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
Savard, Christophe; Iakovleva, Emiliia; Ivanchenko, Daniil; **Rassõlkin, Anton** Energies 2021 / art. 3493, 16 p https://doi.org/10.3390/en14123493 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Acoustic noise computation of electrical motors using the boundary element method
Sathyan, Sabin; Aydin, Ugur; **Belahcen, Anouar** Energies 2020 / art. 0245 https://doi.org/10.3390/en13010245 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Additive Manufacturing and Performance of E-Type Transformer Core
Tiismus, Hans; **Kallaste, Ants**; Belahcen, Anouar; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Ghahfarokhi, Payam Shams** Energies 2021 / art. 3278 https://doi.org/10.3390/en14113278 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Additive manufacturing of electrical machines - towards the industrial use of a novel technology
Vaimann, Toomas; **Kallaste, Ants** Energies 2023 / art. 544 https://doi.org/10.3390/en16010544

Advances in climatic form finding in architecture and urban design
De Luca, Francesco Energies 2023 / art. 3935 https://doi.org/10.3390/en16093935

Aggregated conducted electromagnetic interference generated by DC/DC converters with deterministic and random modulation
Loschi, Hermes; Smolenski, Robert; Lezynski, Piotr; Nascimento, Douglas; **Demidova, Galina** Energies 2020 / art. 3698 https://doi.org/10.3390/en13143698

Air distribution and air handling unit configuration effects on energy performance in an air-heated ice rink arena
Taebnia, Mehdi; Toomla, Sander; Leppä, Lauri; **Kurnitski, Jarek** Energies 2019 / art. 693, 21 p. : ill https://doi.org/10.3390/en12040693 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ammonia production as alternative energy for the Baltic Sea Region
Prause, Gunnar Klaus; Olaniyi, Eunice Omolola; **Gerstlberger, Wolfgang Dieter** Energies 2023 / art. 1831 https://doi.org/10.3390/en16041831

Analysis of fault-tolerant operation capabilities of an isolated bidirectional current-source DC–DC converter
Blinov, Andrei; **Kosenko, Roman**; **Chub, Andrii**; Ivakhno, Volodymyr Energies 2019 / art. 3203, p. 14 : ill https://doi.org/10.3390/en12163203 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of traditional and alternative methods for solving voltage problems in low voltage grids : an Estonian case study
Rosin, Argo; **Drovtar, Imre**; **Mõlder, Heigo**; **Haabel, Kaija**; **Astapov, Victor**; **Vinnal, Toomas**; **Korõtko, Tarmo** Energies 2022 / art. 1104 https://doi.org/10.3390/en15031104 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Applications of game theory to design and operation of modern power systems: a comprehensive review
Navon, Aviad; Yosef, Gefen Ben; Machlev, Ram; Shapira, Shmuel; Chowdhury, Nilanjan Roy; **Belikov, Juri**; Orda, Ariel; Levron, Yoash Energies 2020 / art. 3982, 34 p https://doi.org/10.3390/en13153982 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ash and flue gas from oil shale oxy-fuel circulating fluidized bed combustion
Loo, Lauri; **Konist, Alar**; **Nešumajev, Dmitri**; **Pihu, Tõnu**; **Maaten, Birgit**; **Siirde, Andres** Energies 2018 / art. 1218, 12 p. : ill https://doi.org/10.3390/en11051218 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Assessment of power system asset dispatch under different local energy community business models
Korõtko, Tarmo; **Plaum, Freddy**; **Häring, Tobias**; Mutule, Anna; Lazdins, Roberts; Borščevskis, Olegs; **Rosin, Argo**; Carroll, Paula Energies 2023 / art. 3476 https://doi.org/10.3390/en16083476

Autothermal Siberian pine nutshell pyrolysis maintained by exothermic reactions
Astafev, Alexander; Shanenkov, Ivan; Ibraeva, Kanipa; Tabakaev, Roman; **Preis, Sergei** Energies 2022 / art. 7118 https://doi.org/10.3390/en15197118 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Batch and fed-batch ethanol fermentation of cheese-whey powder with mixed cultures of different yeasts
Farkas, Csilla; Rezessy-Szabo, Judit M.; **Gupta, Vijai Kumar**; Bujna, Erika; Pham, Tuan M.; Pásztor-Huszár, K.; Friedrich, László; Bhat, Rajeev; Thakur, Vijay Kumar; Nguyen, Quang D. Energies 2019 / Art. 4495 https://doi.org/10.3390/en12234495 Journal metrics at

Scopus Article at Scopus Journal metrics at WOS Article at WOS

Battery storage technologies for electrical applications : impact in stand-alone photovoltaic systems
Akinyele, Daniel; **Belikov, Juri**; Levron, Yoash Energies 2017 / art. 1760, 39 p. : ill https://doi.org/10.3390/en10111760

The bearing faults detection methods for electrical machines — the state of the art
Khan, Muhammad Amir; **Asad, Bilal**; **Kudelina, Karolina**; **Vaimann, Toomas**; **Kallaste, Ants** Energies 2023 / art. 296 https://doi.org/10.3390/en16010296

Bidirectional twisted single-stage single-phase buck-boost DC-AC converter
Husev, Oleksandr; **Matiushkin, Oleksandr**; Roncero-Clemente, Carlos; **Vinnikov, Dmitri**; Chopyk, Vasiliy 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

Challenges of microgrids in remote communities: a STEEP model application
Akinyele, Daniel; **Belikov, Juri**; Levron, Yoash Energies 2018 / art. 432, 35 p. : ill https://doi.org/10.3390/en11020432 Journal metrics at Scopus Article at Scopus Journal metric at WOS Article at WOS

Cities4ZERO approach to foresight for fostering smart energy transition on municipal level
Tatar, Merit; **Kalvet, Tarmo**; **Tiits, Marek** Energies 2020 / art. 3533 https://doi.org/10.3390/en13143533 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cleaning of floating photovoltaic systems : a critical review on approaches from technical and economic perspectives
Zahedi, Rafi; Ranjbaran, Parisa; Gharehpetian, Gevork B.; Mohammadi, Fazel; **Ahmadiahangar, Roya** Energies 2021 / art. 2018, 25 p. : ill https://doi.org/10.3390/en14072018 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 evaluation of common-ground converters for dual-purpose application
Hemmati Shahsavar, Tala; **Rahimpour, Saeed**; **Vosoughi Kurdkandi, Naser**; Fesenko, Artem; **Matiushkin, Oleksandr**; **Husev, Oleksandr**; **Vinnikov, Dmitri** Energies 2023 / art. 2977 https://doi.org/10.3390/en16072977

Comparative simulation study of pump system efficiency driven by induction and synchronous reluctance motors
Gevorkov, Levon; Dominguez-Garcia, Jose Luis; **Rassõlkin, Anton**; **Vaimann, Toomas** Energies 2022 / art. 4068 https://doi.org/10.3390/en15114068 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of district heating supply options for different CHP configurations
Ruseljuk, Pavel; **Dedov, Andrei**; **Hlebnikov, Aleksandr**; **Lepiksaar, Kertu**; **Volkova, Anna** Energies 2023 / art. 603, 14 p. : ill https://doi.org/10.3390/en16020603

Cooling thermal comfort and efficiency parameters of ceiling panels, underfloor cooling, fan-assisted radiators, and fan coil
Võsa, Karl-Villem; **Ferrantelli, Andrea**; **Kurnitski, Jarek** Energies 2022 / art. 4156 https://doi.org/10.3390/en15114156 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Co-pyrolysis of woody biomass and oil shale — a kinetics and modelling study
Lyons Ceron, Alejandro; **Ochieng, Richard**; **Sarker, Shiplu**; **Järvik, Oliver**; **Konist, Alar** Energies 2024 / art. 1055 https://doi.org/10.3390/en17051055

Co-Pyrolysis of Woody Biomass and Oil Shale in a Batch Reactor in CO2, CO2-H2O, and Ar Atmospheres
Lyons Cerón, Alejandro; **Konist, Alar** Energies 2023 / art. 3145 https://doi.org/10.3390/en16073145

Cost and energy reduction of a New nZEB wooden building
Arumägi, Endrik; **Kalamees, Targo** Energies 2020 / art. 3570, 16 p. : ill https://doi.org/10.3390/en13143570 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Current challenges in operation, performance, and maintenance of photovoltaic panels
Orosz, Tamas; **Rassõlkin, Anton**; Arsenio, Pedro; Poor, Peter; **Valme, Daniil**; Sleisz, Adam Energies 2024 / art. 1306 https://doi.org/10.3390/en17061306

Current harmonic aggregation cases for contemporary loads
Daniel, Kamran; **Kütt, Lauri**; **Iqbal, Muhammad Naveed**; **Shabbir, Noman** Energies 2022 / art. 437 https://doi.org/10.3390/en15020437 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Day-ahead market modelling of large-scale highly-renewable multi-energy systems : analysis of the North Sea region towards 2050
Gea-Bermudez, Juan; Das, Kaushik; **Koduvere, Hardi**; Koivisto, Matti J. Energies 2021 / art. 88, 17 p. : ill https://doi.org/10.3390/en14010088 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Delightful daylighting : a framework for describing the experience of daylighting in Nordic homes and 'coupling it with quantitative assessments
Viikberg, Hanna; **Sepulveda Luque, Abel**; **De Luca, Francesco** Energies 2022 / art. 1815 https://doi.org/10.3390/en15051815 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design and analysis of a DC solid-state circuit breaker for residential energy router application
Rahimpour, Saeed; **Husev, Oleksandr**; **Vinnikov, Dmitri** Energies 2022 / art. 9434 https://doi.org/10.3390/en15249434 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design and experimental validation of a single-stage PV string inverter with optimal number of interleaved buck-boost cells
Fesenko, Artem; **Matiushkin, Oleksandr**; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Strzelecki, Ryszard; Kołodziejek, Pjotr Energies 2021 / art. 2448, p., 17 p. : ill https://doi.org/10.3390/en14092448 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A detailed testing procedure of numerical differential protection relay for EHV auto transformer
Ehsan, Umer; Jawad, Muhammad; Javed, Umar; Zaidi, Khurram Shabih; Rehman, Ateeq Ur; **Rassõlkin, Anton**; Althobaiti, Maha M.; Hamam, Habib; **Shafiq, Muhammad** Energies 2021 / art. 8447 https://doi.org/10.3390/en14248447 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determining the optimal directions of investment in regional renewable energy development
Sotnyk, Iryna; Kurbatova, Tetiana; Romaniuk, Yaroslavna; Prokopenko, Olha; Gonchar, Viktoriya; **Prause, Gunnar Klaus**; Sapiński, Aleksander Energies 2022 / art. 3646 https://doi.org/10.3390/en15103646 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development and performance assessment of prefabricated insulation elements for deep energy renovation of apartment buildings
Pihelo, Peep; **Kuusk, Kalle**; **Kalamees, Targo** Energies 2020 / art. 1709, 20 p. : ill https://doi.org/10.3390/en13071709 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of a reduced order model of solar heat gains prediction
Tamm, Meril; Cid, Jordi Macia; Paramio, Roser Capdevila; Baulenas, Joan Farnos; **Thalfeldt, Martin**; **Kurnitski, Jarek** Energies 2020 / art. 6316, 17 p. : ill https://doi.org/10.3390/en13236316 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Digital Twin as a virtual sensor for wind turbine applications
Ibrahim, Mahmoud; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; Zakis, Janis; Hyunh, Van Khang; Pomarnacki, Raimondas Energies 2023 / art. 6246 https://doi.org/10.3390/en16176246

Economic dispatch of CHP units through District Heating Network's demand-side management
Rušeljuk, Pavel; **Lepiksaar, Kertu**; **Siirde, Andres**; **Volkova, Anna** Energies 2021 / art. 4553, 20 p. : ill https://doi.org/10.3390/en14154553 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effects of coupling combined heat and power production with district cooling
Lepiksaar, Kertu; **Mašatin, Vladislav**; **Krupenski, Igor**; **Volkova, Anna** Energies 2023 / art. 4552 https://doi.org/10.3390/en16124552

Effects of the COVID-19 pandemic on energy systems and electric power grids — a review of the challenges ahead
Navon, Aviad; Machlev, Ram; Carmon, David; **Onile, Abiodun Emmanuel**; **Belikov, Juri**; Levron, Yoash Energies 2021 / art. 1056, 14 p. : ill https://doi.org/10.3390/en14041056 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An efficient non-inverting buck-boost converter with improved step up/down ability
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri**; Peftitsis, Dimosthenis Energies 2022 / art. 4550 https://doi.org/10.3390/en15134550 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electric vehicles charging infrastructure demand and deployment : challenges and solutions
Singh, Praveen Prakash; **Wen, Fushuan**; **Palu, Ivo**; Sachan, Sulabh; Deb, Sanchari Energies 2023 / art. 7 https://doi.org/10.3390/en16010007

An embedded half-bridge Γ-Z-source inverter with reduced voltage stress on capacitors

Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; Nozadian, Mohsen Hasan Babayi; Shokati Asl, Elias; Babaei, Ebrahim; **Chub, Andrii** Energies 2021 / art. 6433, 21 p. : ill https://doi.org/10.3390/en14196433 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energy performance certificate classes rating methods tested with data : how does the application of minimum energy performance standards to worst-performing buildings affect renovation rates, costs, emissions, energy consumption?
Ferrantelli, Andrea; **Kurnitski, Jarek** Energies 2022 / art. 7552 https://doi.org/10.3390/en15207552 Journal metrics at Scopus Article at Scopus Journal metric at WOS Article at WOS

Energy pile field simulation in large buildings: validation of surface boundary assumptions
Ferrantelli, Andrea; **Fadejev, Jevgeni**; **Kurnitski, Jarek** Energies 2019 / art. 770, 20 p. : ill https://doi.org/10.3390/en12050770 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energy security assessment of emerging economies under global and local challenges
Sotnyk, Iryna; Kurbatova, Tetiana; Kubatko, Oleksandr; Prokopenko, Olha; **Prause, Gunnar Klaus**; Kovalenko, Yevhen; Trypolska, Galyna; Pysmenna, Uliana Energies 2021 / art. 5860, 20 p. : ill https://doi.org/10.3390/en14185860

Energy storage for 1500 V photovoltaic systems : A comparative reliability analysis of DC-and AC-Coupling
He, Jinkui; Yang, Yongheng; **Vinnikov, Dmitri** Energies 2020 / art. 3355, 16 p. : ill https://doi.org/10.3390/en13133355 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Enzymatic conversion of hydrolysis lignin - a potential biorefinery approach
Khan, Sharib; Puss, Kait Kaarel; **Lukk, Tiit**; Loog, Mart; Kikas, Timo; Salmar, Siim Energies 2023 / art. 370, 13 p. : ill https://doi.org/10.3390/en16010370

Evaluating outdoor thermal comfort using a mixed-method to improve the environmental quality of a university campus
Eslamirad, Nasim; **Sepulveda Luque, Abel**; **De Luca, Francesco**; **Lylykangas, Kimmo Sakari** Energies 2022 / art. 1577, 26 p. : ill https://doi.org/10.3390/en15041577 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Experimental comparison of two-level full-SiC and three-level Si–SiC quasi-Z-source inverters for PV applications
Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Pires Pimentel, Sergio**; **Santasheva, Elena** Energies 2019 / 2509 ; 17 p. : ill https://doi.org/10.3390/en12132509 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Exploratory data analysis based short-term electrical load forecasting : a comprehensive analysis
Javed, Umar; Ijaz, Khalid; **Shabbir, Noman**; **Kütt, Lauri**; **Husev, Oleksandr** Energies 2021 / art. 5510 https://doi.org/10.3390/en14175510 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 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

Grid-forming operation of energy-router based on model predictive control with improved dynamic performance
Najafzadeh, Mahdiyyeh; Strzelecka, Natalia; **Husev, Oleksandr**; **Roasto, Indrek**; Nassereddine, Kawsar; **Vinnikov, Dmitri**; Strzelecki, Ryszard Energies 2022 / 14 p. : ill https://doi.org/10.3390/en15114010 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Heat loss due to domestic hot water pipes
Hamburg, Anti; **Mikola, Alo**; **Parts, Tuule Mall**; **Kalamees, Targo** Energies 2021 / art. 6446 https://doi.org/10.3390/en14206446 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Heating sizing power reduction in buildings connected to district heating with dynamically controlled DHW setback and flow limiters
Hajian, Hatef; **Simson, Raimo**; **Kurnitski, Jarek** Energies 2022 / art. 5278 https://doi.org/10.3390/en15145278 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

How can sustainable public transport be improved? A traffic sign recognition approach using convolutional neural network
Liu, Jingjing; Ge, Hongwei; Li, Jiajie; He, Pengcheng; Hao, Zhangang; **Hitch, Michael William** Energies 2022 / art. 7386, 14 p. : ill https://doi.org/10.3390/en15197386

Hybrid heat pump performance evaluation in different operation modes for single-family house
Tihana, Jelena; **Ali, Hesham**; Apse, Jekaterina; Jekabsons, Janis; Ivancovs, Dmitrijs; Gaujena, Baiba; **Dedov, Andrei** Energies 2023 / art. 7018 https://doi.org/10.3390/en16207018

Hybrid inverter and control strategy for enabling the PV generation dispatch using extra-low-voltage batteries
Meneghetti, Luiz Henrique; **Carvalho da Silva, Edivan Laercio**; Carati, Emerson Giovani; Denardin, Gustavo Weber; da Costa, Jean Patric; de Oliveira Stein, Carlos Marcelo; Cardoso, Rafael Energies 2022 / art. 7539 https://doi.org/10.3390/en15207539 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hygrothermal analysis of masonry wall with reed boards as interior insulation system
Keskküla, Kadri; Aru, Tambet; **Kiviste, Mihkel**; Miljan, Martti-Jaan Energies 2020 / art. 5252, 10 p. : ill https://doi.org/10.3390/en13205252 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The impact of air pressure conditions on the performance of single room ventilation units in multi-story buildings
Mikola, Alo; **Simson, Raimo**; **Kurnitski, Jarek** Energies 2019 / art. 2633, 18 p. : ill https://doi.org/10.3390/en12132633 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of transformer turns ratio on the power losses and efficiency of the wide range isolated buck–boost converter for photovoltaic applications
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim**; **Liivik, Elizaveta** Energies 2020 / art. 5645, 21 p https://doi.org/10.3390/en13215645 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Integrating smart energy management system with internet of things and cloud computing for efficient demand side management in smart grids
Saleem, M. Usman; Shakir, Mustafa; Usman, M. Rehan; Bajwa, M. Hamza Tahir; **Shabbir, Noman**; **Shams Ghahfarokhi, Payam**; **Daniel, Kamran** Energies 2023 / art. 4835 : ill https://doi.org/10.3390/en16124835

Intelligent control of robots with minimal power consumption in pick-and-place operations
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Energies 2023 / art. 7418 https://doi.org/10.3390/en16217418

Interface converters for residential battery energy storage systems : practices, difficulties and prospects
Galkin, Ilja; **Blinov, Andrei**; Vorobyov, Maxim; Bubovich, Alexander; Saltanovs, Rodions; Peftitsis, Dimosthenis Energies 2021 / art. 3365 https://doi.org/10.3390/en14123365 Journal metrics at scopus Article at Scopus Journal metrics at WOS Article at WOS

Inventory routing for ammonia supply in German ports
Prause, Felix; **Prause, Gunnar**; Philipp, Robert Energies 2022 / art. 6485, 22 p. : ill. https://doi.org/10.3390/en15176485 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Inverter-fed motor drive system : a systematic analysis of condition monitoring and practical diagnostic techniques
Energies 2023 / art. 5628 https://doi.org/10.3390/en16155628

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

Market mechanisms and trading in microgrid local electricity markets : a comprehensive review
Zahraoui, Younes; **Korõtko, Tarmo**; **Rosin, Argo**; **Agabus, Hannes** Energies 2023 / art. 2145, 52 p. : ill https://doi.org/10.3390/en16052145

Market stakeholder analysis of the practical implementation of carbonation curing on steel slag for urban sustainable governance
Li, Jiajie; Wang, Chenyu; Song, Xiaoqian; Jin, Xin; Zhao, Shaowei; Qi, Zihan; Zeng, Hui; Zhu, Sitao; Jiang, Fuxing; Ni, Wen; **Hitch, Michael William** Energies 2022 / art. 2399, 19 p. : ill https://doi.org/10.3390/en15072399

Method for assessing heat loss in a district heating network with a focus on the state of insulation and actual demand for useful energy
Chicherin, Stanislav; Mašatin, Vladislav; **Siirde, Andres**; **Volkova, Anna** Energies 2020 / art. 4505, 15 p. : ill https://doi.org/10.3390/en13174505 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Methods of condition monitoring and fault detection for electrical machines
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; Khang, Huynh Van Energies 2021 / art. 7459, 20 p. : ill https://doi.org/10.3390/en14227459 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modeling an alternate operational ground source heat pump for combined space heating and domestic hot water power sizing
Ahmed, Kaiser; **Fadejev, Jevgeni**; **Kurnitski, Jarek** Energies 2019 / art. 2120, 26 p. : ill https://doi.org/10.3390/en12112120 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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
Galkin, Ilja; **Blinov, Andrei**; Verbytskyi, Ievgen; **Zinchenko, Denys** Energies Special Issue Power Electronic Systems for Efficient and Sustainable Energy Supply 2019 / art. en12081526, 21 p. : ill https://doi.org/10.3390/en12081526 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A multisensory, green, and energy efficient housing neuromarketing method
Kaklauskas, Arturas; Ubarte, Ieva; Kalibatas, Darius; **Lill, Irene** Energies 2019 / art. 3836, 30 p. : ill https://doi.org/10.3390/en12203836 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Neural network-based model reference control of braking electric vehicles
Vodovozov, Valery; Aksjonov, Andrei; **Petlenkov, Eduard**; **Raud, Zoja** Energies 2021 / art. 2373 https://doi.org/10.3390/en14092373 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

New equation for optimal insulation dependency on the climate for office buildings
Ahmed, Kaiser; **Kurnitski, Jarek** Energies 2021 / art. 321 https://doi.org/10.3390/en14020321 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A new method for contrasting energy performance and near-zero energy building requirements in different climates and countries
Kurnitski, Jarek Energies 2018 / art. 1334, 22 p. : ill https://doi.org/10.3390/en11061334 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A new virtual synchronous generator design based on the SMES system for frequency stability of low-inertia power grids
Magdy, Gaber; Bakeer, Abualkasim Ahmed Ali; Nour, Morsy; **Petlenkov, Eduard** Energies 2020 / art. 5641, 17 p. : ill https://doi.org/10.3390/en13215641 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Novel approaches to electrical machine fault diagnosis
Vaimann, Toomas; Antonino-Daviu, Jose Alfonso; **Rassõlkin, Anton** Energies 2023 / art. 5641 https://doi.org/10.3390/en16155641

A Novel vector control strategy for a six-phase induction motor with low torque ripples and harmonic currents
Heidari, Hamidreza; **Rassõlkin, 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

Office building tenants' electricity use model for building performance simulations
Ferrantelli, Andrea; **Kuivjõgi, Helena**; **Kurnitski, Jarek**; **Thalfeldt, Martin** Energies 2020 / art. 5541 https://doi.org/10.3390/en13215541 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Operation optimization of an integrated energy service provider with ancillary service provision
Lai, Xinyi; Xie, Zhihan; Xu, Danlu; Ying, Shuyang; Zeng, Yiming; Jiang, Chenwei; Wang, Fei; **Wen, Fushuan**; **Palu, Ivo** Energies 2022 / art. 4376, 15 p. : ill https://doi.org/10.3390/en15124376 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimal rotating receiver angles estimation for multicoil dynamic wireless power transfer
Pakhaliuk, Bohdan; Shevchenko, Viktor; Mućko, Jan; **Husev, Oleksandr**; Lukianov, Mykola; Kołodziejek, Pjotr; Strzelecka, Natalia; Strzelecki, Ryszard Energies 2021 / art. 6144, 15 p. : ill https://doi.org/10.3390/en14196144 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimal tuning of fractional order sliding mode controller for PMSM speed using neural network with reinforcement learning
Zahraoui, Younes; Zaihidee, Fardila M.; Kermadi, Mostefa; Mekhilef, Saad; Alhamrouni, Ibrahim; Seyedmahmoudian, Mehdi; Stojcevski, Alex Energies 2023 / art. 4353 https://doi.org/10.3390/en16114353

Optimal ultra-local model control integrated with load frequency control of renewable energy sources based microgrids
Bakeer, Abualkasim Ahmed Ali; Magdy, Gaber; **Chub, Andrii**; Jurado, Francisco; Rihan, Mahmoud Energies 2022 / art. 9177 https://doi.org/10.3390/en15239177 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Outdoor thermal comfort optimization in a cold climate to mitigate the level of urban heat island in an urban area
Eslamirad, Nasim; **Sepulveda Luque, Abel**; **De Luca, Francesco**; **Lylykangas, Kimmo Sakari**; **Ben Yahia, Sadok** Energies 2023 / art. 4546, 28 p. : ill https://doi.org/10.3390/en16124546

A parallel estimation system of stator resistance and rotor speed for active disturbance rejection control of six-phase induction motor
Heidari, Hamidreza; **Rassõlkin, Anton**; Holakooie, Mohammad Hosein; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar**; Lukichev, Dmitry Energies 2020 / 17 p https://doi.org/10.3390/en13051121 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Pathway analysis of a zero-emission transition in the Nordic-Baltic region
Lund, Peter D.; Skytte, Klaus; Bolwig, Simon; Bolkesjö, Torjus Folsland; **Koduvere, Hardi** Energies 2019 / art. 3337, 20 p. : ill https://doi.org/10.3390/en12173337 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Performance comparison of PD data acquisition techniques for condition monitoring of medium voltage cables
Shafiq, Muhammad; **Kiitam, Ivar**; Kauhaniemi, Kimmo; Taklaja, Paul; **Kütt, Lauri**; **Palu, Ivo** Energies 2020 / art. 4272, 14 p. : ill https://doi.org/10.3390/en13164272 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Performance improvement of PWM control methods for voltage step-down in series resonant DC–DC converters
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** Energies 2020 / art. en13174569 ; 18 p https://doi.org/10.3390/en13174569 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photovoltaic energy yield improvement in two-stage solar microinverters
Chub, Andrii; **Vinnikov, Dmitri**; **Stepenko, Serhii**; **Liivik, Elizaveta**; Blaabjerg, Frede Energies 2019 / art. 3774, 17 p. : ill https://doi.org/10.3390/en12193774 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

PI parameter influence on underfloor heating energy consumption and setpoint tracking in nZEBs
Kull, Tuule Mall; **Thalfeldt, Martin**; **Kurnitski, Jarek** Energies 2020 / art. 2068, 20 p. : ill https://doi.org/10.3390/en13082068 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Porous cores in small thermoacoustic devices for building applications
Auriemma, Fabio; Di Giulio, Elio; Napolitano, Marialuisa; Dragonetti, Raffaele Energies 2020 / art. 2941, 19 p. : ill https://doi.org/10.3390/en13112941 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Power converter solutions for industrial PV applications — a review
Verbytskyi, Ievgen; Lukianov, Mykola; Nassereddine, Kawsar; Pakhaliuk, Bohdan; **Husev, Oleksandr**; Strzelecki, Ryszard Energies 2022 / art. 3295 https://doi.org/10.3390/en15093295 Journal metrics at Scopus Article at Scopus Journal metrrics at WOS Article at WOS

Precision and accuracy of pulse propagation velocity measurement in power cables
Kiitam, Ivar; **Shafiq, Muhammad**; **Choudhary, Maninder**; **Parker, Martin**; **Palu, Ivo**; **Taklaja, Paul** Energies 2023 / art. 2702 https://doi.org/10.3390/en16062702

A qualitative control approach to reduce energy costs of hybrid energy systems : utilizing energy price and weather data
Taebnia, Mehdi; Heikkilä, Marko; **Kurnitski, Jarek** Energies 2020 / art. 1401, 17 p. : ill https://doi.org/10.3390/en13061401 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Recent trends in additive manufacturing and topology optimization of reluctance machines
Hussain, Shehzad; **Kallaste, Ants**; **Vaimann, Toomas** Energies 2023 / art. 3840 https://doi.org/10.3390/en16093840

Relationship analysis and optimisation of space layout to improve the energy performance of office buildings
Du, Tiantian; Turrin, Michela; Jansen, Sabine; Dobbelsteen, Andy van den; **De Luca, Francesco** Energies 2022 / art. 1268 https://doi.org/10.3390/en15041268 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Renovation results of Finnish single-family renovation subsidies : oil boiler replacement with heat pumps
Sankelo, Paula; Ahmed, Kaiser; **Mikola, Alo**; **Kurnitski, Jarek** Energies 2022 / art. 7620 https://doi.org/10.3390/en15207620 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A review of aging models for electrical insulation in power cables
Choudhary, Maninder; **Shafiq, Muhammad**; **Kiitam, Ivar**; Hussain, Amjad; **Palu, Ivo**; **Taklaja, Paul** Energies 2022 / Art. nr. 3408 https://doi.org/10.3390/en15093408 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Review of electric vehicle testing procedures for digital twin development: a comprehensive analysis
Rjabtšikov, Viktor; **Rassõlkin, Anton**; **Kudelina, Karolina**; **Kallaste, Ants**; **Vaimann, Toomas** Energies 2023 / art. 6952 https://doi.org/10.3390/en16196952

Review of energy challenges and horizons of hydrogen city buses
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Energies 2022 / art. 6945 https://doi.org/10.3390/en15196945 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A review of hybrid converter topologies
Afshari, Hossein; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri** Energies 2022 / art. 9341 https://doi.org/10.3390/en15249341 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Review of isolated matrix inverters : topologies, modulation methods and applications
Korkh, Oleksandr; **Blinov, Andrei**; **Vinnikov, Dmitri**; **Chub, Andrii** Energies 2020 / art. 2394, 30 p. : ill https://doi.org/10.3390/en13092394 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A review of non-residential building renovation and improvement of energy efficiency: office buildings in Finland, Sweden, Norway, Denmark, and Germany
Kiviste, Mihkel; Musakka, Sami; **Ruus, Aime**; Vinha, Juha Energies 2023 / art. 4220, 26 p https://doi.org/10.3390/en16104220

A review on additive manufacturing possibilities for electrical machines
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** Energies 2021 / art. 1940 https://doi.org/10.3390/en14071940 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Review on Braking Energy Management in Electric Vehicles
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Energies 2021 / art. 4477 https://doi.org/10.3390/en14154477 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Signal spectrum-based machine learning approach for fault prediction and maintenance of electrical machines
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; Khang, Huynh Van Energies 2022 / art. 9507 https://doi.org/10.3390/en15249507 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Single-stage buck–boost inverters: a state-of-the-art survey
Azizi, Mohammadreza; **Husev, Oleksandr**; **Vinnikov, Dmitri** Energies 2022 / art. 1622 https://doi.org/10.3390/en15051622 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sliding mean value subtraction-based DC drift correction of B-H curve for 3D-printed magnetic materials
Asad, Bilal; **Tiismus, Hans**; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Ghahfarokhi, Payam Shams** Energies 2021 / art. 284, 10 p https://doi.org/10.3390/en14020284 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sliding mode based control of dual boost inverter for grid connection
Lopez-Caiza, Diana; Flores-Bahamonde, Freddy; Kouro, Samir; Santana, Victor; Müller, Nicolas; **Chub, Andrii** Energies 2019 / art. 4241, 15 p.: ill https://doi.org/10.3390/en12224241 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Spectrum analysis for condition monitoring and fault diagnosis of ventilation motor : a case study
Shabbir, Noman; **Kütt, Lauri**; **Asad, Bilal**; Jawad, Muhammad; **Iqbal, Muhammad Naveed**; **Daniel, Kamran** Energies 2021 / art. 2001 https://doi.org/10.3390/en14072001 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

State-of-the-Art techniques for fault diagnosis in electrical machines: Advancements and future directions
Akbar, Siddique; **Vaimann, Toomas**; **Asad, Bilal**; **Kallaste, Ants**; **Sardar, Muhammad Usman**; **Kudelina, Karolina** Energies 2023 / Art. 6345 https://doi.org/10.3390/en16176345

Steady-state thermal modeling of salient pole synchronous generator
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; Belahcen, Anouar; **Vaimann, Toomas**; Kudrjavtsev, Oleg; **Asad, Bilal**; **Iqbal, Muhammad Naveed** Energies 2022 / art. 9460 https://doi.org/10.3390/en15249460 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Step-Up series resonant DC-DC converter with bidirectional-switch-based boost rectifier for wide input voltage range photovoltaic applications
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** Energies 2020 / Art. 3747 https://doi.org/10.3390/en13143747 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sustainable rural electrification : harnessing a cosmolocal wind
Troullaki, Katerina; Rozakis, Stelios; Latoufis, Kostas; **Giotitsas, Christos**; **Priavolou, Christina**; Freire, Fausto Energies 2022 / art. 4659 https://doi.org/10.3390/en15134659 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The influence of energy renovation on the change of indoor temperature and energy use
Hamburg, Anti; **Kalamees, Targo** Energies 2018 / art. 3179, p. 1-15 : ill https://doi.org/10.3390/en11113179 Journal metrics at

Scopus Article at Scopus Journal metrics at WOS Article at WOS

Understanding computational methods for solar envelopes based on design parameters, tools, and case studies : a review
Alkadri, Miktha Farid; **De Luca, Francesco**; Turrin, Michel; Sariyildiz, Sevil Energies 2020 / art. 3302, 25 p. : ill
https://doi.org/10.3390/en13133302 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Valorisation of waste heat in existing and future district heating systems
Pakere, Ieva; Blumberga, Dagnija; **Volkova, Anna**; **Lepiksaar, Kertu**; Zirne, Agate Energies 2023 / art. 6796
https://doi.org/10.3390/en16196796

Verification of utility-scale solar photovoltaic plant models for dynamic studies of transmission networks
Machlev, Ram; Batushansky, Zohar; Soni, Sachin; Chadliev, Vladimir; **Belikov, Juri**; Levron, Yoash Energies 2020 / art. 3191, 20 p. : ill https://doi.org/10.3390/en13123191 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wide input voltage range operation of the series resonant DC-DC converter with bridgeless boost rectifier
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri**; **Rosin, Argo** Energies 2020 / p. 4220−4237
https://doi.org/10.3390/en13164220 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wide range series resonant DC-DC converter with a reduced component count and capacitor voltage stress for distributed generation
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Blinov, Andrei**; Lai, Jih-Sheng Energies 2021 / art. 2051
https://doi.org/10.3390/en14082051 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Virtual inertia control methods in islanded microgrids
Škiparev, Vjatšeslav; Machlev, Ram; Chowdhury, Nilanjan Roy; Levron, Yoash; **Petlenkov, Eduard**; Belikov, Juri Energies 2021 / art. 1562, 20 p. : ill https://doi.org/10.3390/en14061562 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Voltage source operation of the energy-router based on model predictive control
Roasto, Indrek; **Husev, Oleksandr**; **Najafzadeh, Mahdiyyeh**; **Jalakas, Tanel**; Rodriguez, Jose Energies 2019 / art. 1892, 15 p. . ill https://doi.org/10.3390/en12101892 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS