

Grigonytė-Lopez Rodriguez J, Suhonen H, Laitinen A, Tissari J, Kortelainen M, Tiitta P, Lähde A, Keskinen J, Jokiniemi J, Sippula O. 2020. A novel electrical charging condensing heat exchanger for efficient particle emission reduction in small wood boilers. *Renewable Energy*. 145:521-529. <https://doi.org/10.1016/j.renene.2019.06.052>

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>

Cai Y, Ferrer BR, Lastra JLM. 2019. Building university-industry co-innovation networks in transnational innovation ecosystems: Towards a transdisciplinary approach of integrating social sciences and artificial intelligence. *Sustainability*. 11(17). <https://doi.org/10.3390/su11174633>

Pääkkönen A, Aro K, Aalto P, Kontinen J, Kojo M. 2019. The potential of biomethane in replacing fossil fuels in heavy transport-a case study on Finland. *Sustainability*. 11(17). <https://doi.org/10.3390/su11174750>

Tura N, Ahola T. 2019. Towards a circular economy by leveraging hazardous resources: A case study of Fortum HorsePower. *Journal of Cleaner Production*. 230:518-526. <https://doi.org/10.1016/j.jclepro.2019.05.121>

Isoaho R, Aho A, Tukiainen A, Aho T, Raappana M, Salminen T, Reuna J, Guina M. 2019. Photovoltaic properties of low-bandgap (0.7–0.9eV) lattice-matched GaInNAsSb solar junctions grown by molecular beam epitaxy on GaAs. *Solar Energy Materials and Solar Cells*. 195:198-203. <https://doi.org/10.1016/j.solmat.2019.02.030>

Asp A, Hentilä T, Valkama M, Pikkuvirta J, Hujanen A, Huhtinen I. 2019. Impact of Different Concrete Types on Radio Propagation: Fundamentals and Practical RF Measurements. Rodrigues JJPC, Solic P, Perkovic T, Vukojevic K, Rodrigues JJPC, Patrono L, Nizetic S, editors. In 2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019. IEEE. <https://doi.org/10.23919/SpliTech.2019.8783022>

Rostami S, Heiska K, Puchko O, Leppanen K, Valkama M. 2019. Pre-Grant Signaling for Energy-Efficient 5G and Beyond Mobile Devices: Method and Analysis. *IEEE Transactions on Green Communications and Networking*. 3(2):418-432. <https://doi.org/10.1109/TGCN.2019.2893504>

Laasasenaho K, Lensu A, Lauhanen R, Rintala J. 2019. GIS-data related route optimization, hierarchical clustering, location optimization, and kernel density methods are useful for promoting distributed bioenergy plant planning in rural areas. *Sustainable Energy Technologies and Assessments*. 32:47-57. <https://doi.org/10.1016/j.seta.2019.01.006>

Yoo SK, Cotton SL, Sofotasios PC, Muhaidat S, Badarneh OS, Karagiannidis GK. 2019. Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels. In 2018 IEEE Global Communications Conference. IEEE. <https://doi.org/10.1109/GLOCOM.2018.8647778>

Kovalchukov R, Moltchanov D, Begishev V, Samuylov A, Andreev S, Koucheryavy Y, Samouylov K. 2019. Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth. In 2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE. <https://doi.org/10.1109/GLOCOM.2018.8647608>

Suntio T, Messo T, Berg M, Alenius H, Reinikka T, Luhtala R, Zenger K. 2019. Impedance-based interactions in grid-tied three-phase inverters in renewable energy applications. *Energies*. 12(3). <https://doi.org/10.3390/en12030464>

Amer E, Kuperman A, Suntio T. 2019. Direct fixed-step maximum power point tracking algorithms with adaptive perturbation frequency. *Energies*. 12(3). <https://doi.org/10.3390/en12030399>

Pääkkönen A, Tolvanen H, Kokko L. 2019. The economics of renewable CaC₂ and C₂H₂ production from biomass and CaO. *Biomass and Bioenergy*. 120:40-48. <https://doi.org/10.1016/j.biombioe.2018.10.020>

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>

Ruoko T-P, Hiltunen A, Iivonen T, Ulkuniemi R, Lahtonen K, Ali-Löytty H, Mizohata K, Valden M, Leskelä M, Tkachenko NV. 2019. Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes. *Journal of Materials Chemistry A*. 7(7):3206-3215. <https://doi.org/10.1039/C8TA09501A>

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>

Gonçalves LPL, Wang J, Vinati S, Barborini E, Wei XK, Heggen M, Franco M, Sousa JPS, Petrovykh DY, Soares OSGP, Kovnir K, Akola J, Kolen'ko YV. 2019. Combined experimental and theoretical study of acetylene semi-hydrogenation over Pd/Al₂O₃. *International Journal of Hydrogen Energy*. <https://doi.org/10.1016/j.ijhydene.2019.04.086>

Sankelo P, Jokisalo J, Nyman J, Vinha J, Sirén K. 2019. Cost-optimal energy performance measures in a new daycare building in cold climate. *International Journal of Sustainable Energy*. 38(2):104-122. <https://doi.org/10.1080/14786451.2018.1448398>

Hirvonen J, Jokisalo J, Heljo J, Kosonen R. 2019. Effect of apartment building energy renovation on hourly power demand. *International Journal of Sustainable Energy*. <https://doi.org/10.1080/14786451.2019.1613992>

Luhtala R, Messo T, Roinila T, Alenius H, Jong ED, Burstein A, Fabian A. 2019. Identification of three-phase grid impedance in the presence of parallel converters. *Energies*. 12(14). <https://doi.org/10.3390/en12142674>

Suntio T, Messo T. 2019. Power electronics in renewable energy systems. *Energies*. 12(10). <https://doi.org/10.3390/en12101852>

Vakkilainen E, Kontinen J, Orasuo V, Aalto P. 2019. Sustainability of bioenergy in Finland and globally – fact check. In 27th European Biomass Conference and Exhibition, EUBCE 2019. *ETA-Florence Renewable Energies*. pp. 1634-1635. (European Biomass Conference and Exhibition Proceedings).

Mämmelä J, Juuti T, Julkunen P. 2019. Technology valuation method for supporting knowledge management in technology decisions to gain sustainability. *Sustainability (Switzerland)*. 11(12). <https://doi.org/10.3390/su11123410>

Hirvonen J, Jokisalo J, Heljo J, Kosonen R. 2019. Towards the EU emissions targets of 2050: optimal energy renovation measures of Finnish apartment buildings. *International Journal of Sustainable Energy*. 38(7). <https://doi.org/10.1080/14786451.2018.1559164>

Rasa K, Heikkinen J, Hannula M, Arstila K, Kulju S, Hyväluoma J. 2018. How and why does willow biochar increase a clay soil water retention capacity?. *Biomass and Bioenergy*. 119:346-353. <https://doi.org/10.1016/j.biombioe.2018.10.004>

Moisio M, Kaasalainen T, Lehtinen T, Hedman M 2018. Energiatohokkaan arkkitehtisuunnittelun ohjekortisto. Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. 142 p. (Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu).

Lehtinen T, Papinsaari A-K, Kaasalainen T, Moisio M, Hedman M 2018. Peruskoulut ja energiatohokkuus: Tilallisista ja toiminnallisista suunnitteluperiaatteista. Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. 86 p. (Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu).

Ranta V, Aarikka-Stenroos L, Mäkinen SJ. 2018. Creating value in the circular economy: A structured multiple-case analysis of business models. *Journal of Cleaner Production*. 201:988-1000. <https://doi.org/10.1016/j.jclepro.2018.08.072>

Heijne AT, Liu D, Sulonen M, Sleutels T, Fabregat-Santiago F. 2018. Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy. *Journal of Power Sources*. 400:533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>

Lummi K, Rautiainen A, Jarventausta P, Heine P, Lehtinen J, Hyvarinen M, Salo J. 2018. Alternative Power-Based Pricing Schemes for Distribution Network Tariff of Small Customers. In *International Conference on Innovative Smart Grid Technologies, ISGT Asia 2018*. Institute of Electrical and Electronics Engineers Inc. pp. 581-586. <https://doi.org/10.1109/ISGT-Asia.2018.8467793>

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>

Angioni A, Lu S, Hooshyar H, Cairo I, Repo S, Ponci F, Della Giustina D, Kulmala A, Dedè A, Monti A, Del Rosario G, Vanfretti L, Garcia CC. 2018. A distributed automation architecture for distribution networks, from design to implementation. *Sustainable Energy, Grids and Networks*. 15:3-13. <https://doi.org/10.1016/j.segan.2017.04.001>

Aho A, Isoaho R, Tukiainen A, Gori G, Campesato R, Guina M. 2018. Dilute nitride triple junction solar cells for space applications: Progress towards highest AM0 efficiency. *Progress in Photovoltaics: Research and Applications*. 26(19):740-744. <https://doi.org/10.1002/pip.3011>

Barbato A, Dedè A, Della Giustina D, Massa G, Angioni A, Lipari G, Ponci F, Repo S. 2018. Lessons learnt from real-time monitoring of the low voltage distribution network. *Sustainable Energy, Grids and Networks*. 15:76-85. <https://doi.org/10.1016/j.segan.2017.05.002>

Lehtinen T, Virtanen H, Santala S, Santala V. 2018. Production of alkanes from CO₂ by engineered bacteria. *Biotechnology for Biofuels*. 11. <https://doi.org/10.1186/s13068-018-1229-2>

Tan LC, Espinosa-Ortiz EJ, Nancharaiyah YV, van Hullebusch ED, Gerlach R, Lens PN. 2018. Selenate removal in biofilm systems: Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community. *Journal of Chemical Technology and Biotechnology*. 93(8):2380-2389. <https://doi.org/10.1002/jctb.5586>

Hiltunen A, Ruoko T-P, Iivonen T, Lahtonen K, Ali-Löytty H, Sarlin E, Valden M, Leskelä M, Tkachenko N. 2018. Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting. *Sustainable Energy & Fuels*. 2(9):2124-2130. <https://doi.org/10.1039/C8SE00252E>

Salmela M, Lehtinen T, Efimova E, Santala S, Mangayil R. 2018. Metabolic pairing of aerobic and anaerobic production in a one-pot batch cultivation. *Biotechnology for Biofuels*. 11(1). <https://doi.org/10.1186/s13068-018-1186-9>

Sitbon M, Lineykin S, Schacham S, Suntio T, Kuperman A. 2018. Online dynamic conductance estimation based maximum power point tracking of photovoltaic generators. *Energy Conversion and Management*. 166:687-696. <https://doi.org/10.1016/j.enconman.2018.04.053>

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>

Saari J, Ali-Löytty H, Valden M. 2018. Role of Oxide Defects in ALD grown TiO₂ Coatings on Performance as Photoanode Protection Layer. Paper presented at *Optics & Photonics Days 2018*, Jyväskylä, Finland.

Dessi P, Porca E, Frunzo L, Lakaniemi A-M, Collins G, Esposito G, Lens PNL. 2018. Inoculum pretreatment differentially affects the active microbial community performing mesophilic and thermophilic dark fermentation of xylose. *International Journal of Hydrogen Energy*. 43(19):9233-9245. <https://doi.org/10.1016/j.ijhydene.2018.03.117>

- Suntio T. 2018. Dynamic modeling and analysis of PCM-controlled DCM-operating buck converters-A reexamination. *Energies*. 11(5):1-18. <https://doi.org/10.3390/en11051267>
- Elsehrawy F, Aho T, Niemi T, Guina M, Cappelluti F. 2018. Improved Light Trapping in Quantum Dot Solar Cells Using Double-sided Nanostructuring. In *Optics and Photonics for Energy and the Environment 2018*. OSA - The Optical Society. <https://doi.org/10.1364/EE.2018.JM4A.5>
- Cappelluti F, Kim D, van Eerden M, Cédola AP, Aho T, Bissels G, Elsehrawy F, Wu J, Liu H, Mulder P, Bauhuis G, Schermer J, Niemi T, Guina M. 2018. Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off. *Solar Energy Materials and Solar Cells*. 181:83-92. <https://doi.org/10.1016/j.solmat.2017.12.014>
- Dessi P, Porca E, Waters NR, Lakaniemi A-M, Collins G, Lens PNL. 2018. Thermophilic versus mesophilic dark fermentation in xylose-fed fluidised bed reactors: Biohydrogen production and active microbial community. *International Journal of Hydrogen Energy*. 43(11):5473-5485. <https://doi.org/10.1016/j.ijhydene.2018.01.158>
- Haavisto JM, Kokko ME, Lay C-H, Puhakka JA. 2017. Effect of hydraulic retention time on continuous electricity production from xylose in up-flow microbial fuel cell. *International Journal of Hydrogen Energy*. 42:27494-27502. <https://doi.org/10.1016/j.ijhydene.2017.05.068>
- Tampio E, Lehtonen E, Kinnunen V, Mönkäre T, Ervasti S, Kettunen R, Rasi S, Rintala J. 2017. A demand-based nutrient utilization approach to urban biogas plant investment based on regional crop fertilization. *Journal of Cleaner Production*. 164:19-29. <https://doi.org/10.1016/j.jclepro.2017.06.172>
- Saari J 2017. Atomikerroskasvatusmenetelmällä kasvatetun titaanidioksidikalvon ominaisuudet valosähkökemiallisessa veden hajottamisessa. 74 p.
- Suominen M, Lehtimäki S, Yewale R, Damlin P, Tuukkanen S, Kvarnström C. 2017. Electropolymerized polyazulene as active material in flexible supercapacitors. *Journal of Power Sources*. 356:181-190. <https://doi.org/10.1016/j.jpowsour.2017.04.082>
- Kotilainen M, Krumpolec R, Franta D, Souček P, Homola T, Cameron DC, Vuoristo P. 2017. Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers. *Solar Energy Materials and Solar Cells*. 166:140-146. <https://doi.org/10.1016/j.solmat.2017.02.033>
- Garcia N, Acha E. 2017. On the Efficient Calculation of the Periodic Steady-State Response of Grid-Connected Wind Parks - Part I. *IEEE Transactions on Sustainable Energy*. 8(2):458-467. <https://doi.org/10.1109/TSTE.2016.2606352>
- Lappalainen K, Valkealahti S. 2017. Effects of PV array layout, electrical configuration and geographic orientation on mismatch losses caused by moving clouds. *Solar Energy*. 144:548-555. <https://doi.org/10.1016/j.solener.2017.01.066>
- 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>
- Kordmahaleh AA, Naghashzadegan M, Javaherdeh K, Khoshgoftar M. 2017. Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System. *International Journal of Photoenergy*. 2017. <https://doi.org/10.1155/2017/4210184>
- Hannula MK, Lahtonen KT, Isotalo TJ, Saari JS, Valden MO. 2016. Thermal Modification of ALD Grown Titanium Oxide Ultra Thin Film for Photoanode Applications. Paper presented at Symposium on Future Prospects for Photonics, Tampere, Finland.

Lappalainen K, Valkealahti S. 2016. Apparent velocity of shadow edges caused by moving clouds. *Solar Energy*. 138:47-52. <https://doi.org/10.1016/j.solener.2016.09.008>

Lappalainen K, Valkealahti S. 2016. Analysis of shading periods caused by moving clouds. *Solar Energy*. 135:188-196. <https://doi.org/10.1016/j.solener.2016.05.050>

Laitinen S, Laitinen J, Fagernäs L, Korpijärvi K, Korpinen L, Ojanen K, Aatamila M, Jumpponen M, Koponen H, Jokiniemi J. 2016. Exposure to biological and chemical agents at biomass power plants. *Biomass & Bioenergy*. 93:78-86. <https://doi.org/10.1016/j.biombioe.2016.06.025>

Kolesnik S, Sitbon M, Agranovich G, Kuperman A, Suntio T. 2016. Comparison of photovoltaic and wind generators as dynamic input sources to power processing interfaces. In 2016 2nd International Conference on Intelligent Energy and Power Systems, IEPS 2016 - Conference Proceedings. IEEE. <https://doi.org/10.1109/IEPS.2016.7521859>

Tampio E, Marttinen S, Rintala J. 2016. Liquid fertilizer products from anaerobic digestion of food waste: Mass, nutrient and energy balance of four digestate liquid treatment systems. *Journal of Cleaner Production*. 125:22–32. <https://doi.org/10.1016/j.jclepro.2016.03.127>

Supponen A, Rautiainen A, Markkula J, Mäkinen A, Järventausta P, Repo S. 2016. Power quality in distribution networks with electric vehicle charging - A research methodology based on field tests and real data. In 2016 11th International Conference on Ecological Vehicles and Renewable Energies, EVER 2016. IEEE. <https://doi.org/10.1109/EVER.2016.7476376>

Polojärvi V, Aho A, Tukiainen A, Raappana M, Aho T, Schramm A, Guina M. 2016. Influence of As/group-III flux ratio on defects formation and photovoltaic performance of GaInNAs solar cells. *Solar Energy Materials and Solar Cells*. 149:213-220. <https://doi.org/10.1016/j.solmat.2016.01.024>

Suleimanov SK, Berger P, Dyskin VG, Dzhanlich MU, Bugakov AG, Dudko OA, Kulagina NA, Kim M. 2016. Antireflection composite coatings for organic solar cells. *Applied Solar Energy (English translation of Geliotekhnika)*. 52(2):157-158. <https://doi.org/10.3103/S0003701X1602016X>

Laasasenaho K, Lensu A, Rintala J. 2016. Planning land use for biogas energy crop production: The potential of cutaway peat production lands. *Biomass & Bioenergy*. 85:355-362. <https://doi.org/10.1016/j.biombioe.2015.12.030>

Butti SK, Velvizhi G, Sulonen MLK, Haavisto JM, Oguz Koroglu E, Yusuf Cetinkaya A, Singh S, Arya D, Annie Modestra J, Vamsi Krishna K, Verma A, Ozkaya B, Lakaniemi A-M, Puhakka JA, Venkata Mohan S. 2016. Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling. *Renewable and Sustainable Energy Reviews*. 53:462-476. <https://doi.org/10.1016/j.rser.2015.08.058>

Kotilainen M, Honkanen M, Mizohata K, Vuoristo P. 2016. Influence of temperature-induced copper diffusion on degradation of selective chromium oxy-nitride solar absorber coatings. *Solar Energy Materials and Solar Cells*. 145:323-332. <https://doi.org/10.1016/j.solmat.2015.10.034>

Kannisto MS, Mangayil RK, Shrivastava-Bhattacharya A, Pletschke BI, Karp MT, Santala VP. 2015. Metabolic engineering of *Acinetobacter baylyi* ADP1 for removal of *Clostridium butyricum* growth inhibitors produced from lignocellulosic hydrolysates. *Biotechnology for Biofuels*. 8(1). <https://doi.org/10.1186/s13068-015-0389-6>

Gadelovits S, Sitbon M, Suntio T, Kuperman A. 2015. Single-source multibattery solar charger: Case study and implementation issues. *Progress in Photovoltaics: Research and Applications*. 23(12):1916-1928. <https://doi.org/10.1002/pip.2591>

Ahmed Z, George L, Hiltunen A, Lemmetyinen H, Hukka T, Efimov A. 2015. Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces. *Journal of Materials Chemistry A*. 3(25):13332-13339. <https://doi.org/10.1039/c5ta02241j>

Sitbon M, Schacham S, Suntio T, Kuperman A. 2015. Improved adaptive input voltage control of a solar array interfacing current mode controlled boost power stage. *Energy Conversion and Management*. 98:369-375. <https://doi.org/10.1016/j.enconman.2015.03.100>

Tampio E, Ervasti S, Rintala J. 2015. Characteristics and agronomic usability of digestates from laboratory digesters treating food waste and autoclaved food waste. *Journal of Cleaner Production*. 94:86-92. <https://doi.org/10.1016/j.jclepro.2015.01.086>

Alaviitala T, Mattila TJ. 2015. Engineered nanomaterials reduce but do not resolve life cycle environmental impacts of power capacitors. *Journal of Cleaner Production*. 93:347-353. <https://doi.org/10.1016/j.jclepro.2015.01.036>

Carver SM, Nelson MC, Yu Z, Tuovinen OH. 2015. Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples. *Biomass & Bioenergy*. 75:11-22. <https://doi.org/10.1016/j.biombioe.2015.02.005>

Mangayil R, Aho T, Karp M, Santala V. 2015. Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components. *Renewable Energy*. 75:583-589. <https://doi.org/10.1016/j.renene.2014.10.051>

Liu Z, Wu Q, Christensen L, Rautiainen A, Xue Y. 2015. Driving pattern analysis of Nordic region based on National Travel Surveys for electric vehicle integration. *Journal of Modern Power Systems and Clean Energy*. 3(2):180-189. <https://doi.org/10.1007/s40565-015-0127-x>

Kolesnik S, Sitbon M, Gadelovits S, Suntio T, Kuperman A. 2015. Interfacing renewable energy sources for maximum power transfer-Part II: Dynamics. *Renewable and Sustainable Energy Reviews*. 51:1771-1783. <https://doi.org/10.1016/j.rser.2015.04.043>

Aho A, Polojärvi V, Korpijärvi VM, Salmi J, Tukiainen A, Laukkanen P, Guina M. 2014. Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells. *Solar Energy Materials and Solar Cells*. 124:150-158. <https://doi.org/10.1016/j.solmat.2014.01.044>

Ciranna A, Ferrari R, Santala V, Karp M. 2014. 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*. 39(12):6391-6401. <https://doi.org/10.1016/j.ijhydene.2014.02.047>

Qvintus P, Kataja K, Heikkilä P, Salmela J, Lehmonen J, Ketoja J, Hänninen T, Harlin A, Härkäsalmi T, Vuorinen J, Vuorinen T. 2014. Design driven world of cellulose-from bulk to luxury?. In *Fibre Value Chain Conference and Expo 2014: Pulp and Paper Bioenergy Bioproducts*. Appita Inc. pp. 67-74.

Miettunen K, Vapaavuori J, Tiihonen A, Poskela A, Lahtinen P, Halme J, Lund P. 2014. Nanocellulose aerogel membranes for optimal electrolyte filling in dye solar cells. *NANO ENERGY*. 8:95-102. <https://doi.org/10.1016/j.nanoen.2014.05.013>

Gomes M, Leroy C, Lemaire S, Marmin C, Mordon S, Ernst O. 2014. Scanner abdominal: Étude comparative de l'exposition patient en routine clinique sur des appareils avec et sans reconstruction itérative. *Radioprotection*. 49(1):35-41. <https://doi.org/10.1051/radiopro/2013078>

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.

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

Seppälä JJ, Larjo A, Aho T, Yli-Harja O, Karp MT, Santala V. 2013. Prospecting hydrogen production of *Escherichia coli* by metabolic network modeling. *International Journal of Hydrogen Energy*. 38(27):11780-11789. <https://doi.org/10.1016/j.ijhydene.2013.07.002>

Kantola M, Saari A. 2013. Renewable vs. traditional energy management solutions - A Finnish hospital facility case. *Renewable Energy*. 57:539-545. <https://doi.org/10.1016/j.renene.2013.02.023>

Valkila N, Saari A. 2013. Attitude-behaviour gap in energy issues: Case study of three different Finnish residential areas. *ENERGY FOR SUSTAINABLE DEVELOPMENT*. 17(1):24-34. <https://doi.org/10.1016/j.esd.2012.10.001>

Lahtinen K, Maydannik P, Kääriäinen T, Seppänen T, Cameron DC, Johansson P, Kraft M, Kuusipalo J. 2013. Roll-to-roll atomic layer deposition for flexible substrates. In *TAPPI International Conference on Nanotechnology 2013*. TAPPI Press. pp. 726-739.

Stepien M, Chinga-Carrasco G, Saarinen JJ, Teisala H, Tuominen M, Aromaa M, Haapanen J, Kuusipalo J, Mäkelä JM, Toivakka M. 2013. Wear resistance of nanoparticle coatings on paperboard. In *TAPPI International Conference on Nanotechnology 2013*. TAPPI Press. pp. 821-829.

Seppälä M, Pyykkönen V, Laine A, Rintala J. 2012. Methane production from maize in Finland - Screening for different maize varieties and plant parts. *Biomass & Bioenergy*. 46(November):282-290. <https://doi.org/10.1016/j.biombioe.2012.08.016>

Valkila N, Saari A. 2012. Consumer panel on the readiness of finns to behave in a more pro-environmental manner. *Sustainability*. 4(7):1561-1579. <https://doi.org/10.3390/su4071561>

Praveenkumar R, Johny K, MubarakAli D, Vijayan D, Thajuddin N, Gunasekaran M. 2012. Demonstration of increased lipid accumulation potential of *Stigeoclonium* sp., Kütz. BUM11007 under nitrogen starved regime: A new source of lipids for biodiesel production. *Journal of Biobased Materials and Bioenergy*. 6(2):209-213. <https://doi.org/10.1166/jbmb.2012.1200>

Praveenkumar R, Shameera K, Mahalakshmi G, Akbarsha MA, Thajuddin N. 2012. Influence of nutrient deprivations on lipid accumulation in a dominant indigenous microalga *Chlorella* sp., BUM11008: Evaluation for biodiesel production. *Biomass & Bioenergy*. 37:60-66. <https://doi.org/10.1016/j.biombioe.2011.12.035>

Puranen J, Laakso J, Hyvärinen L, Kylmälahti M, Vuoristo P. 2012. High temperature oxidation behaviour of MnCO₂O₄ coating on crofer 22 APU manufactured by a novel solution precursor plasma spray process (SPPS). In *ASME 2012 10th International Conference on Fuel Cell Science, Engineering and Technology Collocated with the ASME 2012 6th International Conference on Energy Sustainability, FUELCELL 2012*. The American Society of Mechanical Engineers ASME. pp. 213-218. <https://doi.org/10.1115/FuelCell2012-91385>

Pakarinen OM, Kaparaju PLN, Rintala JA. 2011. Hydrogen and methane yields of untreated, water-extracted and acid (HCl) treated maize in one- and two-stage batch assays. *International Journal of Hydrogen Energy*. 36(22):14401-14407. <https://doi.org/10.1016/j.ijhydene.2011.08.028>

Rasi S, Läntelä J, Rintala J. 2011. Trace compounds affecting biogas energy utilisation - A review. *Energy Conversion and Management*. 52(12):3369-3375. <https://doi.org/10.1016/j.enconman.2011.07.005>

Kaparaju P, Rintala J. 2011. Mitigation of greenhouse gas emissions by adopting anaerobic digestion technology on dairy, sow and pig farms in Finland. *Renewable Energy*. 36(1):31-41. <https://doi.org/10.1016/j.renene.2010.05.016>

Medyna G, Coatanea E, Millet D. 2011. Environmental and economic evaluation of solar thermal panels using exergy and dimensional analysis. In *Glocalized Solutions for Sustainability in Manufacturing - Proceedings of the 18th CIRP International Conference on Life Cycle Engineering*. pp. 647-651. https://doi.org/10.1007/978-3-642-19692-8_112

Puranen J, Hyvärinen L, Lagerbom J, Kylmälahti M, Koivuluoto H, Vuoristo P. 2011. Manganese-cobalt spinel coatings for SOFC metallic interconnects manufactured by conventional plasma spraying (PS) and suspension plasma spraying (SPS) . In ASME 2011 9th International Conference on Fuel Cell Science, Engineering and Technology. Collocated with ASME 2011 5th International Conference on Energy Sustainability, FUELCELL 2011. pp. 237-244. <https://doi.org/10.1115/FuelCell2011-54750>

Rasi S, Lehtinen J, Rintala J. 2010. Determination of organic silicon compounds in biogas from wastewater treatments plants, landfills, and co-digestion plants. *Renewable Energy*. 35(12):2666-2673. <https://doi.org/10.1016/j.renene.2010.04.012>

Pakarinen OM, Tähti HP, Rintala JA. 2009. One-stage H₂ and CH₄ and two-stage H₂ + CH₄ production from grass silage and from solid and liquid fractions of NaOH pre-treated grass silage. *Biomass & Bioenergy*. 33(10):1419-1427. <https://doi.org/10.1016/j.biombioe.2009.06.006>

Lehtomäki A, Viinikainen TA, Rintala JA. 2008. Screening boreal energy crops and crop residues for methane biofuel production. *Biomass & Bioenergy*. 32(6):541-550. <https://doi.org/10.1016/j.biombioe.2007.11.013>

Pakarinen O, Lehtomäki A, Rintala J. 2008. Batch dark fermentative hydrogen production from grass silage: The effect of inoculum, pH, temperature and VS ratio. *International Journal of Hydrogen Energy*. 33(2):594-601. <https://doi.org/10.1016/j.ijhydene.2007.10.008>

Lehtomäki A, Huttunen S, Rintala JA. 2007. Laboratory investigations on co-digestion of energy crops and crop residues with cow manure for methane production: Effect of crop to manure ratio. *Resources Conservation and Recycling*. 51(3):591-609. <https://doi.org/10.1016/j.resconrec.2006.11.004>

Rasi S, Veijanen A, Rintala J. 2007. Trace compounds of biogas from different biogas production plants. *Energy*. 32(8):1375-1380. <https://doi.org/10.1016/j.energy.2006.10.018>

Kaparaju P, Rintala J. 2005. Anaerobic co-digestion of potato tuber and its industrial by-products with pig manure. *Resources Conservation and Recycling*. 43(2):175-188. <https://doi.org/10.1016/j.resconrec.2004.06.001>