

Application of hysteresis voltage control for three-level neutral point clamped voltage source inverter

Kolmakov, Nikolay; Bakhovtsev, Igor A.; **Jalakas, Tanel** 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 195-198 : ill

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

Husev, Olexsandr; **Matiushkin, Olexsandr**; **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>

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

Matiushkin, Olexsandr; **Husev, Olexsandr**; **Vinnikov, Dmitri**; **Vosoughi Kurdkandi, Naser** 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2022 / p. 547-552
<https://doi.org/10.1109/SPEEDAM53979.2022.9842282>

Current sensorless control for half-bridge based AC/DC PFC converter with consideration of conduction losses

Suzdalenko, Alexander; **Chub, Andrii** International journal of circuit theory and applications 2016 / p. 2072-2084 : ill
<https://doi.org/10.1002/cta.2212> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and comparison of three-level three-phase T-source inverters

Shults, Tatiana; **Husev, Olexsandr**; **Blaabjerg, Frede** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 564-569 : ill
<http://dx.doi.org/10.1109/PowerEng.2015.7266378>

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

Matiushkin, Olexsandr; **Husev, Olexsandr**; **Vinnikov, Dmitri**; **Kütt, Lauri** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818248>

Development of single-loop current sensorless control for bidirectional three-phase PWM rectifier

Suzdalenko, Alexander; **Zakis, Janis**; **Husev, Olexsandr** 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 211-214 : ill

Digital control strategy for interleaved quasi-Z-source inverter with active power decoupling

Stepenko, Serhii; **Husev, Olexsandr**; **Pires Pimentel, Sergio**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Makovenko, Elena** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 3725-3730 : ill

Feasibility study of model predictive control for grid-connected twisted buck-boost inverter

Matiushkin, Olexsandr; **Husev, Olexsandr**; Rodriguez, Jose; Young, Hector; **Roasto, Indrek** IEEE transactions on industrial electronics 2022 / p. 2488-2499 <https://doi.org/10.1109/TIE.2021.3068663> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Grid-connected buck-boost inverter based on unfolding circuit

Matiushkin, Olexsandr; **Husev, Olexsandr**; **Vinnikov, Dmitri**; Gordienko, Vyacheslav 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659824>

Grid-connected solar PV power plants optimization: a review

Zidane, Tekai Eddine Khalil; Aziz, Ali Saleh; **Zahraoui, Younes**; Kotb, Hossam; Aboras, Kareem M.; Kitmo; Jember, Yosef Berhan IEEE Access 2023 / p. 79588-79608 <https://doi.org/10.1109/ACCESS.2023.3299815> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-efficiency 312-kVA three-phase inverter using parallel connection of silicon carbide MOSFET power modules

Colmenares, Juan; Pefitsis, Dimosthenis; **Rabkowski, Jacek** IEEE transactions on industry applications 2015 / p. 4664-4676 : ill
<http://dx.doi.org/10.1109/TIA.2015.2456422>

Improved switched-inductor quasi-switched-boost inverter with low input current ripple

Chub, Andrii; **Liivik, Liisa**; **Zakis, Janis**; **Vinnikov, Dmitri** 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 221-226 : ill

Indirect model predictive control for inverter connected to distorted grid with significant computation delay

Husev, Olexsandr; Pimentel, Sergio Pires; **Vinnikov, Dmitri**; **Kütt, Lauri**; Rodriguez, Jose IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 6483-6488 : ill <https://doi.org/10.1109/IECON.2019.8927279>

Model predictive control for buck-boost inverter based on unfolding circuit

Matiushkin, Olexsandr; **Husev, Olexsandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 431-436 : ill

Novel single-stage buck-boost inverter with unfolding circuit

Matiushkin, Oleksandr; **Husev, Oleksandr**; Strzelecki, Ryszard; Ivanets, Sergey; Fesenko, Artem 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 538-543 : ill <https://doi.org/10.1109/UKRCON.2017.8100298>

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

Alvi, Anas Abdullah; Romero-Cadaval, Enrique; González-Romera, Eva; Hassan, Jamil; **Vinnikov, Dmitri** Technological innovation for connected cyber physical spaces : 14th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2023, Caparica, Portugal, July 5-7, 2023 : proceedings 2023 / p. 95 - 107 https://doi.org/10.1007/978-3-031-36007-7_7 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

Alvi, Anas Abdullah; Romero-Cadaval, Enrique; Gonzalez-Romera, Eva; Vinnikov, Dmitri; Hassan, Jamil 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227391>

QZSI DC/DC converters in input-series output-parallel connection for distributed generation [Electronic resource]

Martinez, C.; **Jalakas, Tanel**; **Vinnikov, Dmitri**; Lazaro, A.; Barrado, A. SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 952-957 : ill [CD-ROM] <https://ieeexplore.ieee.org/document/6264536>

Small signal model of the buck-boost bidirectional DC-AC converter based on unfolding circuit

Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p <https://doi.org/10.1109/RTUCON48111.2019.8982329>

Voltage distortion approach for output filter design for off-grid and grid-connected PWM inverters

Husev, Oleksandr; **Chub, Andrii**; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; **Vinnikov, Dmitri** Journal of power electronics 2015 / p. 278-287 : ill <https://doi.org/10.6113/JPE.2015.15.1.278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)