

Bidirectional twisted single-stage single-phase buck-boost DC-AC converter

Husev, Oleksandr; Matiushkin, Oleksandr; Roncero-Clemente, Carlos; **Vinnikov, Dmitri;** Chopyk, Vasily Energies 2019 / art. 3505, 14 p. : ill <https://doi.org/10.3390/en12183505> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Buck-boost unfolded 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>

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

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Comparative analysis of buck-boost inverters based on unfolding circuit versus H5, H6, HERIC topologies

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

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Comparative evaluation of common-ground converters for dual-purpose application

Hemmati Shahsavari, Tala; Rahimpour, Saeed; Vosoughi Kurdkandi, Naser; Fesenko, Artem; **Matiushkin, Oleksandr; Husev, Oleksandr; Vinnikov, Dmitri** Energies 2023 / art. 2977 <https://doi.org/10.3390/en16072977> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative evaluation of dual-purpose converters suitable for application in dc and ac grids

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Comparison of grid-connected flyback-based microinverter with primary and secondary side decoupling approach

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Comprehensive comparison of isolated high step-up dc-dc converters for low power application

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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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Design and experimental validation of a single-stage PV string inverter with optimal number of interleaved buck-boost cells

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Design of LCL-filter for grid-connected buck-boost inverter based on unfolding circuit

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A three-phase unfolding-based PFC topology with two inductors for electric vehicles battery charging

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