

A dual-input partial-power boost half-bridge DC-DC converter with integrated transformer for efficient battery integration in DC microgrids

Yadav, Neelesh; Chub, Andrii IECON 2025 – 51st Annual Conference of the IEEE Industrial Electronics Society 2025 / 5 p
<https://ieeexplore.ieee.org/document/11221250> <https://doi.org/10.1109/IECON58223.2025.11221250>

High-efficient switched-capacitor step-up DC–DC converter with partial power processing

Toebe, Ademir; Bulegon Löbler, Pedro Henrique; **Dos Santos, Nilton Gabriel Feliciani**; Beltrame, Rafael Concatto; Schuch, Luciano; Rech, Cassiano IECON 2025 – 51st Annual Conference of the IEEE Industrial Electronics Society 2025 / 6 p
<https://doi.org/10.1109/IECON58223.2025.11221931>

High-performance buck-boost partial power quasi-Z-source series resonance converter

Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Mashinchi Maheri, Hamed; Blinov, Andrei; Vinnikov, Dmitri IEEE Access 2022 / p. 13017-130189 <https://doi.org/10.1109/ACCESS.2022.3225751> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A topology morphing partial power converter with variable turns ratio for integration of on-board battery chargers with DC buildings

Martins, Mario Lucio da Silva; Dos Santos, Nilton Gabriel Feliciani; **Chub, Andrii** 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 6 p <https://doi.org/10.1109/ICDCM63994.2025.11144713>