

Active power electronic transformer as a power conditioner for nonlinear loads [Electronic resource]

Roasto, Indrek; Romero-Cadaval, Enrique; Martins, Joao; **Jalakas, Tanel** CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 63-68 : ill [CD-ROM]

Active power electronic transformer based on modular building blocks

Roasto, Indrek; Romero-Cadaval, Enrique; Martins, Joao Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5922-5927 : ill <https://doi.org/10.1109/IECON.2013.6700106> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

A battery cell balancing method with linear mode bypass current control

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Battery technologies in electric vehicles : improvements in electric battery packs

Mohseni, Parham; Husev, Oleksandr; **Vinnikov, Dmitri;** Strzelecki, Ryszard; Romero-Cadaval, Enrique; Tokarski, Igor IEEE industrial electronics magazine 2023 / p. 55-65 <https://doi.org/10.1109/MIE.2023.3252265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Buck-boost unfold inverter as a novel solution for single-phase PV systems

Husev, Oleksandr; Matiushkin, Oleksandr; **Vinnikov, Dmitri;** Roncero, Carlos; Romero-Cadaval, Enrique; **Kütt, Lauri** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6116-6121 : ill <https://doi.org/10.1109/IECON.2018.8592899>

Carrier based modulation with capacitor balancing for three-level neutral-point-clamped qZS inverter

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An economical optimization for the participation of a residential microgrid in flexibility markets providing ancillary services

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Hybrid FEA-Simulink modelling of permanent magnet assisted synchronous reluctance motor with unbalanced magnet flux

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Isolated high-frequency link PFC rectifier with high step-down factor and reduced energy circulation

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Novel Interlinking Converter Approach for Islanded Hybrid Microgrids based on the Modular Dual-Purpose Power Converter

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Output filter design for grid connected single phase three-level quasi-Z-source inverter [Electronic resource]

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Overview of advanced functionalities for residential photovoltaic inverter connected to the grid

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An overview of the functions of smart grids associated with virtual power plants including cybersecurity measures

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Performance evaluation of a three-phase PV power plant under unbalanced conditions with islanding detection reliability test

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Power Electronic Systems for Efficient and Sustainable Energy Supply

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PV-battery assisted three-level T-Type inverter for AC residential nanogrid realized with small-scale HIL units

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PWM for single phase 3L Z/qZ-Source inverter with balanced power losses

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