

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
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Buck-boost unfolder inverter as a novel solution for single-phase PV systems
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Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 57-62 : ill <http://dx.doi.org/10.1109/CPE.2015.7231049>

Carrier level-shifted based control method for the PWM 3L-T-Type qZS inverter with capacitor imbalance compensation
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Dead-beat-based model predictive current control for the dual-purpose dc-dc/ac PWM modular power converter

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Grid-connected single-phase 3L-T-type qZS inverter for renewable energy

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

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Maximum boost control for interleaved single-phase quasi-Z-source inverter

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Three-level neutral-point-clamped quasi-Z-source inverter with maximum power point tracking for photovoltaic systems

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New hysteresis current control for grid connected single-phase three-level quasi-Z-source inverter

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New operation strategy for a grid-connected three-phase three-level NPC qZS inverter based on power losses

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

Gutiérrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; Milanés-Montero, María Isabel; Romero-Cadaval, Enrique 2025 International Aegean Conference on Electrical Machines and Power Electronics & International Conference on Optimization of Electrical and Electronic Equipment 2025

Novel space vector pulse width modulation strategies for single-phase three-level NPC impedance-source inverters

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

Husev, Oleksandr; **Stepenko, Serhii**; Roncero-Clemente, Carlos; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 46-51 : ill [CD-ROM]

Output voltage control system for a three-level neutral-point clamped quasi-Z-source inverter

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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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Passive power decoupling approach for three-level single-phase impedance source inverter based on resonant and PID controllers

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

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Power converter interfaces for electrochemical energy storage systems - a review

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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

Gutierrez-Escalona, Javier; **Roncero-Clemente, Carlos;** Gonzalez-Romera, Eva; Milanes-Montero, Maria Isabel; Husev, Oleksandr; Romero-Cadaval, Enrique IEEE Access 2023 / p. 48007 - 48021 [https://doi.org/10.1109/ACCESS.2023.3276235 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](https://doi.org/10.1109/ACCESS.2023.3276235)

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

Roncero-Clemente, Carlos; **Husev, Oleksandr; Jalakas, Tanel;** Romero-Cadaval, Enrique; **Zakis, Janis;** Minambres-Marcos, Victor Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 71-76 : ill [https://doi.org/10.5755/j01.eee.20.6.7270 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](https://doi.org/10.5755/j01.eee.20.6.7270)

Quasi-Z source T-type power converter for PV based commercial and industrial nanogrids with active functions strategy

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