

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

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

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

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

Laasasenaho K, Lensu A, Lauhanen R, Rintala J. **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. 2019 Apr 1;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 et al. **Impedance-based interactions in grid-tied three-phase inverters in renewable energy applications**. Energies. 2019 Jan 31;12(3). 464. <https://doi.org/10.3390/en12030464>

Amer E, Kuperman A, Suntio T. **Direct fixed-step maximum power point tracking algorithms with adaptive perturbation frequency**. Energies. 2019 Jan 27;12(3). 399. <https://doi.org/10.3390/en12030399>

Gonçalves LPL, Wang J, Vinati S, Barborini E, Wei XK, Heggen M et al. **Combined experimental and theoretical study of acetylene semi-hydrogenation over Pd/Al<sub>2</sub>O<sub>3</sub>**. International Journal of Hydrogen Energy. 2019. <https://doi.org/10.1016/j.ijhydene.2019.04.086>

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

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

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

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

Heijne AT, Liu D, Sulonen M, Sleutels T, Fabregat-Santiago F. **Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy**. Journal of Power Sources. 2018 Oct 1;400:533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>

Repo S, Pylvänäinen J, Kauppinen M, Repo S, Jarventausta P. **Automatic Meter Infrastructure (AMI) as a part of flexibility market.** In 15th International Conference on the European Energy Market, EEM 2018. Vol. 2018-June. IEEE COMPUTER SOCIETY PRESS. 2018. 8469765. (International Conference on the European Energy Market). <https://doi.org/10.1109/EEM.2018.8469765>

Valta J, Makinen S, Kotilainen K, Rautiainen A, Järventausta P. **Comparison of innovation policies for electric vehicle business ecosystems.** In 15th International Conference on the European Energy Market, EEM 2018. Vol. 2018-June. IEEE COMPUTER SOCIETY PRESS. 2018. 8469785. (International Conference on the European Energy Market). <https://doi.org/10.1109/EEM.2018.8469785>

Haakana J, Haapaniemi J, Lassila J, Partanen J, Niska H, Rautiainen A. **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. IEEE COMPUTER SOCIETY PRESS. 2018. 8469937. (International Conference on the European Energy Market). <https://doi.org/10.1109/EEM.2018.8469937>

Lummi K, Rautiainen A, Peltonen L, Repo S, Järventausta P, Rintala J. **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. IEEE COMPUTER SOCIETY PRESS. 2018. 8469965. (International Conference on the European Energy Market). <https://doi.org/10.1109/EEM.2018.8469965>

Mashlakov A, Tikka V, Honkapuro S, Partanen J, Repo S, Järventausta P et al. **Use case description of real-time control of microgrid flexibility.** In 15th International Conference on the European Energy Market, EEM 2018. Vol. 2018-June. IEEE COMPUTER SOCIETY PRESS. 2018. 8469218. (International Conference on the European Energy Market). <https://doi.org/10.1109/EEM.2018.8469218>

Lummi K, Rautiainen A, Jarventausta P, Heine P, Lehtinen J, Hyvarinen M et al. **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. 2018. p. 581-586 <https://doi.org/10.1109/ISGT-Asia.2018.8467793>

Ortombina L, Liegmann E, Karamanakos P, Tinazzi F, Zigliotto M, Kennel R. **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. IEEE. 2018. 8460173 <https://doi.org/10.1109/COMPEL.2018.8460173>

Angioni A, Lu S, Hooshyar H, Cairo I, Repo S, Ponci F et al. **A distributed automation architecture for distribution networks, from design to implementation.** Sustainable Energy, Grids and Networks. 2018 Sep;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 et al. **Lessons learnt from real-time monitoring of the low voltage distribution network.** Sustainable Energy, Grids and Networks. 2018 Sep;15:76-85. <https://doi.org/10.1016/j.segan.2017.05.002>

Castro LM, Acha E, Rodriguez-Rodriguez JR. **Efficient method for the real-time contingency analysis of meshed HVDC power grids fed by VSC stations.** IET Generation, Transmission and Distribution. 2018 Jul 31;12(13):3158-3166. <https://doi.org/10.1049/iet-gtd.2017.1104>

Zhao J, Prioli M, Stenvall A, Salmi T, Gao Y, Caiiffi B et al. **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. 2018 Jul 15;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 et al. **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. IEEE. 2018. p. 1-6 <https://doi.org/10.1109/ENERGYCON.2018.8398794>

Sitbon M, Lineykin S, Schacham S, Suntio T, Kuperman A. **Online dynamic conductance estimation based maximum power point tracking of photovoltaic generators**. Energy Conversion and Management. 2018 Jun 15;166:687-696. <https://doi.org/10.1016/j.enconman.2018.04.053>

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

Dessi P, Porca E, Frunzo L, Lakaniemi A-M, Collins G, Esposito G et al. **Inoculum pretreatment differentially affects the active microbial community performing mesophilic and thermophilic dark fermentation of xylose**. International Journal of Hydrogen Energy. 2018 May 10;43(19):9233-9245. <https://doi.org/10.1016/j.ijhydene.2018.03.117>

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

Castro LM, Acha E. **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. 2018;154:48-58. <https://doi.org/10.1016/j.epsr.2017.08.011>

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

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

Dessi P, Porca E, Waters NR, Lakaniemi A-M, Collins G, Lens PNL. **Thermophilic versus mesophilic dark fermentation in xylose-fed fluidised bed reactors: Biohydrogen production and active microbial community**. International Journal of Hydrogen Energy. 2018;43(11):5473-5485. <https://doi.org/10.1016/j.ijhydene.2018.01.158>

Haavisto JM, Kokko ME, Lay C-H, Puhakka JA. **Effect of hydraulic retention time on continuous electricity production from xylose in up-flow microbial fuel cell**. International Journal of Hydrogen Energy. 2017 Nov 1;42:27494-27502. <https://doi.org/10.1016/j.ijhydene.2017.05.068>

Tuominen V, Reponen H, Kulmala A, Lu S, Repo S. **Real-time hardware- and software-in-the-loop simulation of decentralised distribution network control architecture**. IET Generation, Transmission and Distribution. 2017 Aug 24;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 et al. **Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels**. Fuel. 2017 Aug 15;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. **Electropolymerized polyazulene as active material in flexible supercapacitors**. Journal of Power Sources. 2017 Jul 15;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. **Aspects of advancement of distribution tariffs for small consumers in Finland**. In 2017 14th International Conference on the European Energy Market, EEM 2017. IEEE. 2017 <https://doi.org/10.1109/EEM.2017.7981937>

Rautiainen A, Koskela J, Vilppo O, Supponen A, Kojo M, Toivanen P et al. **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. 2017 <https://doi.org/10.1109/EEM.2017.7981925>

Honkapuro S, Haapaniemi J, Haakana J, Lassila J, Belonogova N, Partanen J et al. **Development options for distribution tariff structures in Finland.** In 2017 14th International Conference on the European Energy Market, EEM 2017. IEEE. 2017 <https://doi.org/10.1109/EEM.2017.7981930>

Kotilainen K, Valta J, Mäkinen SJ, Järventausta P. **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. 2017 <https://doi.org/10.1109/EEM.2017.7981932>

Kramb J, Gómez-Barea A, DeMartini N, Romar H, Doddapaneni TRKC, Konttinen J. **The effects of calcium and potassium on CO<sub>2</sub> gasification of birch wood in a fluidized bed.** Fuel. 2017 May 15;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 et al. **The IDE4L Project: Defining, Designing, and Demonstrating the Ideal Grid for All.** IEEE POWER AND ENERGY MAGAZINE. 2017 May 1;15(3):41-51. <https://doi.org/10.1109/MPE.2017.2662329>

Kivimäki J, Sitbon M, Kolesnik S, Kuperman A, Suntio T. **Determining maximum MPP-tracking sampling frequency for input-voltage-controlled PV-interfacing converter.** In 8th Annual IEEE Energy Conversion Congress & Exposition (ECCE 2016). IEEE. 2017 <https://doi.org/10.1109/ECCE.2016.7855036>

Matikainen V, Rubio S, Ojala N, Koivuluoto H, Schubert J, Houdková S et al. **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. Association for Iron and Steel Technology, AISTECH. 2017. p. 1161-1163

Ntziachristos L, Saukko E, Lehtoranta K, Rönkkö T, Timonen H, Simonen P et al. **Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions.** Fuel. 2016 Dec 15;186:456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>

Castro LM, Acha E. **A Unified Modeling Approach of Multi-Terminal VSC-HVDC Links for Dynamic Simulations of Large-Scale Power Systems.** IEEE Transactions on Power Systems. 2016 Nov 1;31(6):5051-5060. <https://doi.org/10.1109/TPWRS.2016.2527498>

Kramb J, Konttinen J, Backman R, Salo K, Roberts M. **Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood.** Fuel. 2016 Oct 1;181:319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>

Acha E, Rubbrecht T, Castro LM. **Power flow solutions of AC/DC micro-grid structures.** In 19th Power Systems Computation Conference, PSCC 2016. IEEE. 2016 <https://doi.org/10.1109/PSCC.2016.7540815>

Kolesnik S, Sitbon M, Agranovich G, Kuperman A, Suntio T. **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. 2016 <https://doi.org/10.1109/IEPS.2016.7521859>

Lummi K, Rautiainen A, Järventausta P, Heine P, Lehtinen J, Hyvärinen M. **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. 2016 <https://doi.org/10.1109/EEM.2016.7521251>

Supponen A, Rautiainen A, Lummi K, Järventausta P, Repo S. **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. 2016 <https://doi.org/10.1109/EEM.2016.7521237>

Kotilainen K, Mäkinen SJ, Järventausta P, Rautiainen A, Markkula J. **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. 2016 <https://doi.org/10.1109/EEM.2016.7521325>

Acha E, Castro LM. **A generalized frame of reference for the incorporation of, multi-terminal VSC-HVDC systems in power flow solutions.** Electric Power Systems Research. 2016 Jul 1;136:415-424. <https://doi.org/10.1016/j.epsr.2016.03.009>

Kramb J, DeMartini N, Perander M, Moilanen A, Konttinen J. **Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO<sub>2</sub>.** Fuel Processing Technology. 2016 Jul 1;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 et al. **The formation and physical properties of the particle emissions from a natural gas engine.** Fuel. 2015 Dec 15;162:155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>

Karamanakos P, Geyer T, Kennel R. **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. Institute of Electrical and Electronics Engineers Inc. 2015. p. 334-341 <https://doi.org/10.1109/ECCE.2015.7309707>

Bajamundi CJE, Vainikka P, Hedman M, Silvennoinen J, Heinanen T, Taipale R et al. **Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel.** Fuel. 2015 Sep 1;155:25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

Hakala T, Lähdeaho T, Järventausta P. **Low-Voltage DC Distribution-Utilization Potential in a Large Distribution Network Company.** IEEE Transactions on Power Delivery. 2015 Aug 1;30(4):1694-1701. <https://doi.org/10.1109/TPWRD.2015.2398199>

Sitbon M, Schacham S, Suntio T, Kuperman A. **Improved adaptive input voltage control of a solar array interfacing current mode controlled boost power stage.** Energy Conversion and Management. 2015 Jul 1;98:369-375. <https://doi.org/10.1016/j.enconman.2015.03.100>

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

Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J et al. **Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char.** Fuel. 2015 Jun 15;150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

Rasilo P, Salem A, Abdalh A, De Belie F, Dupré L, Melkebeek JA. **Effect of Multilevel Inverter Supply on Core Losses in Magnetic Materials and Electrical Machines.** IEEE Transactions on Energy Conversion. 2015 Jun 1;30(2):736-744. 6980114. <https://doi.org/10.1109/TEC.2014.2372095>

Castro LM, Acha E, Fuerte-Esquivel CR. **A novel VSC-HVDC link model for dynamic power system simulations.** Electric Power Systems Research. 2015 May 30;126:111-120. <https://doi.org/10.1016/j.epsr.2015.05.003>

Liu Z, Wu Q, Christensen L, Rautiainen A, Xue Y. **Driving pattern analysis of Nordic region based on National Travel Surveys for electric vehicle integration.** Journal of Modern Power Systems and Clean Energy. 2015 Jan 1;3(2):180-189. <https://doi.org/10.1007/s40565-015-0127-x>

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

Geyer T, Karamanakos P, Kennel R. **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. Institute of Electrical and Electronics Engineers Inc. 2014. p. 3520-3527 <https://doi.org/10.1109/ECCE.2014.6953879>

Karamanakos P, Geyer T, Kennel R. **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. Institute of Electrical and Electronics Engineers Inc. 2014. p. 3512-3519 <https://doi.org/10.1109/ECCE.2014.6953878>

Karamanakos P, Stolze P, Kennel RM, Manias S, Du Toit Mouton H. **Variable Switching Point Predictive Torque Control of Induction Machines.** IEEE Journal of Emerging and Selected Topics in Power Electronics. 2014 Jun;2(2):285-295. <https://doi.org/10.1109/JESTPE.2013.2296794>

Raghuwanshi S, Deswal D, Karp M, Kuhad RC. **Bioprocessing of enhanced cellulase production from a mutant of Trichoderma asperellum RCK2011 and its application in hydrolysis of cellulose.** Fuel. 2014 May 15;124:183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>

Ciranna A, Ferrari R, Santala V, Karp M. **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 Apr 15;39(12):6391-6401. <https://doi.org/10.1016/j.ijhydene.2014.02.047>

Rasilo P, Lemesle MA, Belahcen A, Arkkio A, Hinkkanen M. **Comparison of finite-element-based state-space models for PM synchronous machines.** IEEE Transactions on Energy Conversion. 2014;29(2):535-543. <https://doi.org/10.1109/TEC.2014.2307472>

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

Oksa M, Auerkari P, Salonen J, Varis T. **Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers.** Fuel Processing Technology. 2014;125:236-245. <https://doi.org/10.1016/j.fuproc.2014.04.006>

Karamanakos P, Geyer T, Manias S. **Direct model predictive current control strategy of DC-DC boost converters.** IEEE Journal of Emerging and Selected Topics in Power Electronics. 2013 Dec 1;1(4):337-346. <https://doi.org/10.1109/JESTPE.2013.2279855>

Kivistö A, Santala V, Karp M. **Non-sterile process for biohydrogen and 1,3-propanediol production from raw glycerol.** International Journal of Hydrogen Energy. 2013 Sep 10;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. **Prospecting hydrogen production of Escherichia coli by metabolic network modeling.** International Journal of Hydrogen Energy. 2013 Sep 10;38(27):11780-11789. <https://doi.org/10.1016/j.ijhydene.2013.07.002>

Karamanakos P, Geyer T, Manias S. **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. 2013. 6632006 <https://doi.org/10.1109/EPE.2013.6632006>

Stolze P, Karamanakos P, Kennel R, Manias S, Mouton T. **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. 2013. 6631894 <https://doi.org/10.1109/EPE.2013.6631894>

Lobera DT, Valkealahti S. **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. IEEE COMPUTER SOCIETY PRESS. 2013. 6785587 <https://doi.org/10.1109/PEDG.2013.6785587>

Kieferndorf F, Karamanakos P, Bader P, Oikonomou N, Geyer T. **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. 2012. p. 1676-1683 <https://doi.org/10.1109/ECCE.2012.6342611>

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

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

Pakarinen OM, Kaparaju PLN, Rintala JA. **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. 2011 Nov;36(22):14401-14407. <https://doi.org/10.1016/j.ijhydene.2011.08.028>

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

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

Puranen J, Hyvärinen L, Lagerbom J, Kylmälahti M, Koivuluoto H, Vuoristo P. **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. 2011. p. 237-244 <https://doi.org/10.1115/FuelCell2011-54750>

Rasilo P, Arkkio A. **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. 2010. p. 861-865 <https://doi.org/10.1109/SPEEDAM.2010.5544811>

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

Suntio T. **Input Invariance as a Method to Reduce EMI Filter Interactions in Telecom DPS Systems**. INTELEC, International Telecommunications Energy Conference (Proceedings). 2003 Dec 1;592-597.

Waltari P, Suntio T, Tenno A, Tenno R. **The effects of intermittent charging on VRLA battery life expectancy in telecom applications**. INTELEC, International Telecommunications Energy Conference (Proceedings). 2002 Dec 1;121-127.

Suntio T, Gadoura I. **Use of unterminated two-port modeling technique in analysis of input filter interactions in telecom DPS systems**. INTELEC, International Telecommunications Energy Conference (Proceedings). 2002 Dec 1;560-565.

Suntio T, Uusitalo J, Jonsson L. **AC-UPS reliability and availability performance: Comparison of available solutions**. INTELEC, International Telecommunications Energy Conference (Proceedings). 1989 Dec 1. <https://doi.org/10.1109/INTLEC.1989.88298>

Valkealahti S, Welch DO. **Theoretical studies of structural properties of the high- $T_c$  superconductor  $Y_{1-x}Ba_xCu_3O_{7-x}$** . Physica C: Superconductivity and its Applications. 1989 Jan 1;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)