

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. In J. J. P. C. Rodrigues, P. Solic, T. Perkovic, K. Vukojevic, J. J. P. C. Rodrigues, L. Patrono, & S. Nizetic (Eds.), *2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019* IEEE. <https://doi.org/10.23919/SpliTech.2019.8783022>

Jaakkola, H., Henno, J., Mäkelä, J., & Thalheim, B. (2019). Artificial intelligence yesterday, today and tomorrow. In K. Skala, Z. Car, P. Pale, D. Huljenic, M. Janjic, M. Koracic, V. Sruk, S. Ribaric, T. G. Grbac, Z. Butkovic, M. Cicin-Sain, D. Skvorc, M. Mauher, S. Babic, S. Gros, B. Vrdoljak, ... E. Tijan (Eds.), *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings* (pp. 860-867). IEEE. <https://doi.org/10.23919/MIPRO.2019.8756913>

Linna, P., Narra, N., & Grönman, J. (2019). Intelligent data service for farmers. In K. Skala, Z. Car, P. Pale, D. Huljenic, M. Janjic, M. Koracic, V. Sruk, S. Ribaric, T. G. Grbac, Z. Butkovic, M. Cicin-Sain, D. Skvorc, M. Mauher, S. Babic, S. Gros, B. Vrdoljak, ... E. Tijan (Eds.), *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings* (pp. 1072-1075). IEEE. <https://doi.org/10.23919/MIPRO.2019.8756688>

Henno, J., Jaakkola, H., & Mäkelä, J. (2019). Teaching for virtual work. In K. Skala, Z. Car, P. Pale, D. Huljenic, M. Janjic, M. Koracic, V. Sruk, S. Ribaric, T. G. Grbac, Z. Butkovic, M. Cicin-Sain, D. Skvorc, M. Mauher, S. Babic, S. Gros, B. Vrdoljak, ... E. Tijan (Eds.), *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings* (pp. 818-826). IEEE. <https://doi.org/10.23919/MIPRO.2019.8756778>

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>

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), [464]. <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), [399]. <https://doi.org/10.3390/en12030399>

Gonçalves, L. P. L., Wang, J., Vinati, S., Barborini, E., Wei, X. K., Heggen, M., ... Kolen'ko, Y. V. (2019). Combined experimental and theoretical study of acetylene semi-hydrogenation over Pd/Al<sub>2</sub>O<sub>3</sub>. *International Journal of Hydrogen Energy*. <https://doi.org/10.1016/j.ijhydene.2019.04.086>

Luhtala, R., Messo, T., Roinila, T., Alenius, H., Jong, E. D., Burstein, A., & Fabian, A. (2019). Identification of three-phase grid impedance in the presence of parallel converters. *Energies*, *12*(14), [2674]. <https://doi.org/10.3390/en12142674>

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

Far, M. F., Mustafa, B., Martin, F., Rasilo, P., & Belahcen, A. (2018). Flux-Weakening Control for IPMSM Employing Model Order Reduction. In *2018 23rd International Conference on Electrical Machines, ICEM 2018* (pp. 1510-1516). IEEE. <https://doi.org/10.1109/ICELMACH.2018.8506693>

Far, M. F., Mukherjee, V., Martin, F., Rasilo, P., & Belahcen, A. (2018). Model Order Reduction of Bearingless Reluctance Motor Including Eccentricity. In *2018 23rd International Conference on Electrical Machines, ICEM 2018* (pp. 2243-2249). IEEE. <https://doi.org/10.1109/ICELMACH.2018.8506758>

Heijne, A. T., 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>

- Repo, S., Pylvänäinen, J., Kauppinen, M., Repo, S., & Jarventausta, P. (2018). Automatic Meter Infrastructure (AMI) as a part of flexibility market. In *15th International Conference on the European Energy Market, EEM 2018* (Vol. 2018-June). [8469765] (International Conference on the European Energy Market). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2018.8469765>
- Valta, J., Makinen, S., Kotilainen, K., Rautiainen, A., & Järventausta, P. (2018). Comparison of innovation policies for electric vehicle business ecosystems. In *15th International Conference on the European Energy Market, EEM 2018* (Vol. 2018-June). [8469785] (International Conference on the European Energy Market). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2018.8469785>
- Haakana, J., Haapaniemi, J., Lassila, J., Partanen, J., Niska, H., & Rautiainen, A. (2018). Effects of electric vehicles and heat pumps on long-term electricity consumption scenarios for rural areas in the nordic environment. In *15th International Conference on the European Energy Market, EEM 2018* (Vol. 2018-June). [8469937] (International Conference on the European Energy Market). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2018.8469937>
- Lummi, K., Rautiainen, A., Peltonen, L., Repo, S., Järventausta, P., & Rintala, J. (2018). Microgrids as part of electrical energy system - Pricing scheme for network tariff of DSO. In *15th International Conference on the European Energy Market, EEM 2018* (Vol. 2018-June). [8469965] (International Conference on the European Energy Market). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2018.8469965>
- Mashlakov, A., Tikka, V., Honkapuro, S., Partanen, J., Repo, S., Järventausta, P., ... Aro, M. (2018). Use case description of real-time control of microgrid flexibility. In *15th International Conference on the European Energy Market, EEM 2018* (Vol. 2018-June). [8469218] (International Conference on the European Energy Market). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2018.8469218>
- 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* (pp. 581-586). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ISGT-Asia.2018.8467793>
- Ortombina, L., Liegmann, E., Karamanakos, P., Tinazzi, F., Zigliotto, M., & Kennel, R. (2018). Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives. In *2018 IEEE 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018* [8460173] IEEE. <https://doi.org/10.1109/COMPEL.2018.8460173>
- Angioni, A., Lu, S., Hooshyar, H., Cairo, I., Repo, S., Ponci, F., ... Garcia, C. C. (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>
- Barbato, A., Dedè, A., Della Giustina, D., Massa, G., Angioni, A., Lipari, G., ... 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>
- Castro, L. M., Acha, E., & Rodriguez-Rodriguez, J. R. (2018). Efficient method for the real-time contingency analysis of meshed HVDC power grids fed by VSC stations. *IET Generation, Transmission and Distribution*, 12(13), 3158-3166. <https://doi.org/10.1049/iet-gtd.2017.1104>
- Zhao, J., Prioli, M., Stenvall, A., Salmi, T., Gao, Y., Caiffi, B., ... Sorbi, M. (2018). Mechanical stress analysis during a quench in CLIQ protected 16 T dipole magnets designed for the future circular collider. *Physica C: Superconductivity and its Applications*, 550, 27-34. <https://doi.org/10.1016/j.physc.2018.04.003>
- Koponen, P., Hanninen, S., Mutanen, A., Koskela, J., Rautiainen, A., Järventausta, P., ... Koivisto, H. (2018). Improved modelling of electric loads for enabling demand response by applying physical and data-driven models: Project Response . In *2018 IEEE International Energy Conference, ENERGYCON 2018* (pp. 1-6). IEEE. <https://doi.org/10.1109/ENERGYCON.2018.8398794>

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>

Kotilainen, K., Mäkinen, S. J., & Valta, J. (2018). Sustainable electric vehicle - Prosumer framework and policy mix. In *2017 IEEE Innovative Smart Grid Technologies - Asia: Smart Grid for Smart Community, ISGT-Asia 2017* (pp. 1-6). IEEE. <https://doi.org/10.1109/ISGT-Asia.2017.8378406>

Dessi, P., Porca, E., Frunzo, L., Lakaniemi, A-M., Collins, G., Esposito, G., & Lens, P. N. L. (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>

Supponen, A., Repo, S., & Kulmala, A. (2018). Coordinated voltage control as a replacement for passive network reinforcements-A case study. In *2017 IEEE International Conference on Smart Grid Communications, SmartGridComm 2017* (pp. 326-331). IEEE. <https://doi.org/10.1109/SmartGridComm.2017.8340714>

Castro, L. M., & Acha, E. (2018). A new method to assess the contribution of VSC-HVDC connected wind farms to the primary frequency control of power networks. *Electric Power Systems Research*, 154, 48-58. <https://doi.org/10.1016/j.epsr.2017.08.011>

Attar, M., Homaei, O., Falaghi, H., & Siano, P. (2018). A novel strategy for optimal placement of locally controlled voltage regulators in traditional distribution systems. *International Journal of Electrical Power and Energy Systems*, 96, 11-22. <https://doi.org/10.1016/j.ijepes.2017.09.028>

Suntio, T. (2018). Dynamic modeling and analysis of PCM-controlled DCM-operating buck converters-A reexamination. *Energies*, 11(5), 1-18. [en11051267]. <https://doi.org/10.3390/en11051267>

Dessi, P., Porca, E., Waters, N. R., Lakaniemi, A-M., Collins, G., & Lens, P. N. L. (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, J. M., Kokko, M. E., Lay, C-H., & Puhakka, J. A. (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>

Tuominen, V., Reponen, H., Kulmala, A., Lu, S., & Repo, S. (2017). Real-time hardware- and software-in-the-loop simulation of decentralised distribution network control architecture. *IET Generation, Transmission and Distribution*, 11 (12), 3057-3064. <https://doi.org/10.1049/iet-gtd.2016.1570>

Pirjola, L., Rönkkö, T., Saukko, E., Parviainen, H., Malinen, A., Alanen, J., & Saveljeff, H. (2017). Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels. *Fuel*, 202, 154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>

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>

Lummi, K., Rautiainen, A., Järventausta, P., Huhta, K., Talus, K., & Kojo, M. (2017). Aspects of advancement of distribution tariffs for small consumers in Finland. In *2017 14th International Conference on the European Energy Market, EEM 2017* IEEE. <https://doi.org/10.1109/EEM.2017.7981937>

Rautiainen, A., Koskela, J., Vilppo, O., Supponen, A., Kojo, M., Toivanen, P., ... Järventausta, P. (2017). Attractiveness of demand response in the Nordic electricity market - Present state and future prospects. In *2017 14th International Conference on the European Energy Market, EEM 2017* IEEE. <https://doi.org/10.1109/EEM.2017.7981925>

- Honkapuro, S., Haapaniemi, J., Haakana, J., Lassila, J., Belonogova, N., Partanen, J., ... Järventausta, P. (2017). Development options for distribution tariff structures in Finland. In *2017 14th International Conference on the European Energy Market, EEM 2017* IEEE. <https://doi.org/10.1109/EEM.2017.7981930>
- Kotilainen, K., Valta, J., Mäkinen, S. J., & Järventausta, P. (2017). Understanding consumers' renewable energy behaviour beyond 'homo economicus': An exploratory survey in four European countries. In *2017 14th International Conference on the European Energy Market, EEM 2017* IEEE. <https://doi.org/10.1109/EEM.2017.7981932>
- Kramb, J., Gómez-Barea, A., DeMartini, N., Romar, H., Doddapaneni, T. R. K. C., & Konttinen, J. (2017). The effects of calcium and potassium on CO<sub>2</sub> gasification of birch wood in a fluidized bed. *Fuel*, *196*, 398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>
- Repo, S., Ponci, F., Della Giustina, D., Alvarez, A., Corchero Garcia, C., Al-Jassim, Z., ... Kulmala, A. (2017). The IDE4L Project: Defining, Designing, and Demonstrating the Ideal Grid for All. *IEEE POWER AND ENERGY MAGAZINE*, *15*(3), 41-51. <https://doi.org/10.1109/MPE.2017.2662329>
- Kivimäki, J., Sitbon, M., Kolesnik, S., Kuperman, A., & Suntio, T. (2017). Determining maximum MPP-tracking sampling frequency for input-voltage-controlled PV-interfacing converter. In *8th Annual IEEE Energy Conversion Congress & Exposition (ECCE 2016)* IEEE. <https://doi.org/10.1109/ECCE.2016.7855036>
- Matikainen, V., Rubio, S., Ojala, N., Koivuluoto, H., Schubert, J., Houdková, S., & Vuoristo, P. (2017). Cavitation erosion, slurry erosion and solid particle erosion performance of metal matrix composite (MMC) coatings sprayed with modern high velocity thermal spray processes. In *Materials Science and Technology Conference and Exhibition 2017, MS and T 2017: October 8-12, 2017, Pittsburgh, Pennsylvania USA* (Vol. 2, pp. 1161-1163). Association for Iron and Steel Technology, AISTECH.
- Ntziachristos, L., Saukko, E., Lehtoranta, K., Rönkkö, T., Timonen, H., Simonen, P., ... Keskinen, J. (2016). Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. *Fuel*, *186*, 456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Castro, L. M., & Acha, E. (2016). A Unified Modeling Approach of Multi-Terminal VSC-HVDC Links for Dynamic Simulations of Large-Scale Power Systems. *IEEE Transactions on Power Systems*, *31*(6), 5051-5060. <https://doi.org/10.1109/TPWRS.2016.2527498>
- Kramb, J., Konttinen, J., Backman, R., Salo, K., & Roberts, M. (2016). Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood. *Fuel*, *181*, 319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>
- Acha, E., Rubbrecht, T., & Castro, L. M. (2016). Power flow solutions of AC/DC micro-grid structures. In *19th Power Systems Computation Conference, PSCC 2016* IEEE. <https://doi.org/10.1109/PSCC.2016.7540815>
- 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>
- Lummi, K., Rautiainen, A., Järventausta, P., Heine, P., Lehtinen, J., & Hyvärinen, M. (2016). Cost-causation based approach in forming power-based distribution network tariff for small customers. In *2016 13th International Conference on the European Energy Market, EEM 2016* IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2016.7521251>
- Supponen, A., Rautiainen, A., Lummi, K., Järventausta, P., & Repo, S. (2016). Network impacts of distribution power tariff schemes with active customers. In *2016 13th International Conference on the European Energy Market, EEM 2016* IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2016.7521237>

Kotilainen, K., Mäkinen, S. J., Järventausta, P., Rautiainen, A., & Markkula, J. (2016). The role of residential prosumers initiating the energy innovation ecosystem to future flexible energy system. In *2016 13th International Conference on the European Energy Market, EEM 2016* IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/EEM.2016.7521325>

Acha, E., & Castro, L. M. (2016). A generalized frame of reference for the incorporation of, multi-terminal VSC-HVDC systems in power flow solutions. *Electric Power Systems Research, 136*, 415-424. <https://doi.org/10.1016/j.epsr.2016.03.009>

Kramb, J., DeMartini, N., Perander, M., Moilanen, A., & Konttinen, J. (2016). Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO<sub>2</sub>. *Fuel Processing Technology, 148*, 50-59. <https://doi.org/10.1016/j.fuproc.2016.01.031>

Alanen, J., Saukko, E., Lehtoranta, K., Murtonen, T., Timonen, H., Hillamo, R., ... Rönkkö, T. (2015). The formation and physical properties of the particle emissions from a natural gas engine. *Fuel, 162*, 155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>

Karamanakos, P., Geyer, T., & Kennel, R. (2015). Suboptimal search strategies with bounded computational complexity to solve long-horizon direct model predictive control problems. In *2015 IEEE Energy Conversion Congress and Exposition, ECCE 2015* (pp. 334-341). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ECCE.2015.7309707>

Bajamundi, C. J. E., Vainikka, P., Hedman, M., Silvennoinen, J., Heinanen, T., Taipale, R., & Konttinen, J. (2015). Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel. *Fuel, 155*, 25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

Hakala, T., Lähdeaho, T., & Järventausta, P. (2015). Low-Voltage DC Distribution-Utilization Potential in a Large Distribution Network Company. *IEEE Transactions on Power Delivery, 30*(4), 1694-1701. <https://doi.org/10.1109/TPWRD.2015.2398199>

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>

Bito, J., Jeong, S., & Tentzeris, M. M. (2015). A real-time electrically controlled active matching circuit utilizing genetic algorithms for biomedical WPT applications. In *2015 IEEE Wireless Power Transfer Conference, WPTC 2015* [7140168] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/WPT.2015.7140168>

Perander, M., DeMartini, N., Brink, A., Kramb, J., Karlström, O., Hemming, J., ... Hupa, M. (2015). Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char. *Fuel, 150*, 464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

Rasilo, P., Salem, A., Abdallah, A., De Belie, F., Dupré, L., & Melkebeek, J. A. (2015). Effect of Multilevel Inverter Supply on Core Losses in Magnetic Materials and Electrical Machines. *IEEE Transactions on Energy Conversion, 30*(2), 736-744. [6980114]. <https://doi.org/10.1109/TEC.2014.2372095>

Castro, L. M., Acha, E., & Fuente-Esquivel, C. R. (2015). A novel VSC-HVDC link model for dynamic power system simulations. *Electric Power Systems Research, 126*, 111-120. <https://doi.org/10.1016/j.epsr.2015.05.003>

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>

Karvountzis-Kontakiotis, A., & Ntziachristos, L. (2015). Enquête de la variabilité cycle-cycle du NO dans la combustion homogène. *OIL AND GAS SCIENCE AND TECHNOLOGY : REVUE DE L'INSTITUT FRANCAIS DU PETROLE, 70*(1), 111-123. <https://doi.org/10.2516/ogst/2013199>

- Geyer, T., Karamanakos, P., & Kennel, R. (2014). On the benefit of long-horizon direct model predictive control for drives with LC filters. In *2014 IEEE Energy Conversion Congress and Exposition, ECCE 2014* (pp. 3520-3527). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ECCE.2014.6953879>
- Karamanakos, P., Geyer, T., & Kennel, R. (2014). Reformulation of the long-horizon direct model predictive control problem to reduce the computational effort. In *2014 IEEE Energy Conversion Congress and Exposition, ECCE 2014* (pp. 3512-3519). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ECCE.2014.6953878>
- Karamanakos, P., Stolze, P., Kennel, R. M., Manias, S., & Du Toit Mouton, H. (2014). Variable Switching Point Predictive Torque Control of Induction Machines. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, *2*(2), 285-295. <https://doi.org/10.1109/JESTPE.2013.2296794>
- Raghuwanshi, S., Deswal, D., Karp, M., & Kuhad, R. C. (2014). Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose. *Fuel*, *124*, 183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>
- 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>
- Rasilo, P., Lemesle, M. A., Belahcen, A., Arkkio, A., & Hinkkanen, M. (2014). Comparison of finite-element-based state-space models for PM synchronous machines. *IEEE Transactions on Energy Conversion*, *29*(2), 535-543. <https://doi.org/10.1109/TEC.2014.2307472>
- Qvintus, P., Kataja, K., Heikkilä, P., Salmela, J., Lehmonen, J., Ketoja, 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* (pp. 67-74). Appita Inc..
- Oksa, M., Auerkari, P., Salonen, J., & Varis, T. (2014). Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers. *Fuel Processing Technology*, *125*, 236-245. <https://doi.org/10.1016/j.fuproc.2014.04.006>
- Karamanakos, P., Geyer, T., & Manias, S. (2013). Direct model predictive current control strategy of DC-DC boost converters. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, *1*(4), 337-346. <https://doi.org/10.1109/JESTPE.2013.2279855>
- 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, J. J., Larjo, A., Aho, T., Yli-Harja, O., Karp, M. T., & 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>
- Karamanakos, P., Geyer, T., & Manias, S. (2013). Model predictive control of the interleaved DC-DC boost converter with coupled inductors. In *2013 15th European Conference on Power Electronics and Applications, EPE 2013* [6632006] <https://doi.org/10.1109/EPE.2013.6632006>
- Stolze, P., Karamanakos, P., Kennel, R., Manias, S., & Mouton, T. (2013). Variable switching point predictive torque control for the three-level neutral point clamped inverter. In *2013 15th European Conference on Power Electronics and Applications, EPE 2013* [6631894] <https://doi.org/10.1109/EPE.2013.6631894>
- Lobera, D. T., & Valkealahti, S. (2013). Mismatch losses in PV power generators caused by partial shading due to clouds. In *2013 4th IEEE International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2013 - Conference Proceedings* [6785587] IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/PEDG.2013.6785587>

Kieferndorf, F., Karamanakos, P., Bader, P., Oikonomou, N., & Geyer, T. (2012). Model predictive control of the internal voltages of a five-level active neutral point clamped converter. In *2012 IEEE Energy Conversion Congress and Exposition, ECCE 2012* (pp. 1676-1683) <https://doi.org/10.1109/ECCE.2012.6342611>

Oikonomou, N., Gutscher, C., Karamanakos, P., Kieferndorf, F., & Geyer, T. (2012). Model predictive pulse pattern control for the five-level active neutral point clamped inverter. In *2012 IEEE Energy Conversion Congress and Exposition, ECCE 2012* (pp. 129-136) <https://doi.org/10.1109/ECCE.2012.6342832>

Kousoulidou, M., Ntziachristos, L., Fontaras, G., Martini, G., Dilara, P., & Samaras, Z. (2012). Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies. *Fuel*, *98*, 88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>

Pakarinen, O. M., Kaparaju, P. L. N., & Rintala, J. A. (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., Lantelä, 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>

Aree, P., & Acha, E. (2011). Power flow initialisation of dynamic studies with induction motor loads. *IET Generation Transmission and Distribution*, *5*(4), 417-424. <https://doi.org/10.1049/iet-gtd.2010.0442>

Puranen, J., Hyvärinen, L., Lagerbom, J., Kymälähti, 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>

Rasilo, P., & Arkkio, A. (2010). Modeling the effect of inverter supply on eddy-current losses in synchronous machines. In *SPEEDAM 2010 - International Symposium on Power Electronics, Electrical Drives, Automation and Motion* (pp. 861-865) <https://doi.org/10.1109/SPEEDAM.2010.5544811>

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>

Suntio, T. (2003). Input Invariance as a Method to Reduce EMI Filter Interactions in Telecom DPS Systems. *INTELEC, International Telecommunications Energy Conference (Proceedings)*, 592-597.

Waltari, P., Suntio, T., Tenno, A., & Tenno, R. (2002). The effects of intermittent charging on VRLA battery life expectancy in telecom applications. *INTELEC, International Telecommunications Energy Conference (Proceedings)*, 121-127.

Suntio, T., & Gadoura, I. (2002). Use of unterminated two-port modeling technique in analysis of input filter interactions in telecom DPS systems. *INTELEC, International Telecommunications Energy Conference (Proceedings)*, 560-565.

Suntio, T., Uusitalo, J., & Jonsson, L. (1989). AC-UPS reliability and availability performance: Comparison of available solutions. *INTELEC, International Telecommunications Energy Conference (Proceedings)*. <https://doi.org/10.1109/INTLEC.1989.88298>

Valkealahti, S., & Welch, D. O. (1989). Theoretical studies of structural properties of the high- $T_c$  superconductor  $Y_{1-x}Ba_2Cu_3O_{7-x}$ . *Physica C: Superconductivity and its Applications*, *162-164*(PART 1), 540-541. [https://doi.org/10.1016/0921-4534\(89\)91145-3](https://doi.org/10.1016/0921-4534(89)91145-3)

