

### **Impact of Different Concrete Types on Radio Propagation: Fundamentals and Practical RF Measurements**

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### **Artificial intelligence yesterday, today and tomorrow**

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### **GIS-data related route optimization, hierarchical clustering, location optimization, and kernel density methods are useful for promoting distributed bioenergy plant planning in rural areas**

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### **Impedance-based interactions in grid-tied three-phase inverters in renewable energy applications**

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### **Comparison of innovation policies for electric vehicle business ecosystems**

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### **Alternative Power-Based Pricing Schemes for Distribution Network Tariff of Small Customers**

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#### **Efficient method for the real-time contingency analysis of meshed HVDC power grids fed by VSC stations**

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#### **Inoculum pretreatment differentially affects the active microbial community performing mesophilic and thermophilic dark fermentation of xylose**

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**Thermophilic versus mesophilic dark fermentation in xylose-fed fluidised bed reactors: Biohydrogen production and active microbial community**

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**Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels**

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**The effects of calcium and potassium on CO<sub>2</sub> gasification of birch wood in a fluidized bed**

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### **The IDE4L Project: Defining, Designing, and Demonstrating the Ideal Grid for All**

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### **A Unified Modeling Approach of Multi-Terminal VSC-HVDC Links for Dynamic Simulations of Large-Scale Power Systems**

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### **Driving pattern analysis of Nordic region based on National Travel Surveys for electric vehicle integration**

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Translated title of the contribution: : Investigation of cycle-to-cycle variability of NO in homogeneous combustion

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### **Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose**

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Research output: Contribution to journal › Article › Scientific › peer-review

### **Comparison of finite-element-based state-space models for PM synchronous machines**

Rasilo, P., Lemesle, M. A., Belahcen, A., Arkkio, A. & Hinkkanen, M., 2014, In : *IEEE Transactions on Energy Conversion*. 29, 2, p. 535-543 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Design driven world of cellulose-from bulk to luxury?**

Qvintus, P., Kataja, K., Heikkilä, P., Salmela, J., Lehmonen, J., Ketoja, J., Hänninen, T., Harlin, A., Härkäsalmi, T., Vuorinen, J. & Vuorinen, T., 2014, *Fibre Value Chain Conference and Expo 2014: Pulp and Paper Bioenergy Bioproducts*. Appita Inc., p. 67-74 8 p.

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### **Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers**

Oksa, M., Auerkari, P., Salonen, J. & Varis, T., 2014, In : *Fuel Processing Technology*. 125, p. 236-245 10 p.

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### **Direct model predictive current control strategy of DC-DC boost converters**

Karamanakos, P., Geyer, T. & Manias, S., 1 Dec 2013, In : *IEEE Journal of Emerging and Selected Topics in Power Electronics*. 1, 4, p. 337-346 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Non-sterile process for biohydrogen and 1,3-propanediol production from raw glycerol**

Kivistö, A., Santala, V. & Karp, M., 10 Sep 2013, In : International Journal of Hydrogen Energy. 38, 27, p. 11749-11755 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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**Variable switching point predictive torque control for the three-level neutral point clamped inverter**

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**Model predictive control of the internal voltages of a five-level active neutral point clamped converter**

Kieferndorf, F., Karamanakos, P., Bader, P., Oikonomou, N. & Geyer, T., Sep 2012, *2012 IEEE Energy Conversion Congress and Exposition, ECCE 2012*. p. 1676-1683 8 p.

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**Model predictive pulse pattern control for the five-level active neutral point clamped inverter**

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**Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies**

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**Hydrogen and methane yields of untreated, water-extracted and acid (HCl) treated maize in one- and two-stage batch assays**

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**Trace compounds affecting biogas energy utilisation - A review**

Rasi, S., Lantelä, J. & Rintala, J., Nov 2011, In : Energy Conversion and Management. 52, 12, p. 3369-3375 7 p.

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**Power flow initialisation of dynamic studies with induction motor loads**

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