

## **Address from the General Chairman**

**Zakis, Janis** 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 3

## **Analysis of buck mode realization possibilities in quasi-Z-source DC-DC converters with voltage doubler rectifier**

**Zakis, Janis; Rankis, Ivars; Liivik, Liisa; Chub, Andrii** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 570-575 : ill  
<http://dx.doi.org/10.1109/PowerEng.2015.7266379>

## **Analysis of operating modes of the novel isolated interface converter for PMSG based wind turbines**

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## **Analysis of operating modes of the step-up DC/DC converter with a commutating LC-filter**

**Zakis, Janis; Rankis, Ivars; Vinnikov, Dmitri** Технічна електродинаміка 2011 / p. 87-92 : ill  
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## **Analysis of state-of-the-art converter topologies for interfacing of hydrogen buffer with renewable energy systems**

**Andrijanovičs, Anna; Steiks, Ingars; Zakis, Janis; Vinnikov, Dmitri** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 87-94 : ill <https://ui.adsabs.harvard.edu/abs/2011SJRP...29...87A/abstract>

## **Analysis of switching conditions of IGBTs in modified sine wave qZSIs operated with different shoot-through control methods**

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## **Asymmetrical PWM control of galvanically isolated impedance-source series resonant DC-DC converters**

**Vinnikov, Dmitri; Zakis, Janis; Chub, Andrii; Liivik, Elizaveta** 2016 10th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings : Opera Nova's Congress Center, Bydgoszcz, Poland, 29. June - 01. July, 2016 2016 / p. 341-346 : ill <https://doi.org/10.1109/CPE.2016.7544211>

## **Bidirectional operation of the single-phase neutral-point-clamped quasi-Z-source inverter**

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## **Closed-loop control system design for wireless charging of low-voltage EV batteries with time-delay constraints**

Shevchenko, Viktor; Pakhaliuk, Bohdan; Zakis, Janis; Veligorskyi, Oleksandr; Luszcz, Jaroslaw; **Husev, Oleksandr**; Lytvyn, Oksana; **Matiushkin, Oleksandr** Energies 2021 / art. 3934, 21 p. : ill <https://doi.org/10.3390/en14133934> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Comparative analysis of boost and quasi-Z-source converters as maximum power point trackers for PV panel integrated converters**

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## **Comparative analysis of high power density bidirectional DC-DC converters for portable energy storage applications**

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## **Comparative analysis of qZS-based bidirectional DC-DC converter for storage energy application**

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## **Comparison of performance of phase-shift and asymmetrical pulse width modulation techniques for the novel galvanically isolated buck-boost dc-dc converter for photovoltaic applications**

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## **Converter state-space model estimation using dynamic mode decomposition**

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**Current sensorless control algorithm for single-phase three-level NPC inverter**

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**Design guidelines of new step-up DC/DC converter for fuel cell powered distributed generation systems**

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**Dynamic behaviour of qZS-based bi-directional DC/DC converter in supercapacitor charging mode [Electronic resource]**

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**Effect of double-slope modulation signals on conducted emissions and efficiency of strongly coupled magnetic resonance WPT systems**

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**Fault-tolerant control of a grid-connected bipolar DC microgrid with high penetration of intermittent renewable energy**

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**Multiphase interleaved DC-DC converter with directly and inversely coupled inductors [Online resource]**

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**Multivariable optimal control of wireless power transfer systems with series-parallel compensation**

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**Operation possibility of grid connected quasi-Z-source inverter with energy storage and renewable energy generation in wide power range**

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**Optimal supercapacitor energy storage system sizing for traction substations**

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**An Overview of bidirectional AC-DC grid connected converter topologies for low voltage battery integration**

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### **An overview of fuzzy logic approaches for fault diagnosis in energy conversion devices**

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**Makovenko, Elena; Husev, Oleksandr; Zakis, Janis; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Vinnikov, Dmitri** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 2017 / p. 516-521 : ill <https://doi.org/10.1109/CPE.2017.7915225>

### **Performance comparison of boost and quasi-Z-source converters**

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