

### **Back-to-back energy router based on common-ground inverters**

Azizi, Mohammadreza; **Rahimpour, Saeed; Husev, Oleksandr; Veligorskyi, Oleksandr** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / p. 1-6 <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227480>

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

Shevchenko, Viktor; Pakhaliuk, Bohdan; Zakis, Janis; Veligorskyi, Oleksandr; Luszcz, Jaroslaw; **Husev, Oleksandr**; Lytvyn, Oksana; **Matiushkin, Oleksandr** Energies 2021 / art. 3934, 21 p. : ill <https://doi.org/10.3390/en14133934> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Matiushkin, Oleksandr; **Husev, Oleksandr**; Tytelmaier, Kostiantyn; Kroics, Kaspars; Veligorskyi, Oleksandr; Zakis, Janis Technological Innovation for Smart Systems : 8th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2017, Costa de Caparica, Portugal, May 3–5, 2017 : proceedings 2017 / p. 409-418 [http://dx.doi.org/10.1007/978-3-319-56077-9\\_40](http://dx.doi.org/10.1007/978-3-319-56077-9_40)

### **Comparative evaluation of isolated dc-dc converters for low power applications**

**Azizi, Mohammadreza; Husev, Oleksandr; Vinnikov, Dmitri**; Veligorskyi, Oleksandr 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 7-12 <https://doi.org/10.1109/PEMC51159.2022.9962944>

### **Controller design for interleaved bidirectional dc-dc converter with coupled inductors**

Tytelmaier, Kostiantyn; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Khomenko, Maksym; Khomenko, Oleh 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 570-573 : ill <https://doi.org/10.1109/UKRCON.2017.8100306>

### **Dc leakage current in isolated grid-connected dc nanogrid - origins and elimination methods**

Azizi, Mohammadreza; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Turzvnski, Marek; Strzelecki, Ryszard 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604426>

### **Feasibility study GaN transistors application in the novel split-coils inductive power transfer system with T-Type inverter**

Shevchenko, Viktor; Pakhaliuk, Bohdan; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Stepins, Deniss; Strzelecki, Ryszard Energies 2020 / art. 4535, 16 p. : ill <https://doi.org/10.3390/en13174535> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Feasibility study GaN transistors application in the novel split-coils inductive power transfer system with T-type inverter**

Shevchenko, Viktor; Pakhaliuk, Bohdan; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Stepins, Deniss; Strzelecki, Ryszard Industrial and Technological Applications of Power Electronics Systems 2021 / p. 315-330 <https://doi.org/10.3390/en13174535>

### **Full soft-switching bidirectional isolated current-fed dual inductor push-pull DC-DC converter for battery energy storage applications [Online resource]**

**Kosenko, Roman; Zakis, Janis; Blinov, Andrei; Chub, Andrii**; Veligorskyi, Oleksandr 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [8] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763138>

### **Grounding and isolation requirements in DC microgrids: overview and critical analysis**

Azizi, Mohammadreza; **Husev, Oleksandr**; Veligorskyi, Oleksandr; **Rahimpour, Saeed; Roncero-Clemente, Carlos** Energies 2023 / art. 7747, 23 p. : ill <https://doi.org/10.3390/en16237747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Model predictive control of photovoltaic bidirectional dc-dc converter with coupled inductors**

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### **A novel hysteresis power point optimizer for distributed solar power generation**

Veligorskyi, Oleksandr; **Husev, Oleksandr; Kosenko, Roman; Vinnikov, Dmitri** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 12-22 : ill <https://doi.org/10.2478/ecce-2018-0002>

### **Novel inductive power transfer approach based on Z-source network with compensation circuit**

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### **Optimal coupling coefficient calculation for inductances in interleaved bidirectional DC-DC converters**

**Tytelmaier, Kostiantyn**; Husev, Oleksandr; Veligorskyi, Oleksandr; Khomenko, Maksym; Maladyka, D. Technical Electrodynamics

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**An Overview of bidirectional AC-DC grid connected converter topologies for low voltage battery integration**

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