/s10532-010-9419-z>

Nissilä, Marika E. et al. "Thermophilic hydrogen production from cellulose with rumen fluid enrichment cultures: Effects of different heat treatments". *International Journal of Hydrogen Energy*. 2011, 36(2). 1482-1490.
<https://doi.org/10.1016/j.ijhydene.2010.11.010>

Bhatti, Tariq M. et al. "Weathering of biotite in *Acidithiobacillus ferrooxidans* cultures". *Geomicrobiology Journal*. 2011, 28(2). 130-134. <https://doi.org/10.1080/01490451003720901>

Bhatti, Tariq M. et al. "Weathering of phlogopite in simulated bioleaching solutions". *International Journal of Mineral Processing*. 2011, 98(1-2). 30-34. <https://doi.org/10.1016/j.minpro.2010.10.004>

Nevatalo, Laura *Bioreactor applications utilizing mesophilic sulfate-reducing bacteria for treatment of mine wastewaters at 9-35 °C* Tampere University of Technology. Publication. Tampere: Tampere University of Technology. 2010.

Vestola, Elina A. et al. "Acid bioleaching of solid waste materials from copper, steel and recycling industries". *Hydrometallurgy*. 2010, 103(1-4). 74-79. <https://doi.org/10.1016/j.hydromet.2010.02.017>

Guglielmetti, Simone et al. "A dairy bacterium displays in vitro probiotic properties for the pharyngeal mucosa by antagonizing group A streptococci and modulating the immune response". *Infection and Immunity*. 2010, 78(11). 4734-4743. <https://doi.org/10.1128/IAI.00559-10>

Arioli, Stefania et al. "Alkalizing reactions streamline cellular metabolism in acidogenic microorganisms". *PLoS ONE*. 2010, 5(11, e15520). 1-8. <https://doi.org/10.1371/journal.pone.0015520>

Bhatti, Tariq M. et al. "Altered mineralogy associated with stirred tank bioreactor leaching of a black schist ore". *Hydrometallurgy*. 2010, 100(3-4). 181-184. <https://doi.org/10.1016/j.hydromet.2009.11.010>

Välilä, Anna-Liisa et al. "A novel biosensor for the detection of zearalenone family mycotoxins in milk". *Journal of Microbiological Methods*. 2010, 80(1). 44-48. <https://doi.org/10.1016/j.mimet.2009.10.017>

Pikkemaat, M.G. et al. "Application of a luminescent bacterial biosensor for the detection of tetracyclines in routine analysis of poultry muscle samples". *Food Additives and Contaminants Part A: Chemistry Analysis Control Exposure and Risk Assessment*. 2010, 27(8). 1112-1117. <https://doi.org/10.1080/19440041003794866>

Tao, Jing, Karen M. Mancl ja Olli H. Tuovinen. "Attenuation of pollutants in sanitary sewer overflow: Comparative evaluation of treatment with fixed media bioreactors". *Bioresource Technology*. 2010, 101(6). 1781-1786. <https://doi.org/10.1016/j.biortech.2009.10.038>

Kolehmainen, Raija E. et al. "Biodegradation of aqueous organic matter over seasonal changes: bioreactor experiments with indigenous lake water bacteria". *Journal of Environmental Engineering: ASCE*. 2010, 136(6). 607-615. [https://doi.org/10.1061/\(ASCE\)EE.1943-7870.0000197](https://doi.org/10.1061/(ASCE)EE.1943-7870.0000197)

Kivistö, Anniina, Ville Santala ja Matti Karp "Biohydrogen and 1,3-Propanediol production using halophilic fermentative bacteria". *ESF-Bielefeld-CeBiTec Conference, Microbes and Industrial Biotechnology, Bielefeld, Germany, 21-24 November 2010, Booklet of Abstracts*. 2010, 21-21.

Nevatalo, Laura M. et al. "Biological hydrogen sulfide production in an ethanol-lactate fed fluidized-bed bioreactor". *Bioresource Technology*. 2010, 101(1). 276-284. <https://doi.org/10.1016/j.biortech.2009.07.042>

Nurmi, Pauliina et al. "Biooxidation and precipitation for iron and sulfate removal from heap bioleaching effluent streams". *Hydrometallurgy*. 2010, 101(1-2). 7-14. <https://doi.org/10.1016/j.hydromet.2009.11.004>

Bigham, Jerry M. et al. "Characterization of jarosites produced by chemical synthesis over a temperature gradient from 2 to 40 °C". *International Journal of Mineral Processing*. 2010, 94(3-4). 121-128. <https://doi.org/10.1016/j.minpro.2010.01.005>

Sasaki, K. et al. "Characterization of secondary arsenic-bearing precipitates formed in the bioleaching of enargite by *Acidithiobacillus ferrooxidans*". *Hydrometallurgy*. 2010, 104(3-4). 424-431. <https://doi.org/10.1016/j.hydromet.2009.12.012>

Karadag, Dogan ja Jaakko A. Puhakka. "Direction of glucose fermentation towards hydrogen or ethanol production through on-line pH control". *International Journal of Hydrogen Energy*. 2010, 35(19). 10245-10251. <https://doi.org/10.1016/j.ijhydene.2010.07.139>

Karadag, Dogan ja Jaakko A. Puhakka. "Effect of changing temperature on anaerobic hydrogen production and microbial community composition in an open-mixed culture bioreactor". *International Journal of Hydrogen Energy*. 2010, 35(20). 10954-10959. <https://doi.org/10.1016/j.ijhydene.2010.07.070>

Karadag, Dogan ja Jaakko A. Puhakka. "Enhancement of anaerobic hydrogen production by iron and nickel". *International Journal of Hydrogen Energy*. 2010, 35(16). 8554-8560. <https://doi.org/10.1016/j.ijhydene.2010.04.174>

Tolvanen, Katariina E.S., Ville P. Santala ja Matti T. Karp. "[FeFe]-hydrogenase gene quantification and melting curve analysis from hydrogen-fermenting bioreactor samples". *International Journal of Hydrogen Energy*. 2010, 35(8). 3433-3439. <https://doi.org/10.1016/j.ijhydene.2010.01.132>

Gramp, Jonathan P. et al. "Formation of Fe-sulfides in cultures of sulfate-reducing bacteria". *Journal of Hazardous Materials*. 2010, 175(1-3). 1062-1067. <https://doi.org/10.1016/j.jhazmat.2009.10.119>

Nevatalo, Laura M. et al. "Hydrogenotrophic sulfate reduction in a gas-lift bioreactor operated at 9°C". *Journal of Microbiology and Biotechnology*. 2010, 20(3). 615-621. <https://doi.org/10.4014/jmb.0906.06016>

Kivistö, Anniina, Ville Santala ja Matti Karp. "Hydrogen production from glycerol using halophilic fermentative bacteria". *Bioresource Technology*. 2010, 101. 8671-8677. <https://doi.org/10.1016/j.biortech.2010.06.066>

Carver, Sarah M., Raghida Lepistö ja Olli H. Tuovinen "Hydrolysis and metabolism of cellulose by an anaerobic, thermophilic consortium". *Third International Symposium on Energy from Biomass and Waste, Venice, Italy, 8-11 November 2010*. 2010, 1-9.

Välimaa, Anna-Liisa *In vitro bioassays in bioactivity and residue assessments* Tampereen teknillinen yliopisto. Julkaisu. Tampere: Tampere University of Technology. 2010.

Violainen, Nina ja Anna-Liisa Välimaa "Kehittämishanke: Tenttiin lukemisesta jatkuvaan oppimiseen - Tapausesimerkinä Tampereen teknillisen yliopiston Nanobioteknologian opintojakso", Rutanen, Petra Rahkonen, Aimo Jutila, Suvi (toimittaneet). *Tunnista, kehitä, arvioi - vaikuttavia käytäntöjä opetuksen ja opetussuunnitelman kehittämiseen. Uutisia opetuksen kehittämisestä Oulun yliopiston laitoksilla*. 2010, 33-40.

Wang, Hong et al. "Microbial community structure in anaerobic co-digestion of grass silage and cow manure in a laboratory continuously stirred tank reactor". *BIODEGRADATION*. 2010, 21(1). 135-146. <https://doi.org/10.1007/s10532-009-9288-5>

Lakaniemi, Aino-Maija et al. "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>

Tolvanen, Katariina *Molecular methods for studying mixed hydrogen-fermenting microbial communities* Tampereen teknillinen yliopisto. Julkaisu. Tampere: Tampere University of Technology. 2010.

Guglielmetti, Simone et al. "Oral bacteria as potential probiotics for the pharyngeal mucosa". *Applied and Environmental Microbiology*. 2010, 76(12). 3048-3058. <https://doi.org/10.1128/AEM.00109-10>

Bevilaqua, D., O. Garcia Jr. ja Olli H. Tuovinen. "Oxidative dissolution of bornite by *Acidithiobacillus ferrooxidans*". *Process Biochemistry*. 2010, 45(1). 101-106. <https://doi.org/10.1016/j.procbio.2009.08.013>

Nurmi, Pauliina et al. "Predictive modelling of Fe(III) precipitation in iron removal process for bioleaching circuits". *Bioprocess and Biosystems Engineering*. 2010, 33(4). 449-456. <https://doi.org/10.1007/s00449-009-0346-5>

- Singh Gaur, Rashmi et al. "Pretreatment of turkey fat-containing wastewater in coarse sand and gravel/coarse sand bioreactors". *Bioresource Technology*. 2010, 101(3). 1106-1110. <https://doi.org/10.1016/j.biortech.2009.08.078>
- Wakeman, Kathryn D. et al. "Silage supports sulfate reduction in the treatment of metals- and sulfate-containing waste waters". *Water Research*. 2010, 44(17). 4932-4939. <https://doi.org/10.1016/j.watres.2010.07.025>
- Kaksonen, Anna H. et al. "Sulfate-reducing fluidized-bed bioreactor processes for acidic metal- and sulfate-containing waters". *SME Annual Meeting Feb. 28-Mar. 03, 2010, Phoenix, AZ, USA*. 2010, 1-6.
- Ojala, Johanna et al. "TEVA-tutkimusprojekti jatkaa tekopohjavesitiedon täydentämistä". *Vesitalous*. 2010, (5). 22-25.
- Nevatalo, Laura M. et al. "The effect of sub-optimal temperature on specific sulfidogenic activity of mesophilic SRB in an H₂-fed membrane bioreactor". *Process Biochemistry*. 2010, 45(3). 363-368. <https://doi.org/10.1016/j.procbio.2009.10.007>
- Li, Chun et al. "Two recombinant peptides, SpStrongylocins 1 and 2, from *Strongylocentrotus purpuratus*, show antimicrobial activity against Gram-positive and Gram-negative bacteria". *Developmental and Comparative Immunology*. 2010, 34(3). 286-292. <https://doi.org/10.1016/j.dci.2009.10.006>
- Lappalainen, Juha O. et al. "Comparison of the total mercury content in sediment samples with a mercury sensor bacteria test and *Vibrio fischeri* toxicity test". *Environmental Toxicology*. 2000, 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)
- Tauriainen, S. M., M. P. J. Virta ja M. T. Karp. "Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria". *Water Research*. 2000, 34(10). 2661-2666. [https://doi.org/10.1016/S0043-1354\(00\)00005-1](https://doi.org/10.1016/S0043-1354(00)00005-1)
- Korpela, Matti T. et al. "A recombinant *Escherichia coli* sensor strain for the detection of tetracyclines". *Analytical Chemistry*. 1998, 70(21). 4457-4462. <https://doi.org/10.1021/ac980740e>
- Suominen, A I, M T Karp ja P I Mäntsälä. "Fractionation of DNA with Sephacryl S-1000(R)". *Biochemistry Research International*. 1984, 8(2). 209-215.
- Karp, M T et al. "Time-resolved europium fluorescence in enzyme activity measurements: a sensitive protease assay". *Journal of applied biochemistry*. 1983, 5(6). 399-403.
- Karp, Matti T., Raimo P. Raunio ja Timo N-E. Lövgren. "Simultaneous extraction and combined bioluminescent assay of NAD⁺ and NADH". *ANALYTICAL BIOCHEMISTRY*. 1983, 128(1). 175-180. [https://doi.org/10.1016/0003-2697\(83\)90359-7](https://doi.org/10.1016/0003-2697(83)90359-7)