

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

Savard, Christophe; Iakovleva, Emilia; 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](#)

## **Adaptive LINE-P : an adaptive linear energy prediction model for wireless sensor network nodes**

Ahmed, Faisal; **Tamberg, Gert; Le Moullec, Yannick; Annus, Paul** Sensors 2018 / art. 1105, 26 p. : ill

<https://doi.org/10.3390/s18041105> [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/SGES51519.2020.900166>

## **An overview of wide-voltage range isolated DC-DC converters**

**Khan, Salman; Chub, Andrii; Vinnikov, Dmitri** 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 / 6 p

<https://doi.org/10.1109/RTUCON60080.2023.97413144>

## **Analysis and design of ultracapacitor-boosted back-up power supply for trams [Electronic resource]**

**Höimoja, Hardi; Vinnikov, Dmitri; Jalakas, Tanel** EUROCON 2009 : International IEEE Conference devoted to the 150-anniversary of Alexander S. Popov : May 18-23, 2009 Saint Petersburg, Russia 2009 / p. 598-604 [CD-ROM]

<https://ieeexplore.ieee.org/document/5167691>

## **Analysis of a flywheel storage system for ultra-fast charging station of electric vehicles with regard to electric machine design and operational speed range**

Dziechciaruk, Grzegorz; Grzesiak, Lech; Vezzini, Andrea; **Höimoja, Hardi** Przeglad Elektrotechniczny = Electrical Review 2013 / [7] p. : ill [https://www.researchgate.net/publication/288576180\\_Analysis\\_of\\_a\\_flywheel\\_storage\\_system\\_for\\_ultra-fast\\_charging\\_station\\_of\\_electric\\_vehicles\\_with REGARD\\_to\\_electric\\_machine\\_design\\_and\\_operational\\_speed\\_range](https://www.researchgate.net/publication/288576180_Analysis_of_a_flywheel_storage_system_for_ultra-fast_charging_station_of_electric_vehicles_with REGARD_to_electric_machine_design_and_operational_speed_range)

## **Analysis of microgrid configuration effects on energy efficiency**

**Peterson, Kristjan; Ahmadihangar, 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 operation times and electrical storage dimensioning for energy consumption shifting and balancing in residential areas**

**Rosin, Argo; Auväärts, Aivar; Lebedev, Denis** Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 15-20 : ill

[https://www.researchgate.net/publication/268406195\\_Analysis\\_of\\_Operation\\_Times\\_and\\_Electrical\\_Storage\\_Dimensioning\\_for\\_Energy\\_Consumption\\_Shifting\\_and\\_Balancing\\_in\\_Residential\\_Areas](https://www.researchgate.net/publication/268406195_Analysis_of_Operation_Times_and_Electrical_Storage_Dimensioning_for_Energy_Consumption_Shifting_and_Balancing_in_Residential_Areas)

## **Analytical approach for maximizing self-consumption of nearly zero energy buildings- case study : Baltic region**

**Ahmadihangar, Roya; Karami, Hossein; Husev, Oleksandr; Blinov, Andrei; Rosin, Argo; Jonaitis, Audrius; Sanjari, Mohammad Javad** Energy 2022 / art. 121744, 11 p. : ill <https://doi.org/10.1016/j.energy.2021.121744> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Analytical evaluation of indoor energy harvesting technologies for WSNs with FYPsim framework**

**Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul; Mustafa, Y. S. Ashad** 2016 International Conference on Industrial Informatics and Computer Systems (CIICS) : March 13-15, 2016, Dubai, UAE 2016 / [6] p. : ill <https://doi.org/10.1109/ICCSII.2016.7462423>

## **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>

## **Autonomous power supply system for light sensor of illumination measurement test bench**

Teterenok, Oleg; Galkin, Ilya; **Armas, Jelena** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2012 / p. 30-35 : ill

## **Autonomous wireless sensor networks : implementation of transient computing and energy prediction for improved node performance and link quality**

**Ahmed, Faisal; Kervadec, Corentin; Le Moullec, Yannick; Tamberg, Gert; Annus, Paul** The Computer Journal 2019 / p. 820 - 837 <https://doi.org/10.1093/comjnl/bxy101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Battery energy storage systems modelling based on remaining useful lifetime through regression algorithms and binary classifiers**

**Zequera, Rolando Antonio Gilbert** 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 93-94 : ill [https://www.esther.ee/record=b5570906\\*est](https://www.esther.ee/record=b5570906*est)

**Battery size optimization with customer PV installations and domestic load profile**

**Shabbir, Norman; Kütt, Lauri; Astapov, Victor; Jawad, Muhammad; Allik, Alo; Husev, Oleksandr** IEEE Access 2022 / p. 13012-13025 : ill <https://doi.org/10.1109/ACCESS.2022.3147977> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Battery technologies in electric vehicles: improvements in electric battery packs**

**Mohseni, Parham; Husev, Oleksandr; Vinnikov, Dmitri; Strzelecki, Ryszard; Romero-Cadaval, Enrique; Tokarski, Igor** IEEE industrial electronics magazine 2023 / 13 p <https://doi.org/10.1109/MIE.2023.3252265>

**Bidirectional DC-DC converter for modular residential battery energy storage systems**

**Chub, Andrii; Vinnikov, Dmitri; Kosenko, Roman; Liivik, Liisa; Galkin, Ilya** IEEE transactions on industrial electronics 2020 / p. 1944-1955 : ill <https://doi.org/10.1109/TIE.2019.2902828> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Bidirectional isolated current source DAB converter with extended ZVS/ZCS range and reduced energy circulation for storage applications**

**Blinov, Andrei; Kosenko, Roman; Vinnikov, Dmitri; Parsa, Leila** IEEE transactions on industrial electronics 2020 / p. 10552-10563 <https://doi.org/10.1109/TIE.2019.2958291> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Bidirectional soft switching current source DC-DC converter for residential DC microgrids**

**Blinov, Andrei; Kosenko, Roman; Chub, Andrii; Vinnikov, Dmitri** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6059-6064 : ill <https://doi.org/10.1109/IECON.2018.8591103>

**Bidirectional soft-switching current-fed flyback converter with natural clamping for low voltage battery energy storage applications**

**Kosenko, Roman** 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 133-137 : ill [http://www.ester.ee/record=b4650094\\*est](http://www.ester.ee/record=b4650094*est)

**Case study of ECD model accuracy in estimating the cell output voltage and power dissipation**

Rahmoun, Ahmad; Biechl, Helmuth; **Rosin, Argo** Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015 2015 / p. 45-48 : ill

**Common-mode voltage analysis and reduction for the quasi-Z-source inverter with a split inductor**

Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; **Liivik, Elizaveta; Vinnikov, Dmitri**; Blaabjerg, Frede Applied sciences 2020 / art. 8713, 13 p. : ill <https://doi.org/10.3390/app10238713> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Comparative analysis of high power density bidirectional DC-DC converters for portable energy storage applications**

Tytelmaier, Kostiantyn; Zakis, Janis; **Husev, Oleksandr; Vinnikov, Dmitri** Elektronika ir elektrotechnika = Electronics and electrical engineering 2018 / p. 33–41 : ill <https://doi.org/10.5755/j01.eie.24.6.22287> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

**Comparative evaluation of multicoil inductive power transfer approaches based on Z-source network**

Pakhaliuk, Bohdan; **Husev, Oleksandr; Strzelecki, Ryszard; Shevchenko, Viktor; Maksym, Khomenko** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering (UKRCON) 2019 / 5 p <https://doi.org/10.1109/UKRCON.2019.8880002>

**Comparative review of long-term energy storage technologies for renewable energy systems**

**Andrijanovič, Anna; Höimoja, Hardi; Vinnikov, Dmitri** Elektronika ir elektrotechnika = Electronics and electrical engineering 2012 / p. 21-26 : ill

**Comparison of full power and partial power buck-boost DC-DC converters for residential battery energy storage applications**

Hassanpour, Naser; **Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 6 | <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880862>

**Construction of nonlinear feedback strategies for energy storage systems : a stochastic dynamic programming approach**

### Control of energy storage devices under uncertainty using nonlinear feedback systems

Levron, Yoash; **Belikov, Juri** 2020 IEEE Power & Energy Society General Meeting : (PESGM 2020) Montreal, Quebec, Canada, 2-6 August 2020 : proceedings 2020 / p. 95-99 <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9281879>

### Control of ultracapacitors energy exchange [Electronic resource]

**Roasto, Indrek; Lehtla, Tõnu; Möller, Taavi; Rosin, Argo** EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1401-1406 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4778599>

### Controlling a battery energy storage system to support residential photovoltaic installations

Fernao Pires, Vitor; Martins, Joao; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr** 2017 IEEE International Symposium on Industrial Electronics (ISIE) : Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom, 19-21 June, 2017 : proceedings 2017 / p. 1769-1774 : ill <https://doi.org/10.1109/ISIE.2017.8001516>

### 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>

### Cost-effective synthesis of electrodeposited NiCo<sub>2</sub>O<sub>4</sub> nanosheets with induced oxygen vacancies : a highly efficient electrode material for hybrid supercapacitors

Pappu, Samhita; Nanaji, Katchala; **Mandati, Sreekanth**; Rao, Tata Naransinga; **Martha, Surendra K.; Bulusu, Sarada V.** Batteries and supercaps 2020 / p. 1209– 1219 <https://doi.org/10.1002/batt.202000121>

### CZTS monograin membranes for photoelectrochemical fuel production modifications for fuel production

Kouhiisfahani, Elham; **Samieipour, Ali**; Morawietz, Tobias; Kraut, Jürgen; Hiesgen, Renate; **Meissner, Dieter** 5th International Conference on Clean Electrical Power : Renewable Energy Resources Impact : Taormina (Italy), 16th-18th June 2015 2015 / p. 222-225 : ill <http://dx.doi.org/10.1109/ICCEP.2015.7177627>

### CZTS monograin membranes for photoelectrochemical fuel production preparation and characterization

**Samieipour, Ali; Kouhiisfahani, Elham; Galajev, Semjon; Meissner, Dieter** 5th International Conference on Clean Electrical Power : Renewable Energy Resources Impact : Taormina (Italy), 16th-18th June 2015 2015 / p. 212-215 : ill <http://dx.doi.org/10.1109/ICCEP.2015.7177625>

### CZTS monograin membranes for photoelectrochemical water splitting

Kois, Julia; **Galajev, Semjon; Kouhiisfahani, Elham; Neubauer, Christian; Raud, Jaanika; Samieipour, Ali; Taskesen, Teoman; Meissner, Dieter** BEC 16 : the 6th Baltic Electrochemistry Conference : Electrochemistry of Functional Interfaces and Materials : 15th-17th June 2016, Helsinki, Finland 2016 / p. 61 : ill

### CZTS monograin membranes for photoelectrochemical water splitting

**Samieipour, Ali; Kouhiisfahani, Elham; Galajev, Semjon**; Morawietz, Tobias; Hiesgen, Renate; **Meissner, Dieter** Autumn School on Microstructural Characterization and Modelling of Thin-Film Solar Cells : Akademie Schmöckwitz, Berlin, Germany, October 9-14, 2016 2016 / [1] p. : ill

### Day-ahead economical planning of multi-vector energy district considering demand response program

Ghasemi-Marzbali, Ali; Shafiei, Mohammad; **Ahmadihangar, Roya** Applied energy 2023 / art. 120351 <https://doi.org/10.1016/j.apenergy.2022.120351>

### Day-ahead scheduling of electric vehicles and electrical storage systems in smart homes using a novel decision vector and AHP method

Alilou, Masoud; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo**; Anvari-Moghaddam, Amjad Sustainability (Switzerland) 2022 / Art. 11773 <https://doi.org/10.3390/su141811773> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### DC-link capacitor minimization in residential energy router through battery utilization

**Najafzadeh, Mahdiyyeh; Vinnikov, Dmitri; Husev, Oleksandr; Jalakas, Tanel; Roasto, Indrek** 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Florence, Italy, 14-16 July 2021 2021 / p. 1-6 : ill <https://doi.org/10.1109/CPE-POWERENG50821.2021>

### Dimensioning of electricity storage according to small wind turbine power generation and household load patterns

Rosin, Argo; Palu, Ivo; Rosin, Kai; Auväär, Aivar IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5173-5178 : ill [https://www.researchgate.net/publication/261124704\\_Dimensioning\\_of\\_electricity\\_storage\\_according\\_to\\_small\\_wind\\_turbine\\_power\\_generation](https://www.researchgate.net/publication/261124704_Dimensioning_of_electricity_storage_according_to_small_wind_turbine_power_generation)

[and\\_household\\_load\\_patterns](#)

**Distributed storage placement policy for minimizing frequency deviations: A combinatorial optimization approach based on enhanced cross-entropy method**

Machlev, Ram; Chowdhury, Nilanjan Roy; **Belikov, Juri; Levron, Yoash** International Journal of Electrical Power and Energy Systems 2022 / p. 1-14 : ill <https://doi.org/10.1016/j.ijepes.2021.107332> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Droop control implementation in bidirectional step-up/down Partial power converter for battery energy storage applications**

Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 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 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413064>

**Dual-source Linear Energy Prediction (LINE-P) model in the context of WSNs**

Ahmed, Faisal; Tamberg, Gert; Le Moullec, Yannick; Annus, Paul Sensors 2017 / art. 1666, p. 1-22 : ill <http://dx.doi.org/10.3390/s17071666>

**Editorial - IEA-ECES Annex 31 special issue on thermal energy storage**

Kurnitski, Jarek; Haghigiat, Fariborz; Mirzaei, Parham A. Energy and buildings 2015 / p. 1-2

**Effect of hybrid modulation on performance of wireless battery charger operating in CC/CV mode**

Stepins, Deniss; Kathari, N.; Zakis, Janis; **Husev, Oleksandr**; Pakhaluk, Bohdan; Shevchenko, Viktor IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p <https://doi.org/10.1109/IECON48115.2021.9589544>

**The effect of the district heating return temperature reduction on flue gas condenser efficiency**

Lepiksaar, Kertu; Volkova, Anna; Rušeljuk, Pavel; Siirde, Andres Environmental and Climate Technologies 2020 / p. 23–38 <https://doi.org/10.2478/rtuct-2020-0083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electric lighting predictions in the energy calculation methods**

De Luca, Francesco; Simson, Raimo; Voll, Hendrik; Kurnitski, Jarek Improving energy efficiency in commercial buildings and smart communities 2020 / p. 123-141 [https://doi.org/10.1007/978-3-030-31459-0\\_9](https://doi.org/10.1007/978-3-030-31459-0_9)

**Electric vehicle multiport fast charger based on the concept of active power electronic transformer**

Jalakas, Tanel; Roasto, Indrek; Gallardo-Lozano, Javier; Romero-Cadaval, Enrique 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 3 2014 / p. 2168-2176 : ill

**Electrospun nanofibrous materials for energy storage and harvesting**

Krasnou, Illia; Plamus, Tiia; Vassiljeva, Viktoria; Malmberg, Siret; Tarasova, Elvira; Krumme, Andres Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 27 : ill [Molecularly imprinted polymers](#)

**Elektrienergia salvestamine**

Lehtla, Madis Elektrala 2007 / 2, lk. 12-13

**Elektriturg vajab kiiret ajakohastamist. Energeetikaprofessor: „Sõltume täielikult ilmastikust.”**

Hallik, Liina ohtuleht.ee 2023 [Elektriturg vajab kiiret ajakohastamist. Energeetikaprofessor: „Sõltume täielikult ilmastikust.”](#)

**Energeetikaprofessor elektrikriisist: need, kes on sellised poliitikud valinud, saavad praegu vaid ennast süüdistada [Võrguväljaanne]**

Konist, Alar forte.delfi.ee 2022 ["Energeetikaprofessor elektrikriisist: need, kes on sellised poliitikud valinud, saavad praegu vaid ennast süüdistada"](#)

**Energiasalvestid ja -salvestustehnoloogiad**

Rosin, Argo; Link, Siim; Höimoja, Hardi; Drovtar, Imre 2015 [http://www.esther.ee/record=b4484414\\*est](http://www.esther.ee/record=b4484414*est)

**Energiatarbimise juhtimisel on tarkades majades kandev roll**

Rosin, Argo Inseneeria 2014 / lk. 18-19 : ill [https://artiklid.elnet.ee/record=b2672914\\*est](https://artiklid.elnet.ee/record=b2672914*est)

**Energiatehnika ja maailm**

Risthein, Endel 2013 [http://www.esther.ee/record=b2697019\\*est](http://www.esther.ee/record=b2697019*est)

**Energiatõhususe hindamise ja energiasalvestite arvutuse metoodika linna elektertranspordile**

Höimoja, Hardi 2009 [https://www.esther.ee/record=b2559283\\*est](https://www.esther.ee/record=b2559283*est)

**Energy and buildings. Vol. 106, SI, IEA-ECES Annex 31 special issue on thermal energy storage**

2015

### **Energy harvesting technologies - potential application to wearable health-monitoring**

**Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

### **Energy industry waste as a thermochemical energy storage resource**

**Maaten, Birgit; Konist, Alar; Siirde, Andres** 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry & 14th Mediterranean Conference on Calorimetry and Thermal Analysis , 27-30 August 2019, Roma, Italy: CEEC-TAC5 & Medicta2019 : book of abstracts 2019 / p. 81 <http://www.ceec-tac.org/download.php?f=../download/BoA%20CEEC-TAC5%20Medicta2019.pdf>

### **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 and flexibility quantification in buildings**

**Ahmadihangar, Roya; Blinov, Andrei; Pefitsis, Dimosthenis** Distributed energy systems : design, modeling, and control 2023 / p. 249-259 : ill <https://doi.org/10.1201/9781003229124-14>

### **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 facilities impact on flexibility of active distribution networks: stochastic approach**

**Alipour, Manijeh; Gharehpetian, Gevork B.; Ahmadiahangar, Roya; Rosin, Argo; Kilter, Jako** Electric power systems research 2022 / art. 108645 <https://doi.org/10.1016/j.epsr.2022.108645> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Energy storage for 1500 V photovoltaic systems : A comparative reliability analysis of DC-and AC-Coupling**

**He, Jinkui; Yang, Yongheng; Vinnikov, Dmitri** Emerging converter topologies and control for grid connected photovoltaic systems 2021 / p. 323-338 : ill <https://doi.org/10.3390/books978-3-03943-910-2>

### **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

### **Energy storage for mitigating grid congestion caused by electric vehicles : a techno-economic analysis using a computationally efficient graph-based methodology**

**Navon, Aviad; Nitskansky, Ran; Lipman, Eshel; Belikov, Juri; Gal, Nurit; Orda, Ariel; Levron, Yoash** Journal of energy storage 2023 / art. 106324 <https://doi.org/10.1016/j.est.2022.106324>

### **Evaluation of equivalent circuit diagrams and transfer functions for modeling of lithium-ion batteries**

**Rahmoun, Ahmad; Biechl, Helmuth; Rosin, Argo** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2013 / p. 34-39 : ill

### **Exhaust air heat pump heat recovery system for apartment buildings**

**Köiv, Teet-Andrus; Mikola, Alo; Kuusk, Kalle** Lecture Notes in Information Technology. Vol 13, 2012 International Conference on Power and Energy Systems (ICPES 2012), April 12-13, 2012, Hong Kong 2012 / p. 250-255 : ill

### **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; Pimentel, Sergio Pires; Santasheva, Elena** Emerging converter topologies and control for grid connected photovoltaic systems 2021 / P. 121-137 : ill <https://doi.org/10.3390/books978-3-03943-910-2>

### **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

### **Experimental study of new integrated DC/DC converter for hydrogen-based energy storage**

**Vinnikov, Dmitri; Andrijanovič, Anna; Roasto, Indrek; Jalakas, Tanel** 2011 10th International Conference on Environment and Electrical Engineering (EEEIC), 8-11 May 2011, Rome, Italy : conference proceedings 2011 / [4 p.] : ill <https://ieeexplore.ieee.org/document/5874667>

### **Experimental verification of light electric vehicle charger multiport topology**

**Jalakas, Tanel; Zakis, Janis** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 415-418 : ill  
<http://dx.doi.org/10.1109/CPE.2015.723111>

**Extended ZVS-On/ZCS-Off range for CF-DAB converter under DCM operation for residential energy storage systems**  
**Carvalho da Silva, Edivan Laercio**; Cardoso, Rafael; Felipe, Carla Aparecida; Stein, Carlos Marcelo De Oliveira; Bellinaso, Lucas Vizzotto; Michels, Leandro; **Vinnikov, Dmitri** IEEE Access 2023 / p. 119231-119243 <https://doi.org/10.1109/ACCESS.2023.3327219>

**Feasibility investigation for residential battery sizing considering EV charging demand**  
**Shabbir, Norman; Kütt, Lauri; Daniel, Kamran; Astapov, Victor; Raja, Hadi Ashraf; Iqbal, Muhammad Naveed; Husev, Oleksandr** Sustainability 2022 / art. 1079 <https://doi.org/10.3390/su14031079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Feasibility of solar hybrid energy system at a conservation park: Technical, economic, environmental analysis**  
**Sreenath, Sukumaran; Azmi, Azlin Mohd; Ismail, Zubir Ahmad Mohd** Energy reports 2023 / p. 711-719  
<https://doi.org/10.1016/j.egyr.2022.11.065>

**Flexibility investigation of price-responsive batteries in the microgrids cluster**  
**Ahmadihangar, 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 energy storage: principles and possibilities**  
**Höimoja, Hardi** 3rd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 16-21, 2006 2006 / p. 89-92 : ill

**Full soft-switching bidirectional isolated current-fed dual inductor push-pull DC-DC converter for battery energy storage applications [Online resource]**  
**Kosenko, Roman; Zakis, Janis; Blinov, Andrei; Chub, Andrii; Veligorskyi, Oleksandr** 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [8] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763138>

**Full-soft-switching high step-up bidirectional isolated current-fed push-pull DC-DC converter for battery energy storage applications [Online resource]**  
**Kosenko, Roman; Chub, Andrii; Blinov, Andrei** Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 6548-6553 : ill <https://doi.org/10.1109/IECON.2016.7794014>

**Füüsik Jaan Kalda: tuumaenergeetika ohud seonduvad pigem inimliku faktoriga**  
Kalda, Jaan postimees.ee 2023 [Füüsik Jaan Kalda: tuumaenergeetika ohud seonduvad pigem inimliku faktoriga](#)

**FYPSim : an estimation framework for energy harvesting and energy prediction for WSNs**  
**Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul** 2016 IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW) : Nantou County, Taiwan, 27-29 May 2016 2016 / p. 291-292 : ill <https://doi.org/10.1109/ICCE-TW.2016.7521033>

**FYPSim : evaluation tool for solar-based energy harvesting for WSNs**  
**Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul** International journal of bioelectromagnetism 2015 / p. 75-86 : ill

**Grid-forming operation of energy-router based on model predictive control with improved dynamic performance**  
**Najafzadeh, Mahdiyeh; 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](#)

**High gain DC-AC high-frequency link inverter with improved quasi-resonant modulation**  
**Blinov, Andrei; Korkh, Oleksandr; Chub, Andrii; Vinnikov, Dmitri; Peftitsis, Dimosthenis; Norrga, Staffan; Galkin, Ilja** IEEE transactions on industrial electronics 2022 / p. 1465-1476 : ill <https://doi.org/10.1109/TIE.2021.3060657> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High-efficiency partial power converter for integration of second-life battery energy storage systems in DC microgrids**  
**Hassanpour, Naser; Chub, Andrii; Yadav, Neelesh; Blinov, Andrei; Vinnikov, Dmitri** IEEE Open Journal of the Industrial Electronics Society 2024 / 15 p <https://doi.org/10.1109/OJIES.2024.3389466>

**Hooratassalvestitest**  
**Höimoja, Hardi** Keskkonnatehnika 2008 / 3, lk. 30-33 : ill [https://artiklid.elnet.ee/record=b1021845\\*est](https://artiklid.elnet.ee/record=b1021845*est)

**Hüdroakumulatsioonielektrijaamad Eestisse. Küsimusi rohkem kui vastuseid!**

**Ilmus eestikeelne raamat energiasalvestistest**

Ehitaja 2015 / lk. 34 : ill

**Impact of load matching algorithms on the battery capacity with different household occupancies**

Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Biechl, Helmut 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

**Impact of power allocation on device-to-device discovery processes**

Osman, Essam Abdelsalam; Khan, Muhidul Islam; Elgarhy, Osama Mohamed Mostafa; Reggiani, Luca; Mahtab, Muhammad BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p <https://doi.org/10.1109/BEC.2018.8600961>

**Impacts of grid-scale battery systems on power system operation, case of Baltic region**

Ahmadihangar, Roya; Plaum, Freddy; Häring, Tobias; Drovtar, Imre; Korõtko, Tarmo; Rosin, Argo IET Smart Grid 2024 / 19 p <https://doi.org/10.1049/stg2.12142>

**Impedance network-based diode-clamped multilevel inverter voltage balancing with cascaded voltage multiplier**

Ebrahimi, Ali; Babaei, Ebrahim; Mousavi, S. M. J.; Mashinchi Maher, Hamed; 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 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413166>

**Inductor Current Ripple Analysis and Reduction for Quasi-Z-Source Inverters with An Improved ZSVM6 Strategy**

Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; Vinnikov, Dmitri; Blaabjerg, Frede IEEE transactions on power electronics 2021 / p. 7693-7704 <https://doi.org/10.1109/TPEL.2020.3043102> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**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

**Ionically conductive monograin membranes**

Kouhiisfahani, Elham; Samieipour, Ali; Morawietz, Tobias; Handl, Michael; Simolka, Matthias; Hiesgen, Renate; Meissner, Dieter Physical Society of Iran Conference 2015 / p. 208-211 : ill

**Kahes asendis eksponeeritavate vertikaalsete PV-moodulitega heliofarmi kasu**

Tomson, Teolan Keskonnatehnika 2007 / 1, lk. 16-17 : ill [https://artiklid.elnet.ee/record=b1020252\\*est](https://artiklid.elnet.ee/record=b1020252*est)

**Kas alternatiivenergeetikal on tulevikku?**

Lehtla, Tõnu Elektrala 2000 / 3, lk. 30-31 [https://artiklid.elnet.ee/record=b1004203\\*est](https://artiklid.elnet.ee/record=b1004203*est)

**Kinetic energy storage systems**

Hõimoja, Hardi; Lehtla, Madis 8th International Workshop on Research and Education in Mechatronics 2007 : 14-15 June 2007, Tallinn, Estonia 2007 / p. 284-288 : ill

**Konist: energia tootmine peaks olema kui supi keetmine, Strandberg: kui taastuvenergiat õnnestub salvestada, siis energiakriise ei saagi tekkida [Võrguväljaanne]**

Konist, Alar; Strandberg, Marek pealinn.ee 2022 "[Konist: energia tootmine peaks olema kui supi keetmine, Strandberg: kui taastuvenergiat õnnestub salvestada, siis energiakriise ei saagi tekkida](#)"

**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/l/?9116>

**Mathematical modeling and dynamic behavior of a lithium-ion battery system for microgrid application**

Rahmoun, Ahmad; Armstorfer, Andreas; Helguero Cruz, Jorge Luis; Biechl, Helmut; Rosin, Argo 2016 IEEE International Energy Conference (ENERGYCON) : [Leuven, Belgium, 4-8 April 2016] 2016 / [6] p. : ill <https://doi.org/10.1109/ENERGYCON.2016.7513977>

**Mathematical modeling and evaluation of a microgrid demonstrator in island mode**

Armstorfer, Andreas; Beg, Nauman; Rahmoun, Ahmad; Rosin, Argo; Biechl, Helmut 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>

### **Mathematical modeling of a battery energy storage system in grid forming mode**

Rahmoun, Ahmad; Armstorfer, Andreas; Biechl, Helmuth; **Rosin, Argo** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 / [6] p. : ill  
<http://dx.doi.org/10.1109/RTUCON.2017.8125625>

### **Merilin Metsik ja Argo Rosin: mis takistab koduse elektritarbimise juhtimist?**

Metsik, Merilin; Rosin, Argo err.ee 2023 [Merilin Metsik ja Argo Rosin: mis takistab koduse elektritarbimise juhtimist?](#)

### **Mikrovõrk võimaldab energiakasutust tõhusamalt juhtida**

Alvela, Ain TööstusEST 2024 / lk. 26-29 : ill [https://www.esther.ee/record=b4481084\\*est](https://www.esther.ee/record=b4481084*est)

### **Minimal energy storage required for stability of low inertia distributed sources**

Fahima, Aviad; Ofir, Ron; Levron, Yoash; **Belikov, Juri** 2018 5th IEEE International Energy Conference (ENERGYCON), Limassol, Cyprus, June 3-7, 2018 : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/ENERGYCON.2018.8398775>

### **Mitigation of pulsed power load effect on power system using FLC-SMES**

Salama, Hossam S.; **Bakeer, Abualkasim Ahmed Ali**; Vokony, Istvan; **Chub, Andrii** Energy reports 2022 / p. 463-471  
<https://doi.org/10.1016/j.egyr.2021.11.054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modeling battery energy storage systems based on remaining useful lifetime through regression algorithms and binary classifiers**

Gilbert Zequera, Rolando Antonio; Rjabtšikov, Viktor; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants Applied sciences 2023 / art. 7597 <https://doi.org/10.3390/app13137597>

### **Modelling of consumption shares for small wind energy prosumers**

Annuk, Andres; Yaici, Wahiba; **Blinov, Andrei**; Märss, Maito; Trashchenkov, Sergei; Miidla, Peep Symmetry 2021 / art. 647  
<https://doi.org/10.3390/sym13040647> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modelling of electricity spot price and load forecast based new energy management system for households**

Lebedev, Denis; **Rosin, Argo** 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 222-226 : ill

### **Multi-objective optimization of a plate heat exchanger thermal energy storage with phase change material**

Taghavi, Mehrdad; **Ferrantelli, Andrea**; Joronen, Tero Journal of energy storage 2024 / art. 111645  
<https://doi.org/10.1016/j.est.2024.111645>

### **Multiport DC/DC converters for renewable energy systems : general topologies and control methods**

Andrijanovič, Anna Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvija : [abstracts] 2012 / p. 121 : ill

### **Multiport DC/DC converters for renewable energy systems : general topologies and control methods**

Andrijanovič, Anna Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and The 1st Congress of World Engineers and Riga Polytechnical Institute : RTU Alumni, Paper 18 of Subsection of Power Electronic Converters and Applications 2012 / 6 p. : ill

### **New converter topologies for integration of hydrogen based long-term energy storages to renewable energy systems = Uued muundurite topoloogiad vesinikul põhinevate energiasalvestite integreerimiseks taastuvenergiasüsteemidesse**

Andrijanovič, Anna 2013 [http://www.esther.ee/record=b2946972\\*est](https://www.esther.ee/record=b2946972*est)

### **New DC/DC converter for electrolyser interfacing with stand-alone renewable energy system**

Blinov, Andrei; **Andrijanovič, Anna** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvija : [abstracts] 2012 / p. 123 : ill <https://intapi.sciendo.com/pdf/10.2478/v10314-012-0004-1>

### **New DC/DC converter for electrolyser interfacing with stand-alone renewable energy system**

Blinov, Andrei; **Andrijanovič, Anna** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and The 1st Congress of World Engineers and Riga Polytechnical Institute : RTU Alumni, Paper 23 of Subsection of Power Electronic Converters and Applications 2012 / 6 p. : ill <https://intapi.sciendo.com/pdf/10.2478/v10314-012-0004-1>

### **New DC/DC converter for electrolyser interfacing with stand-alone renewable energy system**

**A new five-level switched capacitor-based grid-connected inverter with common grounded feature**

**Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Islam, Md. Rabiul** 2021 IEEE 6th International Conference on Computing, Communication and Automation (ICCCA) 2021 / p. 749-754 <https://doi.org/10.1109/ICCCA52192.2021.9666335>

**New Method for Stabilization of Wind Power Generation Using Energy Storage Technology**

**Andrijanovič, Anna; Egorov, Mikhail; Lehtla, Tõnu; Vinnikov, Dmitri** Agronomy research 2010 / S1, p. 12-24 : ill

**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](#)

**Nord Pool Spot price fluctuation analysis for energy management of household appliances**

**Auväär, Aivar; Rosin, Argo; Müür, Margus; Lebedev, Denis** 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. 91-94 : ill

**Operating wireless sensor nodes without energy storage : experimental results with transient computing**

**Ahmed, Faisal; Ahmed, Tauseef; Muhammad, Yar; Le Moullec, Yannick; Annus, Paul** Electronics 2016 / art. 89, p. 1-14 : ill  
<http://dx.doi.org/10.3390/electronics5040089>

**Operation of the step-up/down bidirectional partial power converter near zero series voltage**

**Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227425>

**Operation possibility of grid connected quasi-Z-source inverter with energy storage and renewable energy generation in wide power range**

Kroics, Kaspars; **Zakis, Janis**; Suzdalenko, Alexander; Husev, Oleksandr; Tytelmaier, Kostiantyn; Khandakji, Kamal 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 564-569 : ill <https://doi.org/10.1109/UKRCON.2017.8100303>

**An optimal control method for storage systems with ramp constraints, based on an on-going trimming process**

Zargari, Noa; Ofir, Ron; Chowdhury, Nilanjan Roy; **Belikov, Juri**; Levron, Yoash IEEE Transactions on Control Systems Technology 2023 / p. 493-496 <https://doi.org/10.1109/TCST.2022.3169906>

**Optimal control of energy storage devices based on Pontryagin's minimum principle and the shortest path method**

Zargari, Noa; Levron, Yoash; **Belikov, Juri** Proceedings of 2019 IEEE PES : Innovative Smart Grid Technologies Europe : (ISGT-Europe), Bucharest Romania, 29 September – 2 October, 2019 2019 / 5 p <https://doi.org/10.1109/ISGTEurope.2019.8905748>

**Optimal control of Lossy energy storage systems with nonlinear efficiency based on dynamic programming and Pontryagin's minimum principle**

Chowdhury, Nilanjan Roy; Ofir, Ron; Zargari, Noa; Baimel, Dmitry; **Belikov, Juri**; Levron, Yoash IEEE transactions on energy conversion 2021 / p. 524-533 <https://doi.org/10.1109/TEC.2020.3004191> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal strategy for comfort-based home energy management system considering impact of battery degradation cost model**

Han, Binghui; **Zahraoui, Younes**; Mubin, Marizan; Mekhilef, Saad; Seyedmahmoudian, Mehdi; Stojcevski, Alex Mathematics 2023 / art. 1333 <https://doi.org/10.3390/math11061333>

**Optimal supercapacitor energy storage system sizing for traction substations**

Sirmelis, Ugis; **Zakis, Janis**; Grigans, Linards 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 592-595 : ill  
<http://dx.doi.org/10.1109/PowerEng.2015.7266383>

**Optimised residential battery energy storage systems**

**Blinov, Andrei** 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. 13-14 [https://www.ester.ee/record=b5291755\\*est](https://www.ester.ee/record=b5291755*est)

**Optimization and implementation of the proportional-resonant controller for grid-connected inverter with significant computation delay**

**Husev, Oleksandr**; Roncero-Clemente, Carlos; **Makovenko, Elena**; Pires Pimentel, Sergio; Vinnikov, Dmitri; Martins, Joao IEEE transactions on industrial electronics 2020 / p. 1201 –1211 <https://doi.org/10.1109/TIE.2019.2898616> [Journal metrics at Scopus](#)

**Optimization of renewable energy for buildings with energy storages and 15-minute power balance**

Savolainen, Rebecka; Lahdelma, Risto Energy 2022 / art. 123046 <https://doi.org/10.1016/j.energy.2021.123046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimized energy scheduling of residential DC building: Case of Nordic climate**

Sidorova, Aleksandra; Blinov, Andrei; Ahmadiahangar, Roya; Vinnikov, Dmitri; Võsa, Karl-Villem; Kurnitski, Jarek 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227437>

**Optimizing EV driving-recharge time ratio a under limited grid connection**

Tsirnomeny, M.; Höimoja, Hardi 7th IET International Conference on Power Electronics, Machines and Drives (PEMD 2014) : Manchester, United Kingdom, 8–10 April 2014. Vol. 2 2014 / p. 903-908 : ill

**Overview of battery energy storage systems readiness for digital twin of electric vehicles**

Gilbert Zequera, Rolando Antonio; Rassölklin, Anton; Vaimann, Toomas; Kallaste, Ants IET Smart Grid 2023 / p. 5-16 <https://doi.org/10.1049/stg2.12101>

**Overview of battery energy storage systems readiness for digital twin of electric vehicles**

Zequera, Rolando Antonio Gilbert 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. 103-104 [https://www.estet.ee/record=b5504019\\*est](https://www.estet.ee/record=b5504019*est)

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

Kroics, Kaspars; Husev, Oleksandr; Tytelmaier, Kostiantyn; Zakis, Janis; Veligorsky, Oleksandr International Journal of Power Electronics and Drive System (IJPEDS) 2018 / p. 1223-1239 : ill <https://doi.org/10.11591/ijpeds.v9.i3.pp1223-1239>

**Overview of bidirectional unfolding converters for battery energy storage systems**

Bubovich, Alexander; Vorobyov, Maxim; Galkin, Ilya; Blinov, Andrei; Giannakis, Andreas 2022 IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 7 p <https://doi.org/10.1109/PEDG54999.2022.9923093>

**A penalty scheme for mitigating uninstructed deviation of generation outputs from variable renewables in a distribution market**

Yang, Jiajia; Dong, Zhao Yang; Wen, Fushuan; Chen, Qixin; Luo, Fengji; Liu, Weijia; Zhan, Junpeng IEEE Transactions on Smart Grid 2020 / p. 4056 - 4069 <https://doi.org/10.1109/TSG.2020.2993049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Performance and feasibility analysis of electricity price based control models for thermal storages in households**

Rosin, Argo; Link, Siim; Lehtla, Madis; Martins, Joao; Drovtar, Imre; Roasto, Indrek Sustainable cities and society 2017 / p. 366-374 : ill <https://doi.org/10.1016/j.scs.2017.04.008>

**Photovoltaic energy yield improvement in two-stage solar microinverters**

Chub, Andrii; Vinnikov, Dmitri; Stepenko, Serhii; Liivik, Elizaveta; Blaabjerg, Frede Emerging converter topologies and control for grid connected photovoltaic systems 2021 / p. 197-213 : ill <https://doi.org/10.3390/books978-3-03943-910-2>

**Possibilities of stabilising fluctuating wind power with cogeneration power plants**

Kuhi-Thalfeldt, Reeli; Valtin, Juhani 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 140-144: ill

**Power converter interfaces for electrochemical energy storage systems - a review**

Fernao Pires, Vitor; Romero-Cadaval, Enrique; Vinnikov, Dmitri; Roasto, Indrek; Martins, Joao Energy conversion and management 2014 / p. 453-475 : ill

**Power Electronic Systems for Efficient and Sustainable Energy Supply**

2019 [https://www.mdpi.com/journal/energies/special\\_issues/power\\_electronic\\_systems\\_for\\_eses](https://www.mdpi.com/journal/energies/special_issues/power_electronic_systems_for_eses)

**Power interfaces and storage selection for an ultrafast EV charging station**

Höimoja, Hardi; Vasiladiotis, M.; Rufer, A. PEMD 2012 : Power Electronics, Machines and Drives : 27-29 March 2012, University Bristol, UK : [proceedings] 2012 / 6 p. : ill

**Power loss model and efficiency analysis of the quasi-Z-Source isolated buck-boost converter with wide input voltage and load range**

Mashinchi Maher, Hamed; Vinnikov, Dmitri; Chub, Andrii; Sidorov, Vadim 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2021 / 8 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316587>

## **Practical use of the energy management system with day-ahead electricity prices**

**Lebedev, Denis; Rosin, Argo** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 394-398 : ill <http://dx.doi.org/10.1109/PowerEng.2015.7266349>

## **Profitability of energy storages for household load scheduling**

**Lebedev, Denis; Rosin, Argo; Auväär, Aivar** 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. 70-75 : ill

## **A promising approach to solid-state hydrogen storage : mechanical nanostructuring synthesis of magnesium by high pressure torsion extrusion**

**Omranpour Shahreza, Babak; Sergejev, Fjodor; Ivanisenko, Julia; Huot, Jacques** Advances in science and technology (volume 134) 2023 / p. 43-51 <https://doi.org/10.4028/p-4ccBoQ>

## **PV module level DC-DC converters with wide input voltage regulation range - implementation challenges and application benefits**

**Chub, Andrii** 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 25-26 : ill  
[https://www.estr.ee/record=b5183874\\*est](https://www.estr.ee/record=b5183874*est)

## **Päikeseelektri tulva aitaks leevedanda kohalik salvestusvõimsus**

Alvela, Ain novaator,err.ee 2023 **Päikeseelektri tulva aitaks leevedanda kohalik salvestusvõimsus** <https://digikogu.taltech.ee/et/item/2c178a6bf918-4932-bd1b-48fefb7fc7aa>

## **Päikesega saab kütta tuba ja vett, ilma paneele võrku ühendamata**

Raamets, Heli maakodu.delfi.ee 2023 [Päikesega saab kütta tuba ja vett, ilma paneele võrku ühendamata](#)

## **Päikesepatareide tulevik**

Krustok, Jüri Tehnikamaailm 2012 / 1, lk. 44-46 : ill [https://artiklid.elnet.ee/record=b2466680\\*est](https://artiklid.elnet.ee/record=b2466680*est)

## **Pööratava heliokollektori kasu**

Tomson, Teolan Keskonnatehnika 2006 / 1, lk. 16-17

## **Quasi-Z-source based string inverter for residential photovoltaic application = Kvaasi-impedants tüüpi allikaga muundur kodumajapidamistes kasutatavatele päikesepaneelidele**

Santashova, Elena 2019 <https://digi.lib.ttu.ee/i/?12312>

## **Real-time optimal power management for a hybrid energy storage system with battery thermal consideration and DC microgrid current estimation capability**

Farrokhi, Ehsan; Ghoreishi, Hoda; Ahmadiahangar, Roya Electrical Engineering 2024 <https://doi.org/10.1007/s00202-024-02243-9>

## **Regenerative passive snubber circuit for high-frequency link converters**

Blinov, Andrei; Verbytskyi, levgen; Peftitsis, Dimosthenis; Vinnikov, Dmitri IEEE journal of emerging and selected topics in industrial electronics 2022 / p. 252 - 257 <https://doi.org/10.1109/JESTIE.2021.3066897>

## **Reinforcement learning based MIMO controller for virtual inertia control in isolated microgrids**

Škiparev, Vyatšeslav; 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 energy storage control strategies for residential area microgrids = Energiasalvestite juhtmisstrateegiate 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.estr.ee/record=b5499801\\*est](https://www.estr.ee/record=b5499801*est)

## **Research and development of storage based energy management system for households = Energiasalvestil põhineva energiahaldussüsteemi uurimine ja väljatöötamine kodumajapidamistele**

Lebedev, Denis 2017 <https://digi.lib.ttu.ee/i/?7387>

## **Residential energy management system to support increased renewable penetration = Taastuvenergiaallikate kasutustihedust toetav energiahaldussüsteem**

Shabbir, Noman 2022 <https://doi.org/10.23658/taltech.37/2022> <https://digikogu.taltech.ee/et/item/2c178a6bf918-4932-bd1b-48fefb7fc7aa>  
[https://www.estr.ee/record=b5503996\\*est](https://www.estr.ee/record=b5503996*est)

## **A review of optimal control methods for energy storage systems - energy trading, energy balancing and electric vehicles**

Machlev, Ram; Zargari, Noa; Chowdhury, N; Belikov, Juri; Levron, Yoash Journal of energy storage 2020 / art. 101787, 16 p  
<https://doi.org/10.1016/j.est.2020.101787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A series partial power converter based on dual active bridge converter for residential battery energy storage system**  
**Hassanpour, Naser; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri; Abdelrahim Abdelghafour, Omar Mohamed** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 15-17 Nov. 2021 : conference proceedings 2021 / p. 1-6 : ill <https://doi.org/10.1109/RTUCON53541.2021.9711725>

**Single-phase power electronics transformer with active functions for smart grid**

Minambres-Marcos, Victor; **Roasto, Indrek**; Romero-Cadaval, Enrique; Strzelecki, Ryszard; Barrero-Gonzalez, Fermin 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 528-533 : ill <http://dx.doi.org/10.1109/CPE.2015.7231131>

**Single-phase qZS-based PV inverter with integrated battery storage for distributed energy generation**

**Husev, Oleksandr; Makovenko, Elena; Vinnikov, Dmitri; Jalakas, Tanel** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 508-513 : ill <https://doi.org/10.1109/CPE.2018.8372570>

**Sissejuhatus energiatehnikasse**

Risthein, Endel 2007 [http://www.ester.ee/record=b2290665\\*est](http://www.ester.ee/record=b2290665*est)

**Skeleton ja Taltech teevad Eestist energia salvestamise tehnoloogiate kompetentsikeskuse [Võrguväljaanne]**  
toostusuudised.ee 2021 ["Skeleton ja Taltech teevad Eestist energia salvestamise tehnoloogiate kompetentsikeskuse"](#)

**Skeleton Technologies ja Tallinna Tehnikaülikool hakkavad koos arendama Eestit energia salvestamise tehnoloogiate kompetentsi- ja arenduskeskuseks [Võrguväljaanne]**

arvutimaailm.ee 2021 <https://www.am.ee/node/7946>

**Soft-switching current-FED flyback converter with natural clamping for low voltage battery energy storage applications**

**Kosenko, Roman; Vinnikov, Dmitri** Technological Innovation for Smart Systems : 8th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2017, Costa de Caparica, Portugal, May 3–5, 2017 : proceedings 2017 / p. 429–436 [http://dx.doi.org/10.1007/978-3-319-56077-9\\_42](http://dx.doi.org/10.1007/978-3-319-56077-9_42)

**Solid electrolytes for fluoride ion batteries : ionic conductivity in polycrystalline tysonite-type fluorides**

Rongeat, Carine; Reddy, M. Anji; **Witter, Raiker**; Fichtner, Maximilian ACS applied materials and interfaces ACS applied materials & interfaces 2014 / p. 2103-2110 : ill <http://dx.doi.org/10.1021/am4052188>

**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>

**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>

**Storage for grid deferral : the case of Israel**

Gal, Nurit; Navon, Aviad; Ben Yosef, Gefen; Levron, Yoash; **Belikov, Juri** 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISGETurope52324.2021.9639938>

**Synthesis of fast fluoride-ion-conductive fluorite-type  $Ba_{1-x}SbxF2+x$  ( $0.1 \leq x \leq 0.4$ ) : a potential solid electrolyte for fluoride-ion batteries**

**Mohammad, Irshad; Chable, Johann; Witter, Raiker; Fichtner, Maximilian; Reddy, M. Anji** ACS applied materials and interfaces ACS applied materials & interfaces 2018 / p. 17249–17256 : ill <https://doi.org/10.1021/acsami.8b04108> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Tallinna tehnikaülikooli energiaruuter loob majadele omaette elektrivõrgu**

Eesti Ekspress 2018 / lk. [23]

**TalTechi ergeetikud esitlesid uudset energiasalvestit**

ehitusuudised.ee 2019 [TalTechi ergeetikud esitlesid uudset energiasalvestit](#)

**TalTechi ergeetikute valmis kodudes taastuvenergia kasutamiseks uudseid lahendusi**  
Blinov, Andrei; Roasto, Indrek Elektrala 2018 / lk. 30 : fot [http://www.esther.ee/record=b1240496\\*est](http://www.esther.ee/record=b1240496*est)

**TalTechi teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks**  
digi.geenius.ee 2024 [TalTechi teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks](#)

**TalTechi teadur tahab viia elektrikulud nulli lähedale**  
arileht.delfi.ee 2023 [TalTechi teadur tahab viia elektrikulud nulli lähedale](#)

**Techno-economic analysis of hydrogen buffers for distributed energy systems**  
Andrijanovitš, Anna 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. 96-100 : ill

**Tesla konkurendiks pürgiv Eesti superakude tootja Skeleton kutsus Tallinna Tehnikaülikooli appi maailma tippkeskust looma [Võrguväljaanne]**  
geenius.ee 2021 ["Tesla konkurendiks pürgiv Eesti superakude tootja Skeleton kutsus Tallinna Tehnikaülikooli appi maailma tippkeskust looma"](#)

**Testing Mg as an anode against BiF<sub>3</sub> and SnF<sub>2</sub> cathodes for room temperature rechargeable fluoride ion batteries**  
Mohammad, Irshad; Witter, Raiker Materials Letters 2019 / p. 159 - 162 <https://doi.org/10.1016/j.matlet.2019.02.052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The role of storage degradation in energy management problems: an optimal control perspective**  
Chowdhury, Nilanjan Roy; Belikov, Juri; Beck, Yuval; Levron, Yoash; Baimel, Dmitry Journal of Energy Storage 2023 / art. 107412, 10 p <https://doi.org/10.1016/j.est.2023.107412>

**Thermal modelling of a control center for flexibility analysis in nZEB nanogrids**  
Häring, Tobias; Rosin, Argo; Kull, Tuule Mall; Helguero Cruz, Jorge Luis; Biechl, Helmuth 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/RTUCON51174.2020.9316568>

**Thermoelectric applications for energy harvesting in domestic applications and micro-production units. Part I : thermoelectric concepts, domestic boilers and biomass stoves**  
Kütt, Lauri; Millar, John; Karttunen, Antti; Karppinen, Maarit Renewable and Sustainable Energy Reviews 2018 / p. 519-544 <https://doi.org/10.1016/j.rser.2017.03.051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A three-phase full soft-switching current-fed naturally clamped DC-DC converter for high-power energy storage applications**  
Chub, Andrii; Kosenko, Roman; Blinov, Andrei 2016 2nd International Conference on Intelligent Energy and Power Systems (IEPS) : Kyiv, Ukraine, June 7-11, 2016 : conference proceedings 2016 / [5] p. : ill <https://doi.org/10.1109/IEPS.2016.7521884>

**Three-port flyback converter for photovoltaic module integration in bipolar DC microgrids**  
Chub, Andrii; Zinchenko, Denys; Vinnikov, Dmitri; Blinov, Andrei 2020 IEEE International Conferenceon Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 909-914 <https://doi.org/10.1109/ICIT45562.2020.9067237> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Torque control in blended antilock braking systems of electric vehicles [Online resource]**  
Vodovozov, Valery; Petlenkov, Eduard; Raud, Zoja; Aksjonov, Andrei BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600978>

**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

**Transient computing pour les réseaux de capteurs sans fil à récolte d'énergie : méthodes d'hibernation et aspects architecturaux**  
Le Moullec, Yannick; Diguet, Jean-Philippe Compas 2016 : Conférence d'informatique en Parallélisme, Architecture et Système 2016 : Lorient, France, 5-8 July 2016 2016 / [8] p

**TTÜ ergeetikud arendavad Eesti esimest energiasalvestit [Võrguväljaanne]**  
Lauri, Vahur novaator.err.ee 2019 / video [TTÜ ergeetikud arendavad Eesti esimest energiasalvestit](#)

**Tuleviku elektriarveid võib vähendada nutikas algoritm [Võrguväljaanne]**  
Harrik, Airika novaator.err.ee 2022 ["Tuleviku elektriarveid võib vähendada nutikas algoritm"](#)

## **Ultrasound assisted mixing of zinc active mass with conductive ceramic additives for Ni-Zn battery**

Petrova, V.; Stoyanova-Ivanova, Angelina; Lilov, P.; Petkov, O.; Ivanova, B.; Karamanova, B.; Stoyanova, A.; **Mikli, Valdek** ECS transactions 2019 / p. 227-234 <https://iopscience.iop.org/article/10.1149/09501.0227ecst> [https://doi.org/10.1149/09501.0227ecst Conference proceeding at Scopus Article at Scopus](https://doi.org/10.1149/09501.0227ecst)

## **Universal galvanically isolated DC-DC converters with topology morphing control = Universaalsed topoloogiat muutva juhtimisega galvaaniliselt isoleeritud alalispingemuundurid**

**Sidorov, Vadim** 2023 <https://doi.org/10.23658/taltech.17/2023> <https://digikogu.taltech.ee/et/item/96dbe736-5976-431c-ae55-7fc2d4ead55e> [https://www.estet.ee/record=b5558654\\*est](https://www.estet.ee/record=b5558654*est)

## **Universal single-phase voltage converter for illumination, heating and ventilation systems**

**Gevorkov, Levon** 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 125-128 : ill

## **Usage models of energy storage systems for optimization of long-term cost to the society**

**Pärl, Ahto** 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 101-102 : ill [https://www.estet.ee/record=b5570906\\*est](https://www.estet.ee/record=b5570906*est)

## **Use of hydrogen and AI as an opportunities to increase energy autarky and create business more sustainable**

Krzos, G.; Piwoni-Krzeszowska, E.; Kowalski, J.; **Prause, Gunnar Klaus** Procedia computer science 2023 / p. 3276-3285 <https://doi.org/10.1016/j.procs.2023.10.321>

## **Utility-scale energy storage systems : a comprehensive review of their applications, challenges, and future directions**

Luo, Wensheng; Stynski, Sebastian; **Chub, Andrii**; Franquelo, Leopoldo G.; Malinowski, Mariusz; **Vinnikov, Dmitri** IEEE industrial electronics magazine 2021 / p. 17-27 <https://doi.org/10.1109/MIE.2020.3026169> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

## **Utility-scale energy storage systems : converters and control**

Stynski, Sebastian; Luo, Wensheng; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE industrial electronics magazine 2020 / p. 32-52 <https://doi.org/10.1109/MIE.2020.3011655> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

## **Value stream mapping for evaluation of load scheduling possibilities in a district heating plant**

**Melsas, Raivo; Rosin, Argo; Drovtar, Imre** Transactions on environment and electrical engineering 2016 / p. 62-67 : ill <http://dx.doi.org/10.22149/tee.v113.34>

## **Value stream mapping for evaluation of load scheduling possibilities in a district heating plant [Electronic resource]**

**Melsas, Raivo; Rosin, Argo; Drovtar, Imre** 2016 IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC) : 7-10 June 2016, Florence, Italy : conference proceedings 2016 / [6] p. : ill. [CD-ROM] <https://doi.org/10.1109/EEEIC.2016.7555696>

## **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>

## **Vertikaalse, kahetasandiliselt toimiva heliofarmi omadused**

**Tomson, Teolan** TEUK VIII & IX : Taastuvate energiaallikate uuringmine ja kasutamine : kaheksanda ja üheksanda konverentsi kogumik 2007 / lk. 65-75 : ill [https://artiklid.elnet.ee/record=b1060792\\*est](https://artiklid.elnet.ee/record=b1060792*est)

## **Wind park cost efficiency increase through direct cooperation with demand side response provider [Online resource]**

**Melsas, Raivo; Rosin, Argo; Drovtar, Imre** 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [5] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763119>

## **Virtsu-Kuivastu liinile hangitakse Eesti esimene elektrilaev, mida peab saama toita nii vesiniku kui diisliga**

Pau, Aivar forte.delfi.ee 2023 [Virtsu-Kuivastu liinile hangitakse Eesti esimene elektrilaev, mida peab saama toita nii vesiniku kui diisliga](#)

## **Virtual energy storage model of ventilation system for flexibility service**

**Maask, Vahur; Rosin, Argo; Korõtko, Tarmo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227482>

## **Voltage balancing circuit for modular step-down DC/DC converter**

Uljans, Austris; **Zakis, Janis** 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 329-332 : ill

## **Väljakutsed energeetikas : [avatud platvorm energiavoogude juhtimiseks]**

**Korõtko, Tarmo** Tehnikamaailm 2024 / lk. 74-75 : fot [https://www.estet.ee/record=b1073050\\*est](https://www.estet.ee/record=b1073050*est)

## **Üksiku kahepoisitsiooniliselt juhitava heliokollektori omadused**

**Tomson, Teolan** Taastuvate energiaallikate uurimine ja kasutamine : seitsmenda konverentsi kogumik : [13. okt. 2005], Tartu, Estonia 2006 / lk. 112-121 : ill

## **Ülikondensaatorid**

**Vinnikov, Dmitri** Elektriala 2002 / 4, lk. 18-19

**В будущем "умный" алгоритм сможет уменьшить счета за электричество [Online resource]**

Harrik, Airika rus.err.ee 2022 "["В будущем "умный" алгоритм сможет уменьшить счета за электричество"](#)"

## **Введение в энерготехнику**

**Risthein, Endel** 2008 [https://www.estr.ee/record=b2412915\\*est](https://www.estr.ee/record=b2412915*est)

**Строительные материалы и изделия с дискретными аккумуляторами тепла и влаги : автореф. дисс. на соиск. учен. степ. канд. техн. наук : (05.23.05)**

Russ, Malvina 1990 [https://www.estr.ee/record=b1562948\\*est](https://www.estr.ee/record=b1562948*est)

**Строительные материалы и изделия с дискретными аккумуляторами тепла и влаги : автореферат ... кандидата технических наук (05.23.05)**

Russ, Malvina 1990 [http://www.estr.ee/record=b1562948\\*est](http://www.estr.ee/record=b1562948*est)

**Строительные материалы и изделия с дискретными аккумуляторами тепла и влаги : дисс. на соиск. учен. степ. канд. техн. наук : 05.23.05 - строительные материалы и изделия**

Russ, Malvina 1990

**Строительные материалы и изделия с дискретными аккумуляторами тепла и влаги : диссертация ... кандидата технических наук : 05.23.05 - строительные материалы и изделия**

Russ, Malvina 1990 [http://www.estr.ee/record=b2479687\\*est](http://www.estr.ee/record=b2479687*est)