

### **AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines**

**Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Tarraste, Marek; Vaimann, Toomas; Rassõlkin, Anton; Asad, Bilal; Ghahfarokhi, Payam Shams** Energies 2021 / 13 p. : ill <https://doi.org/10.3390/en14051241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Accessible battery model with aging dependency**

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### **Acoustic noise computation of electrical motors using the boundary element method**

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### **Additive Manufacturing and Performance of E-Type Transformer Core**

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### **Analysis of fault-tolerant operation capabilities of an isolated bidirectional current-source DC–DC converter**

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### **Analysis of traditional and alternative methods for solving voltage problems in low voltage grids : an Estonian case study**

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### **Applications of game theory to design and operation of modern power systems: a comprehensive review**

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### **Ash and flue gas from oil shale oxy-fuel circulating fluidized bed combustion**

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### **Batch and fed-batch ethanol fermentation of cheese-whey powder with mixed cultures of different yeasts**

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

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#### **Cities4ZERO approach to foresight for fostering smart energy transition on municipal level**

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

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**Development and performance assessment of prefabricated insulation elements for deep energy renovation of apartment buildings**

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**Economic dispatch of CHP units through District Heating Network's demand-side management**

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**An efficient non-inverting buck-boost converter with improved step up/down ability**

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**An embedded half-bridge  $\Gamma$ -Z-source inverter with reduced voltage stress on capacitors**

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**Evaluating outdoor thermal comfort using a mixed-method to improve the environmental quality of a university campus**

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**Experimental comparison of two-level full-SiC and three-level Si-SiC quasi-Z-source inverters for PV applications**

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

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**Grid-forming operation of energy-router based on model predictive control with improved dynamic performance**

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**Heat loss due to domestic hot water pipes**

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**Heating sizing power reduction in buildings connected to district heating with dynamically controlled DHW setback and flow limiters**

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**Hybrid inverter and control strategy for enabling the PV generation dispatch using extra-low-voltage batteries**

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**Hygrothermal analysis of masonry wall with reed boards as interior insulation system**

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**The impact of air pressure conditions on the performance of single room ventilation units in multi-story buildings**

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**Impact of transformer turns ratio on the power losses and efficiency of the wide range isolated buck–boost converter for photovoltaic applications**

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**The influence of solar energy on the development of the mining industry in the republic of Cuba**

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**Interface converters for residential battery energy storage systems : practices, difficulties and prospects**

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**Inventory routing for ammonia supply in German ports**

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**Investigation and field measurements for demand side management control technique of smart air conditioners located at residential, commercial, and industrial sites**

Masood, Bilal; Guobing, Song; Nebhen, Jamel; Rehman, Ateeq Ur; **Iqbal, Muhammad Naveed**; Rasheed, Iftikhar; Bajaj, Mohit; Shafiq, Muhammad; Hamam, Habib Energies 2022 / art. 2482, 23 p. : ill <https://doi.org/10.3390/en15072482> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Laser additively manufactured magnetic core design and process for electrical machine applications**

**Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Lind, Liina; Virro, Indrek; Rassõlkin, Anton; Dedova, Tatjana** Energies 2022 / art. 3665 <https://doi.org/10.3390/en15103665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Method for assessing heat loss in a district heating network with a focus on the state of insulation and actual demand for useful energy**

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**Methods of condition monitoring and fault detection for electrical machines**

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**Modeling an alternate operational ground source heat pump for combined space heating and domestic hot water power sizing**

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**Modular battery charger for light electric vehicles**

**Blinov, Andrei**; Verbytskyi, Ievgen; **Zinchenko, Denys; Vinnikov, Dmitri**; Galkin, Ilja Energies 2020 / art. 774, 21 p. : ill <https://doi.org/10.3390/en13040774> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modular self-balancing battery charger concept for cost-effective power-assist wheelchairs**

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### **A multisensory, green, and energy efficient housing neuromarketing method**

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### **Neural network-based model reference control of braking electric vehicles**

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### **A new method for contrasting energy performance and near-zero energy building requirements in different climates and countries**

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### **A new virtual synchronous generator design based on the SMES system for frequency stability of low-inertia power grids**

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### **A novel solar envelope method based on solar ordinances for urban planning**

**De Luca, Francesco**; Dogan, Timur Building Simulation 2019 / p. 817 - 834 <https://doi.org/10.1007/s12273-019-0561-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A Novel vector control strategy for a six-phase induction motor with low torque ripples and harmonic currents**

**Heidari, Hamidreza**; **Rassölkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; Taheri, Asghar; Holakooie, Mohammad Hosein; **Belahcen, Anouar** Energies 2019 / art. 1102, 14 p. : ill <https://doi.org/10.3390/en12061102> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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