Accelerated global MPPT for multimode series resonant DC-DC converter
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Florence, Italy, 14-16 July 2021 2021 https://doi.org/10.1109/CPE-POWERENG50821.2021.9501077

Adaptive virtual inertia-damping system based on model predictive control for low-inertia microgrids
Fawzy, Asmaa; **Bakeer, Abualkasim Ahmed Ali**; **Magdy, Gaber**; Atawi, Ibrahem E.; Roshdy, Mohamed IEEE Access 2021 / p. 109718 - 109731 https://doi.org/10.1109/ACCESS.2021.3101887 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Aggregator based coordinated Transactive Energy trading between Microgrids
Crasta, Cletus J.; **Mishra, Sambeet**; **Agabus, Hannes**; **Palu, Ivo** 2020 International Conference on Smart Grids and Energy Systems (SGES) 2020 https://doi.org/10.1109/SGES51519.2020.00166

Aggregator coordinated transactive energy trading for microgrids
Crasta, Cletus J. 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 105-106 : ill https://www.ester.ee/record=b5504019*est

An information modeling method for electric micro grids
Korõtko, Tarmo 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 205-208 : ill

Analysis of black start strategies for microgrids with renewable distributed generation
Armstorfer, Andreas; Biechl, Helmuth; **Rosin, Argo** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 2121–2125 : ill https://doi.org/10.1109/IECON.2019.8926631 Conference proceedings at Scopus Article at Scopus Article at WOS

Analysis of design requirements and optimization possibilities of partial power converter for photovoltaic string applications in DC microgrids
Chub, Andrii; **Hassanpour, Naser**; **Yadav, Neelesh**; **Jalakas, Tanel**; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE Access 2024 / p. 14605-14619 https://doi.org/10.1109/ACCESS.2024.3354375

Analysis of holdup time for DC grid-forming isolated active front-end converters
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 https://doi.org/10.1109/IECON49645.2022.9969075 Conference proceedings at Scopus Article at Scopus

Analysis of microgrid configuration effects on energy efficiency
Peterson, Kristjan; **Ahmadiahangar, Roya**; **Shabbir, Noman**; **Vinnal, Toomas** 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. : ill https://doi.org/

Analysis of protection and control functions of low voltage part of substation for smart grid applications
Mägi, Marek; **Peterson, Kristjan**; **Pettai, Elmo** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 297-304 : ill https://ieeexplore.ieee.org/document/6256243

Application of neural-network based variable fractional order PID controllers for load frequency control in isolated microgrids
Belikov, Juri; Nosrati, Komeil; **Škiparev, Vjatšeslav**; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Levron, Yoash Power system frequency control : modeling and advances. 1st Ed 2023 / p. 203–216 : ill https://www.elsevier.com/books/power-system-frequency-control/mishra/978-0-443-18426-0

Applied machine learning methods in microgrid simulations
Häring, Tobias 19th International Symposium “Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III” : Tartu, Estonia, January 14-17, 2020 2020 / p. 151-152 : ill https://www.ester.ee/record=b5291755*est

Bidding strategy of a microgrid considering risk interdependence between electricity and carbon markets
Yan, Yuan; Lin, Zihan; **Wen, Fushuan**; **Palu, Ivo** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill https://doi.org/10.1109/PESGM40551.2019.8974139

Bidirectional DC circuit breaker with improved performance during commissioning and reclosing
Pogulaguntla, Aditya; Raghavendra I, Venkata; Banavath, Satish Naik; **Chub, Andrii**; Sreekanth, Thamballa; Krishnamoorthy, Harish Sarma 24th European Conference on Power Electronics and Applications (EPE'22 ECCE Europe) 2022 / p. P1-P9 https://ieeexplore.ieee.org/document/9907667

Bidirectional isolated hexamode DC-DC converter
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE transactions on power electronics 2022 / p. 12264-12278 https://doi.org/10.1109/TPEL.2022.3170229 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Bidirectional operation of the power electronic interface for nearly-zero energy buildings
Roasto, Indrek; **Jalakas, Tanel**; **Rosin, Argo** 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2456-2464 : ill https://ieeexplore.ieee.org/document/8515405

Bidirectional SSCB for residential DC microgrids with reduced voltage and current stress during fault interruption
Aditya, P.; Banavath, Satish Naik; Lidozzi, Alessandro; **Chub, Andrii**; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227379

Black start and fault tolerant operation of isolated matrix converter for dc microgrids
Emiliani, Pietro; **Blinov, Andrei**; **Chub, Andrii**; de Carne, Giovanni; **Vinnikov, Dmitri** IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / 5 p https://doi.org/10.1109/IECON49645.2022.9968735 Conference proceedings at Scopus Article at Scopus

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

A chameleon algorithm for solving economic dispatch problem in microgrid system
Zahraoui, Younes; Alhamrouni, Ibrahim; Mekhilef, Saad; **Korõtko, Tarmo**; Jusoh, Awang; Sutikno, Tole Bulletin of electrical engineering and informatics 2023 / p. 1982-1992 https://doi.org/10.11591/eei.v12i4.4700

Clustering-based penalty signal design for flexibility utilization
Rosin, Argo; **Ahmadiahangar, Roya**; **Azizi, Elnaz**; Sahoo, Subham; **Vinnikov, Dmitri**; Blaabjerg, Frede; Dragicevic, Tomislav; Bolouki, Sadegh IEEE Access 2020 / p. 208850-208860 https://doi.org/10.1109/ACCESS.2020.3038822 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of the impact of different household occupancies on load matching algorithms
Häring, Tobias; **Ahmadiahangar, Roya**; **Rosin, Argo**; Biechl, Helmuth; **Korõtko, Tarmo** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p. : ill https://doi.org/10.1109/PQ.2019.8818270

Constrained intelligent frequency control in an AC Microgrid : an Online reinforcement learning based PID tuning approach
Nosrati, Komeil; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; **Škiparev, Vjatšeslav**; **Belikov, Juri**; Levron, Yoash 2023 IEEE Power & Energy Society General Meeting (PESGM) 2023 / 5 p. : ill https://doi.org/10.1109/PESGM52003.2023.10252482

Control of an uninterruptible power supply in a DC microgrid system
Palamar, Andriy; Karpinskyy, Mykola 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 80-84 : ill

Control of bidirectional grid-forming inverter for nearly zero energy buildings
Roasto, Indrek; **Jalakas, Tanel**; **Rosin, Argo** 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.2018.8659848

Control system for a diesel generator and UPS based microgrid
Palamar, Andriy; **Pettai, Elmo**; **Beldjajev, Viktor** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2010 / p. 47-52 : ill

Cooperative control of flywheel energy storage system and diesel generator for frequency regulation of microgrids using digital FIR filters
Faraji, M.; Mahdavi, Mohammad Saeed; **Gharehpetian, Gevork B.**; **Ahmadiahangar, Roya**; **Rosin, Argo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227448

Coordinated PI-based frequency deviation control of isolated hybrid microgrid : an online multi-agent tuning approach via reinforcement learning
Nosrati, Komeil; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Levron, Yoash; **Škiparev, Vjatšeslav**; **Belikov, Juri** 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / p. 1-5 : ill https://doi.org/10.1109/ISGT-Europe54678.2022.9960311

Current-fed partial power converter for photovoltaic aplications in DC microgrids

Jalakas, Tanel; **Kosenko, Roman**; **Chub, Andrii**; **Vinnikov, Dmitri**; **Blinov, Andrei** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / p. 1-5 : ill https://doi.org/10.1109/IECON48115.2021.9589899 Conference Proceedings at Scopus Article at Scopus Article at WOS

A cyber attack taxonomy for microgrid systems
Bahsi, Hayretdin; **Dola, Henry Ochieng**; **Khalil, Shaymaa Mamdouh**; **Korõtko, Tarmo** 2022 17th Annual System of Systems Engineering Conference (SOSE) 2022 / p. 324-331 https://doi.org/10.1109/SOSE55472.2022.9812642

DC droop control strategies and tuning principles
Roasto, Indrek; **Blinov, Andrei**; **Vinnikov, Dmitri**; Mackay, Laurens; **Jalakas, Tanel** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 https://doi.org/10.1109/RTUCON60080.2023.10412947

DC grid interface converter based on three-phase isolated matrix topology with phase-shift modulation
Emiliani, Pietro; **Blinov, Andrei**; **Chub, Andrii**; de Carne, Giovanni; **Vinnikov, Dmitri** 2022 IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 l. https://doi.org/10.1109/PEDG54999.2022.9923256

DC integration of residential photovoltaic systems : a survey
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Vinnikov, Dmitri**; **Blinov, Andrei** IEEE Access 2022 / p. 66974-66991 https://doi.org/10.1109/ACCESS.2022.3185788 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design considerations of dual-active bridge DC grid-forming converter for DC buildings
Carvalho, Edivan Laercio; **Sidorova, Aleksandra**; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / 11 p https://doi.org/10.1109/TIE.2023.3331125

Design of solid state circuit breaker
Jalakas, Tanel; **Chub, Andrii**; **Roasto, Indrek**; **Vinnikov, Dmitri** 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-5 https://doi.org/10.1109/RTUCON56726.2022.9978903

Development of experimental microgrid in Tallinn University of Technology
Peterson, Kristjan 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 101-102 : ill

Development of prosumer logical structure and object modeling
Korõtko, Tarmo; **Rosin, Argo**; **Ahmadiahangar, Roya** 2019 IEEE 13th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : [proceedings] 2019 / 6 p. : ill https://doi.org/10.1109/CPE.2019.8862390

Digital twins for designing energy management systems for microgrids: Implementation example based on taltech campulse project
Korõtko, Tarmo; **Zahraoui, Younes**; **Rosin, Argo**; **Agabus, Hannes** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227475

Dynamic modeling of networks, microgrids, and renewable sources in the dq0 reference frame : a survey
Baimel, Dmitry; **Belikov, Juri**; Guerrero, Joseph M.; Levron, Yoash IEEE Access 2017 / p. 21323-21335 : ill http://dx.doi.org/10.1109/ACCESS.2017.2758523

Effect of droop control curves on the efficiency of dual-active bridge converters
Carvalho, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** IECON 2023- 49th Annual Conference of the IEEE Industrial Electronics Society 2023 / 6 p https://doi.org/10.1109/IECON51785.2023.10312056

Effect of mission profile resolution on photovoltaic energy yield predictionin Python and MATLAB
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri**; Blaabjerg, Frede 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2021 / 5 p. : ill https://doi.org/10.1109/CPE-POWERENG50821.2021.9501222

Effectiveness analysis of microgrid modules
Peterson, Kristjan 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 146-148 : ill

Effects of voltage transients on the dc droop control in residential nanogrids
Roasto, Indrek; **Blinov, Andrei**; **Vinnikov, Dmitri**; **Jalakas, Tanel** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227464

Efficiency improvement of step-up series resonant DC-DC converter in buck operating mode
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill https://doi.org/10.1109/RTUCON51174.2020.9316574

Energy efficient behavior modeling for demand side recommender system in solar microgrid applications using multi-agent reinforcement learning model
Onile, Abiodun Emmanuel; **Belikov, Juri**; Levron, Yoash; **Petlenkov, Eduard** Sustainable cities and society 2023 / art. 104392, 20 p. : ill https://doi.org/10.1016/j.scs.2023.104392

Energy management of an isolated microgrid : a practical case
Ghasemi-Marzbali, Ali; **Ahmadiahangar, Roya**; Gouran Orimi, Sina; Shafiei, Mohammad; **Häring, Tobias**; **Rosin, Argo** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 13-16 October 2021, Toronto, ON, Canada 2021 / 6 p. : ill https://doi.org/10.1109/IECON48115.2021.9589801 Conference Proceedings at Scopus Article at Scopus Article at WOS

Energy scheduling of battery storage systems in micro grids
Armstorfer, Andreas; Biechl, Helmuth; **Rosin, Argo** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2017 / p. 27-33 : ill https://doi.org/10.1515/ecce-2017-0004

Energy storage expansion planning in microgrid
Ahmadiahangar, Roya; **Baharvandi, Amir**; **Rosin, Argo**; **Häring, Tobias**; **Azizi, Elnaz**; **Korõtko, Tarmo**; **Shabbir, Noman** Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 433-437 https://doi.org/10.1109/CPE-POWERENG48600.2020.9161502

Enhancing grid-forming converters control in hybrid AC/DC microgrids using bidirectional virtual inertia support
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; Abid, Abderahmane; Zaid, Sherif A.; Alghamdi, T. A. H.; Salama, Hossam S. Processes 2024 / art. 139 https://doi.org/10.3390/pr12010139 https://www.mdpi.com/2227-9717/12/1/139/htm

Experimental prototype of high-efficiency wind turbine based on Magnus effect
Lukin, Aleksandr; **Demidova, Galina**; **Lukichev, Dmitry**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 6 p https://doi.org/10.1109/IWED48848.2020.9069565

A family of bidirectional solid-state circuit breakers with increased safety in DC microgrids
Rahimpour, Saeed; **Husev, Oleksandr**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2023 https://doi.org/10.1109/TIE.2023.3337493

Fault tolerant control of a grid-connected microgrid with high penetration of renewable energy
Senanayaka, Jagath; Khang, Huynh Van; **Vaimann, Toomas**; **Rassõlkin, Anton** 24th International Conference on Electrical Machines and Systems (ICEMS) 2021 / p. 938-943 https://doi.org/10.23919/ICEMS52562.2021.9634364

Fault-tolerant control of a grid-connected bipolar DC microgrid with high penetration of intermittent renewable energy
Senanayaka, Jagath; Khang, Huynh Van; **Rassõlkin, Anton**; **Vaimann, Toomas**; Zakis, Janis; Pomarnacki, Raimondas IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 https://doi.org/10.1109/IECON49645.2022.9968572 Conference proceedings at Scopus Article at Scopus

Feasibility study of energy supply in deep North Regions: the case study of Yakutia remote community (Russia)
Trashchenkov, Sergei; **Astapov, Victor**; **Kull, Karl** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p. : ill https://doi.org/10.1109/PQ.2019.8818238

Flexibility enhancement of hybrid microgrids using optimal H∞ filtering-based fuzzy control of UIPC
Zolfaghari, Mahdi; **Ahmadiahangar, Roya**; Gharehpetian, Gevork B.; **Häring, Tobias**; **Rosin, Argo** Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 451-455 https://doi.org/10.1109/CPE-POWERENG48600.2020.9161545

Flexibility investigation of price-responsive batteries in the microgrids cluster
Ahmadiahangar, Roya; **Azizi, Elnaz**; Subham, Sahoo; **Häring, Tobias**; **Rosin, Argo**; **Vinnikov, Dmitri**; Dragicevic, Tomislav; Blaabjerg, Frede Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 456-461 : ill https://doi.org/10.1109/CPE-POWERENG48600.2020.9161667

Flywheel model for microgrid simulation
Plaum, Freddy 19th International Symposium “Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III” : Tartu, Estonia, January 14-17, 2020 2020 / p. 157-158 : ill https://www.ester.ee/record=b5291755*est

Full-bridge fault-tolerant isolated DC-DC converters : overview of technologies and application challenges
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE Power Electronics Magazine 2022 / p. 45-55 https://doi.org/10.1109/MPEL.2022.3196565 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fuzzy logic control application in DC-link voltage control of the energy router
Najafzadeh, Mahdiyyeh 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 59-60 : ill https://www.ester.ee/record=b5457278*est

Grid integration of DC buildings : standards, requirements and power converter topologies
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Emiliani, Pietro**; de Carne, Giovanni; **Vinnikov, Dmitri** IEEE open journal of power electronics 2022 / p. 798-823 https://doi.org/10.1109/OJPEL.2022.3217741 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High-efficiency quad-mode parallel PV power optimizer for DC microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE transactions on industry applications 2023 / p. 1002-1012 https://doi.org/10.1109/TIA.2022.3208879

High-efficiency quad-mode parallel PV power optimizer for DC microgrids
Sidorov, Vadim 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 59-60 : ill https://www.ester.ee/record=b5504019*est

Hybrid energy storage lifetime-oriented control strategy in islanded microgrids : a real time simulation case study
Häring, Tobias; Link, Luca; **Rosin, Argo**; **Biechl, Helmuth** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 https://doi.org/10.1109/ENERGYCON53164.2022.9830437

Impact of load matching algorithms on the battery capacity with different household occupancies
Häring, Tobias; **Ahmadiahangar, Roya**; **Rosin, Argo**; Biechl, Helmuth IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 2541-2547 https://doi.org/10.1109/IECON.2019.8927495 Conference proceedings at Scopus Article at Scopus Article at WOS

Impedance-source DC solid-state circuit breakers : an overview
Rahimpour, Saeed; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2022 / p. 186-191 https://doi.org/10.1109/SPEEDAM53979.2022.9842138

Implementation of burst control based on sigma-delta modulation in low-cost microcontroller
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE Workshop on Computers in Power Electronics 2022 / 6 l https://doi.org/10.1109/COMPEL53829.2022.9830023

Info-gap-based optimization of microgrids integrated with power, cooling and hydrogen generation units
Mahmoudnezhad, Fayezeh; Mirzaei, Mohammad Amin; **Plaum, Freddy**; **Ahmadiahangar, Roya**; **Kilter, Jako**; **Rosin, Argo** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 l https://doi.org/10.1109/CPE-POWERENG54966.2022.9880860

Input source identification algorithm For isolated buck-boost DC-DC converter
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE Workshop on Computers in Power Electronics 2022 / 6 p https://doi.org/10.1109/COMPEL53829.2022.9829973

Integration of electric vehicles with microgrid
Kõivastik, Ivar 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 44-47 : ill

Intelligent transformer : possibilities and challenges
Beldjajev, Viktor; **Roasto, Indrek**; **Lehtla, Tõnu** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 95-100 : ill

Inverters for power systems with renewable sources: basic topologies and purposes
Yamnenko, Iuliia; Tereshchenko, Tetiana; Fedin, Ihor; **Carvalho da Silva, Edivan Laercio**; Kozhushko, Yuliia; Bondarenko, Oleksandr 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227384

Lifetime-oriented control strategies for hybrid energy storage systems in an islanded microgrid
Cinay, Nazli; **Häring, Tobias**; **Rosin, Argo**; **Korõtko, Tarmo**; **Ahmadiahangar, Roya**; Biechl, Helmuth 2021 22nd IEEE International Conference on Industrial Technology (ICIT) : proceedings 2021 / p. 1-6 https://doi.org/10.1109/ICIT46573.2021.9453617 Conference Prceedings at Scopus Article at Scopus Article at WOS

Machine learning approach for flexibility characterisation of residential space heating

Häring, Tobias; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Biechl, Helmuth** IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, Toronto, Canada, Oct. 13-16, 2021 2021 / 6 p. : ill https://doi.org/10.1109/IECON48115.2021.9589216 Conference Proceedings at Scopus Article at Scopus 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

Mathematical modeling and analysis of a battery energy storage system for microgrids = Mikrovõrkude energiasalvestussüsteemi matemaatiline modelleerimine ja analüüs
Rahmoun, Ahmad 2017 https://digi.lib.ttu.ee/i/?9116

Mathematical modeling and control strategies for islanded microgrids = Saartalitluses mikrovõrkude matemaatiline modelleerimine ja juhtimisstrateegiad
Armstorfer, Andreas 2022 https://doi.org/10.23658/taltech.71/2022 https://digikogu.taltech.ee/et/Item/077a5b65-1320-40ac-b105-607deaa9a900 https://www.ester.ee/record=b5528446*est

Mathematical modeling and evaluation of a microgrid demonstrator in island mode
Armstorfer, Andreas; Beg, Nauman; **Rahmoun, Ahmad**; **Rosin, Argo**; **Biechl, Helmuth** NEIS 2017 Conference on Sustainable Energy Supply and Energy Storage Systems : Hamburg, 21 – 22 September 2017 2018 / p. 39-44 : ill https://neis-conference.com/wordpress/wp-content/uploads/2018/03/Tagungsband-NEIS-2017.pdf https://ieeexplore.ieee.org/document/8421809

Mathematical modeling and stability analysis of a microgrid in island operation
Beg, Nauman; **Armstorfer, Andreas**; **Rosin, Argo**; **Biechl, Helmuth** 2018 International Conference on Smart Energy Systems and Technologies (SEST), 10-12 September, 2018, Seville, Spain : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/SEST.2018.8495694

Microgrid for the Department of Electrical Drives and Power Electronics
Palamar, Andriy; **Pettai, Elmo** 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 54-61

Microgrid for TUT Power Engineering Building
Peterson, Kristjan 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 54-57 : ill

Microgrid oriented modeling of space heating system based on neural networks
Häring, Tobias; **Kull, Tuule Mall**; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Thalfeldt, Martin**; **Biechl, Helmuth** Journal of building engineering 2021 / art. 103150, 12 p. : ill https://doi.org/10.1016/j.jobe.2021.103150 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microgrid pilot in Tartu establishes model for community energy cooperative [Online resource]
Alvela, Ain news.err.ee 2022 Microgrid pilot in Tartu establishes model for community energy cooperative

Microgrids performance challenges
Kazakov, Aleksei; **Janson, Kuno**; **Vaimann, Toomas** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 42-46 : ill

Mikrovõrk võimaldab energiakasutust tõhusamalt juhtida
Alvela, Ain TööstusEST 2024 / lk. 26-29 : ill https://www.ester.ee/record=b4481084*est

MIMO reinforcement learning based approach for frequency support in microgrids with high renewable energy penetration
Škiparev, Vjatšeslav; **Belikov, Juri**; **Petlenkov, Eduard** 2021 IEEE Power & Energy Society General Meeting (PESGM), 26-29 July 2021 2021 / 5 p. : ill https://doi.org/10.1109/PESGM46819.2021.9637942

A multi-agent system approach for optimal microgrid expansion planning under uncertainty
Mishra, Sambeet; Bordin, Chiara; Tomasgard, Asgeir; **Palu, Ivo** International journal of electrical power & energy systems 2019 / p. 696-709 : ill https://doi.org/10.1016/j.ijepes.2019.01.044 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Multifunctional energy router for residential applications = Multifunktsionaalne energiaruuter eramutele
Najafzadeh, Mahdiyyeh 2022 https://doi.org/10.23658/taltech.25/2022 https://digikogu.taltech.ee/et/Item/6914b8ca-7ca5-49d1-868a-a6de9192f8b4 https://www.ester.ee/record=b5501867*est

Multi-port i-AFE converter for grid-interactive buildings: design requirements and efficiency evaluation
Carvalho, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Galkin, Ilya**; **Vinnikov, Dmitri** 2023 IEEE 8th Southern Power

Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 5 p
https://doi.org/10.1109/SPEC56436.2023.10408230

Multiport interface converter with an energy storage for nanogrids
Roasto, Indrek; **Rosin, Argo**; **Jalakas, Tanel** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6088–6093 : ill https://doi.org/10.1109/IECON.2018.8591104

A new high step-up switched-capacitor/inductor based DC-DC converter
Mashinchi Maheri, Hamed; Saadatizadeh, Zahra; Chavoshipour Heris, Pedram; Babaei, Ebrahim; Vinnikov, Dmitri 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 15-17 Nov. 2021 : conference proceedings 2021 / p. 1-5 https://doi.org/10.1109/RTUCON53541.2021.9711590

A new master-slave based centralized control method for an AC microgrid with multiple distributed energy resources
Habibnia, Saba; Mahdavi, Mohammad Saeed; Gharehpetian, Gevork B.; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Vinnikov, Dmitri** IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 p.
https://doi.org/10.1109/PEDG54999.2022.9923216

Novel concept of solar converter with universal applicability for DC and AC microgrids
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; Kouro, Samir IEEE transactions on industrial electronics 2022 / p. 4329-4341 : ill https://doi.org/10.1109/TIE.2021.3086436 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Novel universal power electronic interface for integration of pv modules and battery energy storages in residential dc microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri**; Lindvest, Andre IEEE Access 2023 / p. 30845-30858
https://doi.org/10.1109/ACCESS.2023.3260640

Numerical demonstration of a transactive energy trading model for microgrids
Crasta, Cletus J.; **Mishra, Sambeet**; **Agabus, Hannes**; **Palu, Ivo**; **Wen, Fushuan** IET renewable power generation 2022 / p. 792-806 https://doi.org/10.1049/rpg2.12431 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Nutikas mikrovõrk annab alakasutatud tänavavalgustustaristule uue elu
Alvela, Ain novaator.err.ee 2023 Nutikas mikrovõrk annab alakasutatud tänavavalgustustaristule uue elu

Operation and design of series-resonant current-source full-bridge dc-dc converter
Verbytskyi, Ievgen; **Blinov, Andrei**; **Vinnikov, Dmitri**; Peftitsis, Dimosthenis IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p https://doi.org/10.1109/IECON48115.2021.9589548 Conference Proceedings at Scopus Article at Scopus Article at WOS

Optimal energy management of grid-connected multi-microgrid systems considering demand-side flexibility : a two-stage multi-objective approach
Karimi, Hamid; Gharehpetian, Gevork B.; **Ahmadiahangar, Roya**; **Rosin, Argo** Electric power systems research 2023 / art. 108902
https://doi.org/10.1016/j.epsr.2022.108902

Optimal operation of multi-energy microgrids in presence of hydrogen fueling stations and electric vehicle lots
Mahmoudnezhad, Fayezeh 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 109-110 : ill
https://www.ester.ee/record=b5504019*est

Optimal scheduling of HVACs in islanded residential microgrids to reduce BESS size considering effect of discharge duration on voltage and capacity of battery cells
Sanjareh, Mehrdad Bagheri; Nazari, Mohammad Hassan; Gharehpetian, Gevork B.; **Ahmadiahangar, Roya**; **Rosin, Argo** Sustainable Energy, Grids and Networks 2021 / art. 100424 https://doi.org/10.1016/j.segan.2020.100424 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

An overview and comprehensive comparative evaluation of constant-frequency voltage buck control methods for series resonant DC–DC converters
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri**; **Bakeer, Abualkasim Ahmed Ali** IEEE Open Journal of the Industrial Electronics Society 2021 / p. 65 - 79 https://doi.org/10.1109/OJIES.2020.3048003 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An overview of reliability enhancing methods for energy router for residental application
Rahimpour, Saeed 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school

of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 51-52 : ill https://www.ester.ee/record=b5457278*est

Overview of single-stage isolated AC-DC topologies for interfacing DC and AC grids
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 p. https://doi.org/10.1109/PEDG54999.2022.9923249

Performance analysis of protection methods in residential DC microgrids
Jalakas, Tanel; Banavath, Satish Naik; **Chub, Andrii**; **Roasto, Indrek**; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227388

Performance evaluation of the universal photovoltaic string converter during the operation in DC microgrid environment
Matiushkin, Oleksandr; **Vinnikov, Dmitri**; **Husev, Oleksandr** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill https://doi.org/10.1109/IECON48115.2021.9589473 Conference Proceedings at Scopus Article at Scopus 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 string converter with universal compatibility with AC and DC microgrids = Alalis- ja vahelduvvoolu mikrovõrkudega ühilduv universaalne muundur päikese-elektrijaamadele
Matiushkin, Oleksandr 2022 https://doi.org/10.23658/taltech.27/2022 https://digikogu.taltech.ee/et/Item/b818b684-924e-4fda-b414-fe8b7adba165 https://www.ester.ee/record=b5502078*est

Power smoothing in smart buildings using flywheel energy storage
Plaum, Freddy; **Häring, Tobias**; **Ahmadiahangar, Roya**; **Rosin, Argo** Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 473-477 https://doi.org/10.1109/CPE-POWERENG48600.2020.9161458

Profit maximization by integrating demand response in multiple VPPs optimal scheduling
Asim Amin, M.; Suleman, Ahmad; **Korõtko, Tarmo**; Aziz, Saddam; **Naseer, Muhammad Usman**; Ahmad, Nisar 2022 International Conference on Electrical Engineering and Sustainable Technologies (ICEEST), 14th-15th December, 2022, Lahore, Pakistan : proceedings 2022 / 6 p https://doi.org/10.1109/ICEEST56292.2022.10077867

Provision of ancillary services of a nanogrid in grid connected mode
Helguero Cruz, Jorge Luis; **Rosin, Argo**; Biechl, Helmuth 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818255

Quasi-Z source T-type power converter for PV based commercial and industrial nanogrids with active functions strategy
Barrero-Gonzalez, Fermin; Roncero-Clemente, Carlos; Milanes-Montero, Maria Isabel; Gonzalez-Romera, Eva; Romero-Cadaval, Enrique; **Husev, Oleksandr** Electronics 2020 / art. 1233, 18 p. : ill https://doi.org/10.3390/electronics9081233 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reactive power sharing and voltage control for islanded microgrids at low voltage level
Helguero Cruz, Jorge Luis; Hutter, T.; **Armstorfer, Andreas**; **Rosin, Argo**; **Biechl, Helmuth** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 133-137 : ill http://ise.elnet.ee/record=b2950045~S2*est

Real-time optimal power management for a hybrid energy storage system with battery thermal consideration and DC microgrid current estimation capability
Farrokhi, Ehsan; Ghoreishy, Hoda; **Ahmadiahangar, Roya** Electrical Engineering 2024 https://doi.org/10.1007/s00202-024-02243-9

Recent contributions, future prospects and limitations of interlinking converter control in hybrid AC/DC microgrids
Najafzadeh, Mahdiyyeh; **Ahmadiahangar, Roya**; **Husev, Oleksandr**; **Roasto, Indrek**; **Jalakas, Tanel**; **Blinov, Andrei** IEEE Access 2021 / art. 9312595, p. 7960−7984 https://doi.org/10.1109/ACCESS.2020.3049023 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reinforcement learning based approach for virtual inertia control in microgrids with renewable energy sources
Škiparev, Vjatšeslav; **Belikov, Juri**; **Petlenkov, Eduard** Proceedings of 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 1020-1024 https://doi.org/10.1109/ISGT-Europe47291.2020.9248777

Reinforcement learning based MIMO controller for virtual inertia control in isolated microgrids
Škiparev, Vjatšeslav; **Belikov, Juri**; **Petlenkov, Eduard**; Levron, Yoash 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / art. 184786, 5 p. : ill https://doi.org/10.1109/ISGT-Europe54678.2022.9960447

Research and development of electricity auction for microgrids = Mikrovõrkude elektrioksjoni uurimine ja väljatöötamine
Korõtko, Tarmo 2019 https://digi.lib.ttu.ee/i/?12306

Research and development of energy storage control strategies for residential area microgrids = Energiasalvestite juhtimisstrateegiate uurimine ja arendamine elamupiirkondade mikrovõrkudele
Häring, Tobias 2022 https://doi.org/10.23658/taltech.21/2022 https://digikogu.taltech.ee/et/Item/f8a267fc-bc0b-43be-80d0-b10d151d4174 https://www.ester.ee/record=b5499801*est

A review of communication protocols and control strategies in DC microgrids : an experimental validation focus
Veliz, Antonio; Riffo, Sebastian; Restrepo, Carlos; Rivera, Marco; Garces-Ruiz, Alejandro; **Chub, Andrii**; Gonzalez-Castano, Catalina; Flores-Bahamonde, Freddy 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227442

A review on reallltime simulation and analysis methods of microgrids
Ahmadiahangar, Roya; **Rosin, Argo**; Nabavi Niaki, Ali; **Palu, Ivo**; **Korõtko, Tarmo** International transactions on electrical energy systems 2019 / art. e12106, 16 p. : ill https://doi.org/10.1002/2050-7038.12106 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Review on the control strategies of hybrid nanogrid
Najafzadeh, Mahdiyyeh 19th International Symposium “Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III” : Tartu, Estonia, January 14-17, 2020 2020 / p. 143-144 : ill https://www.ester.ee/record=b5291755*est

Salvestiga mikrovõrk edendab hajustootmist : [TTÜ energeetikateaduskonna doktorandi Tarmo Korõtko sõnul]
Feldmann, Mati TööstusEST 2016 / lk. 20-23 : ill

Search algorithm development for novel electricity auction in microgrids
Korõtko, Tarmo; **Rosin, Argo** 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.2018.8659820

Series-resonant DC-DC interface converter for battery integration into DC microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 307-310 https://doi.org/10.1109/PEMC51159.2022.9962929

Smart transformer universal operation
Ko, Youngjong; **Chub, Andrii**; Costa, Levy; Andresen, Markus; Liserre, Marco 2018 IEEE Applied Power Electronics Conference and Exposition (APEC 2018), San Antonio, Texas, USA, 4-8 March 2018 2018 / p. 1609-1616 : ill https://doi.org/10.1109/APEC.2018.8341232

Stability and eigenvalue sensitivity analysis of a BESS model in a microgrid
Rahmoun, Ahmad; Beg, Nauman; **Rosin, Argo**; **Biechl, Helmuth** 2018 IEEE International Energy Conference (ENERGYCON 2018) : Limassol, Cyprus 3-7 June 2018 2018 / p. 342-347 : ill http://dx.doi.org/10.1109/ENERGYCON.2018.8398792

Stability and eigenvalue sensitivity analysis of a BESS model in a microgrid 4 Author(s)
Rahmoun, Ahmad; Beg, Nauman; **Rosin, Argo**; **Biechl, Helmuth** 2018 5th IEEE International Energy Conference (ENERGYCON), Limassol, Cyprus, June 3-7, 2018 : proceedings 2018 / 6 p.: ill https://doi.org/10.1109/ENERGYCON.2018.8398792

Stability issues with inverter loads and their control in low inertia islanded microgrids
Beg, Nauman; Biechl, Helmuth; **Rosin, Argo** 2020 2nd Global Power, Energy and Communication Conference (GPECOM) 2020 IEEE 2nd Global Power, Energy and Communication Conference (GPECOM) :Online Conference, 20-23 October, 2020 : proceedings 2020 / p. 196-201 : ill https://doi.org/10.1109/GPECOM49333.2020.9247913

Stability issues with network impedances and its mitigation in islanded microgrids
Beg, Nauman; Biechl, Helmuth; **Rosin, Argo** NEIS 2019 : Conference on Sustainable Energy Supply and Energy Storage Systems Hamburg, 19-20 September, 2019 2019 / p. 189-194 https://10times.com/neis-germany https://www.vde-verlag.de/buecher/565152/neis-2019.html

Stochastic energy management for Battery Storage System-based microgrid considering different forecasting models
Zahraoui, Younes; Korõtko, Tarmo; **Rosin, Argo**; **Ahmadiahangar, Roya** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227451

Superconducting energy storage technology-based synthetic inertia system control to enhance frequency dynamic performance in microgrids with high renewable penetration
Magdy, Gaber; **Bakeer, Abualkasim Ahmed Ali**; Alhasheem, Mohammed Protection and Control of Modern Power Systems 2021 / Art. 36 https://doi.org/10.1186/s41601-021-00212-z Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

TalTechi teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks
digi.geenius.ee 2024 TalTechi teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks

Teadlane: tulevikus võiks elamute vahel tekkida elektri mikrovõrk = Ученый: в будущем между жилыми домами может возникнуть микросеть электроэнергии
Kalamees, Targo Elamu 2022 / lk. 12-15 : fot. ; с. 35-37 : фот https://www.ester.ee/record=b1072137*est

Threat modeling of cyber-physical systems - a case study of a microgrid system
Khalil, Shaymaa Mamdouh; **Bahsi, Hayretdin**; **Dola, Henry Ochieng**; **Korõtko, Tarmo**; McLaughlin, Kieran; **Kotkas, Vahur** Computers & Security 2023 / art. 102950, 16 p. : ill https://doi.org/10.1016/j.cose.2022.102950

Topology morphing control with soft transients for multimode series resonant DC-DC converter
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** 2021 IEEE 22nd International Conference of Young Professionals in Electron Devices and Materials (EDM) 2021 / p. 331−336 https://doi.org/10.1109/EDM52169.2021.9507621

Towards modern electricity grids
Pikner, Rando 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 113-116 : ill

Ultrawide voltage gain range microconverter for integration of silicon and thin-film photovoltaic modules in DC microgrids
Chub, Andrii; **Vinnikov, Dmitri**; **Korkh, Oleksandr**; Malinowski, Mariusz; Kouro, Samir IEEE transactions on power electronics 2021 / p. 13763-13778 https://doi.org/10.1109/TPEL.2021.3084918 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Verification of machine learning modelling strategy in microgrid simulations
Häring, Tobias 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 79-80 : ill https://www.ester.ee/record=b5457278*est

Versatile power electronic building block for residential DC microgrids
Vinnikov, Dmitri; **Chub, Andrii**; **Kosenko, Roman**; **Liivik, Elizaveta** 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2018) : Amalfi, Italy, 20-22 June 2018 2018 / p. 735–741 : ill https://doi.org/10.1109/SPEEDAM.2018.8445317

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

Virtual inertia control of isolated microgrids using an NN-based VFOPID controller
Škiparev, Vjatšeslav; **Nosrati, Komeil**; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Levron, Yoash; **Belikov, Juri**; Guerrero, Joseph M. IEEE Transactions on sustainable energy 2023 / p. 1558-1568 https://doi.org/10.1109/TSTE.2023.3237922

Virtual inertia control of microgrids using deep reinforcement learning methods = Mikrovõrkude virtuaalse inertsi juhtimine sügava stiimulõppe meetoditega
Škiparev, Vjatšeslav 2023 https://doi.org/10.23658/taltech.37/2023 https://digikogu.taltech.ee/et/Item/6d924a63-2390-4324-bf1c-00b24111605e https://www.ester.ee/record=b5571224*est

Voltage and reactive power control in islanded microgrids without communication link
Armstorfer, Andreas; Biechl, Helmuth; **Rosin, Argo** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill https://doi.org/10.1109/BEC49624.2020.9277253

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

Väljakutsed energeetikas : [avatud platvorm energiavoogude juhtimiseks]
Korõtko, Tarmo Tehnikamaailm 2024 / lk. 74-75 : fot https://www.ester.ee/record=b1073050*est

Ученый: в будущем между домами может возникнуть микросеть электроэнергии [Online resource]
Trell, Kristel Elamu : Eesti Korteriühistute Liidu infoleht : [vene keeles] 2022 / С. 35-37 https://www.ester.ee/record=b2735076*est