

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

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

### **Advances in room temperature fluoride-ion batteries**

**Molaiyan, Palanivel; Mohammad, Irshad; Witter, Raiker** 20th International Conference on Advanced Energy Materials and Research, August 13-14, 2018, Dublin, Ireland : posters 2018 / p. 94 : ill <https://doi.org/10.4172/2576-1463-C1-003>

### **Akkumulaator, tema korrashoid ja laadimine**

Wolberg, A. Tehnika Põllumajanduses 1931 / lk. 165-183 : joon

### **Akkumulaatori hape**

Drogistide Teataja 1930 / 10, 1 lk

### **Akud aiast ja põllult**

**Strandberg, Marek** Inseneria 2016 / lk. [8] [https://artiklid.elnet.ee/record=b2766780\\*est](https://artiklid.elnet.ee/record=b2766780*est)

### **Akkumulaatori korrashoid siis, kui jõuvanker seisab kasutamatu**

Auto 1939 / lk. 239

### **Akkumulaatorite laadimisest**

Haidak, Friedrich Tehnika Kõigile 1940 / lk. 90 : joon

### **Akkumulaatorite laadimisseadmetest**

Haidak, Friedrich Tehnika Kõigile 1938 / lk. 253

### **Akkumulaatoritest**

Haidak, Friedrich Tehnika Kõigile 1938 / lk. 225

### **Analysis of battery charger topologies for an electric vehicle**

**Jalakas, Tanel; Roasto, Indrek; Vinnikov, Dmitri** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 223-226 : ill

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

**Peterson, Kristjan; Ahmadiyahangar, 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/>

### **"Auto süda" - akumulaator ja selle hooldamine**

Schilling, E. Auto 1938 / lk. 21

### **A battery cell balancing method with linear mode bypass current control**

Gallardo-Lozano, Javier; Romero-Cadaval, Enrique; **Jalakas, Tanel; Hõimoja, Hardi** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 245-248 : ill

### **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.ester.ee/record=b5570906\\*est](https://www.ester.ee/record=b5570906*est)

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

**Shabbir, Noman; 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 storage technologies for electrical applications : impact in stand-alone photovoltaic systems**

Akinyele, Daniel; **Belikov, Juri;** Levron, Yoash Energies 2017 / art. 1760, 39 p. : ill <https://doi.org/10.3390/en10111760>

### **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 / p. 55-65 <https://doi.org/10.1109/MIE.2023.3252265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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

### **A case study of optimising energy storage dispatch : convex optimisation approach with degradation considerations**

Vaicys, Jonas; Gudžius, Saulius; Jonaitis, Audrius; Rackiene, Roma; Blinov, Andrei; Peffitsis, Dimosthenis Journal of energy storage 2024 / art. 112941 <https://doi.org/10.1016/j.est.2024.112941>

### **Charge-discharge behaviour of VRLA batteries : model calibration and application for state estimation and failure detection**

**Tenno, Ander**; Tenno, Robert; Suintio, Teuvo Journal of power sources 2001 / 1, p. 42-53

<https://www.sciencedirect.com/science/article/pii/S0378775301008308>

### **Clustering and outlier analysis for key performance indicators in battery energy storage systems applications**

**Gilbert Zequera, Rolando Antonio; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227417>

### **CO2 turned into a nitrogen doped carbon catalyst for fuel cells and metal-air battery applications**

Ratso, Sander; **Walke, Peter; Mikli, Valdek**; Locs, Janis; Šmits, Krišjānis; Vitola, Virginija; Šutka, Andris; Kruusenberg, Ivar Green chemistry 2021 / p. 4435-4445 <https://doi.org/10.1039/D1GC00659B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Comparison between equivalent circuit diagrams and fractional rational functions in the frequency domain for Lithium-ion battery modeling**

Rahmoun, Ahmad; Biechl, Helmuth; **Rosin, Argo** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 55-58 : 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>

### **Compensation topologies in IPT Systems : standards, requirements, classification, analysis, comparison and application**

Shevchenko, Viktor; **Husev, Oleksandr**; Strzelecki, Ryszard IEEE Access 2019 / art. 2937891, p. 120559-120580 : ill <https://doi.org/10.1109/ACCESS.2019.2937891> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Conductive ceramic based on the Bi-Sr-Ca-Cu-O HTSC system as an additive to the zinc electrode mass in the rechargeable Ni-Zn batteries – Electrochemical impedance study**

**Stoyanova-Ivanova, Angelina; Vasev, Alexander; Lilov, Peter; Petrova, Violeta; Marinov, Yordan; Stoyanova, Antonia; Ivanova, Galia; Mikli, Valdek** Comptes Rendus de L'Academie Bulgare des Sciences 2019 / p. 174-181

<https://doi.org/10.7546/CRABS.2019.02.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Considerations regarding the concept of cost-effective power-assist wheelchair subsystems (case study and initial evaluation)**

Galkin, Iļja; Podgornovs, Andrejs; **Blinov, Andrei; Kosenko, Roman** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 71-80 : ill <https://doi.org/10.2478/ecce-2018-0008>

### **DC-DC перетворювач з широким діапазоном забезпечення режиму природної комутації в нулях напруги**

**Blinov, Andrei; Vinnikov, Dmitri**; Ivakhno, Volodymyr; Zamaruev, Volodymyr; Styslo, Bogdan Вісник НТУ "Харківський політехнічний інститут". Серія: Електричні машини та електромеханічне перетворення енергії = Bulletin of the NTU "Kharkiv Polytechnic Institute". Series: Electrical Machines and Electromechanical Energy Conversion 2019 / с. 14-19 : il

<https://doi.org/10.20998/2409-9295.2019.20.02>

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

**Najafzadeh, Mahdiyeh; 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>

### **Design and simulation verification of low power wireless charging battery system for electric bicycle**

Shevchenko, Viktor; **Husev, Oleksandr**; Pakhaliuk, Bohdan; Kondratenko, Igor 2018 IEEE 3rd International Conference on Intelligent Energy and Power Systems (IEPS) 2018 / p. 22-27 <https://doi.org/10.1109/IEPS.2018.8559531>

### **Development and control of energy exchange processes between electric vehicle and utility network = Elektriauto energiasalvesti ja elektrijaotusvõrgu energiavahetusprotsesside uurimine ja juhtimine**

**Mägi, Marek** 2013 [https://www.ester.ee/record=b2966194\\*est](https://www.ester.ee/record=b2966194*est)

## Development of room temperature secondary fluoride ion batteries = Toatemperatuursete fluoriidioon akude väljaarendamine

**Mohammad, Irshad** 2019 <https://digi.lib.ttu.ee/i/?12305> [https://www.ester.ee/record=b5227792\\*est](https://www.ester.ee/record=b5227792*est) Tehnikaülikooli doktorant ehitas uudse energiasalvesti

## Developments and investigations on battery materials

**Witter, Raiker; Irshad, Mohammad; Molaiyan, Palanivel; Oss, A.; Anupöld, T.;** Rongeat, C.; Reddy, M. Anji; Fichtner, M.; **Samoson, Ago** 56th Rocky Mountain Conference on Magnetic Resonance : July 13-17, 2014, Copper Conference Center, Copper Mountain, Colorado, USA 2014 / p. 336

## Disordered lithium-rich oxyfluoride as a stable host for enhanced Li<sup>+</sup> intercalation storage

Chen, Ruiyong; Ren, Shuhua; Knapp, Michael; Wang, Di; **Witter, Raiker;** Fichtner, Maximilian; Hahn, Horst Advanced energy materials 2015 / p. 1-7 : ill <http://dx.doi.org/10.1002/aenm.201401814>

## 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>

## Drumm'i uus aku

Tehnika Kõigile 1936 / lk. 204

## Enam tähelepanu akkumulaatoritele

Rõmmer, E. Tehnika Põllumajanduses 1934 / lk. 18-21

## Energiasalvestid ja -salvestustehnoloogiad

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

## Energy saving estimates for regenerative braking and downhill driving of battery electric vehicles

**Vodovozov, Valery; Rassõlkin, Anton; Lillo, Nikolai; Raud, Zoja** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 237-240 : ill

## Energy storage expansion planning in microgrid

**Ahmadihangar, 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>

## EV battery charging converters with wide output DC voltage range

**Nadeem, Mohammad Mahad; 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/RTUCON60080.2023.10412960>

## 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

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

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

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

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

## First charging cycle model of a lithium-ion battery and its experimental verification

**Peterson, Kristjan** 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. 118-122 : ill

## A full bridge series-series resonant IPT system optimized for charging electric vehicle batteries across an extensive range

Kishan, Dharavath; Vinod, Marupuru; **Chub, Andrii** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604397>

**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>

**Galvaanilised elemendid, nende lülitusviisid ja valik ning kasulikkuse tegur**

Elektrik 1937 / lk. 243-249

**Health and charge indicators for battery energy storage systems in electric vehicles applications**

**Gilbert Zequera, Rolando Antonio; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 427-432 <https://doi.org/10.1109/PEMC51159.2022.9962858>

**Heat storage combined with biomass CHP under the national support policy. A case study of Estonia**

**Volkova, Anna; Latõšov, Eduard; Siirde, Andres** Environmental and Climate Technologies 2020 / p. 171-184

<https://doi.org/10.2478/rtuct-2020-0011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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>

**Ilmus eestikeelne raamat energiasalvestistest**

Ehitaja 2015 / lk. 34 : ill

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

**Häring, Tobias; Ahmadiyahangar, 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](#)

**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>

**Introducing interlayer electrolytes : toward room-temperature high-potential solid-state rechargeable fluoride ion batteries**

**Mohammad, Irshad; Witter, Raiker; Fichtner, Maximilian; Reddy, M. Anji** ACS Applied Energy Materials 2019 / p. 1553-1562 : ill

<https://doi.org/10.1021/acsaem.8b02166> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Isolated DC/DC converter based voltage measuring system for series connected supercapacitor cells**

Sirmelis, Ugis; Grigans, Linards; Kroics, Kaspars; **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. 443-446 : ill <http://dx.doi.org/10.1109/CPE.2015.7231116>

**Juhiseid akude laadijatele**

Pukk, M. Raadio 1938 / lk. 18-19

**Juhtnõõrid tinaakumulaatorite hooldamiseks**

Prükkel, R. Sõdur 1937 / lk. 859-861

**Julienne akumulaatorid, kui kõige kohasemad laevadel teenimiseks määratud akumulaatorid**

Mere-Tehnika 1921 / lk. 183-185 : joon

**Keemilised vooluallikad : märjad ja kuivad elemendid**

Elektrik 1936 / lk. 118-119 : joon

**Kodumaa kuivade elementide omadused**

**Reinvald, Otto; Liefländer, Artur** Tallinna Tehnikumi juures asuva Riiklise Katsekoja Teated 1925 / lk. 80-90 : joon

[https://www.ester.ee/record=b1321214\\*est](https://www.ester.ee/record=b1321214*est)

**Korraldage akulaadimisjaamu veskite juurde**

Pukk, M. Eesti Veski 1938 / lk. 22

**Kui elektrivõrku pole käepärast, ehk, Vântame mobiiltelefoni aku täis**

**Jaanus, Martin** Praktiline Arvutikasutaja 2007 / 6, lk. 36-37 : ill [https://artiklid.elnet.ee/record=b1058798\\*est](https://artiklid.elnet.ee/record=b1058798*est)

## **Kuiv-alaldaja mõõtetehnikas**

Freimuth, H. Tehnika Kuukiri 1944 / lk. 109-111 : joon

## **Lahendus liitiumikriisile, tulevasele liitiumikriisile**

**Strandberg, Marek** Inseneria 2016 / lk. 8 : fot [https://artiklid.elnet.ee/record=b2755207\\*est](https://artiklid.elnet.ee/record=b2755207*est)

## **Lifetime-oriented control strategies for hybrid energy storage systems in an islanded microgrid**

**Cinay, Nazli; Häring, Tobias; Rosin, Argo; Korõtko, Tarmo; Ahmadiyahangar, 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 Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **Liitiumipuudust saab ravida magneesiumiga**

**Strandberg, Marek** Inseneria 2016 / lk. [7] : ill [http://www.ester.ee/record=b2336521\\*est](http://www.ester.ee/record=b2336521*est) [https://artiklid.elnet.ee/record=b2776172\\*est](https://artiklid.elnet.ee/record=b2776172*est)

## **Lithiation-driven structural transition of VO<sub>2</sub>F into disordered rock-salt Li<sub>x</sub>VO<sub>2</sub>F**

Chen, Ruiyong; Maawad, Emad; Knapp, Michael; Ren, Shuhua; Beran, Premysl; **Witter, Raiker**; Hempelmann, Rolf RSC advances 2016 / p. 65112-65118 : ill <http://dx.doi.org/10.1039/c6ra14276a>

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

**Rahmoun, Ahmad; Armstorfer, Andreas; Helguero Cruz, Jorge Luis; Biechl, Helmuth; 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>

## **Mehaaniline alaldaja, selle töötamine ja reguleerimine**

Auto 1938 / lk. 159 : joon

## **Metallide keetmine elektri kaartulega ja tarvitavad vooluallikad**

Ottenson, A. Tehnika Ajakiri ja Auto 1932 / lk. 217-221 : joon., fot

## **Miks liitiumakud süttivad? Süüdi on ohtlikud laadijad, löökidest tekkinud mõrad, praak ja kuumus**

Lõugas, Hans; **Rosin, Argo** Eesti Päevaleht 2015 / lk. 18 <https://epl.delfi.ee/artikkel/72276075/miks-liitiumakud-syttivad-suudi-on-ohtlikud-laadijad-lookidest-tekkinud-morad-praak-ja-kuumus>

## **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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Multiscale investigation of sodium-ion battery anodes: analytical techniques and applications**

Schäfer, David; Hankins, Kie; Allion, Michelle; Krewer, Ulrike; Karcher, Franziska; Derr, Laurin; Schuster, Rolf; Maibach, Julia; Mück, Stefan; Kramer, Dominik; **Samson, Ago; Witter, Raiker** Advanced energy materials 2024 / 37 p <https://doi.org/10.1002/aenm.202302830>

## **Mõnda kuivelemendist ja tema valmistamisest**

Tammin-Nuter, K. Tee ja Tehnika 1929 / lk. 57-60

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

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

## **Novel quasi-Z-source derived inverter with unfolding circuit and battery storage**

**Makovenko, Elena; Husev, Oleksandr; Vinnikov, Dmitri** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 431-436 : ill <https://doi.org/10.1109/CPE.2018.8372557>

## **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>

## **Optimal rotating receiver angles estimation for multicoil dynamic wireless power transfer**



Pakhaliuk, Bohdan; Shevchenko, Viktor; Mućko, Jan; **Husev, Oleksandr**; Lukianov, Mykola; Kołodziejek, Pjotr; Strzelecka, Natalia; Strzelecki, Ryszard Energies 2021 / art. 6144, 15 p. : ill <https://doi.org/10.3390/en14196144> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Optimal 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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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)

### **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.ester.ee/record=b5504019\\*est](https://www.ester.ee/record=b5504019*est)

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

**Gilbert Zequera, Rolando Antonio; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants** IET Smart Grid 2023 / p. 5-16 <https://doi.org/10.1049/stg2.12101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Kroics, Kaspars; **Husev, Oleksandr**; Tytelmaier, Kostiantyn; **Zakis, Janis**; Veligorskyi, 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 development in the field of energy exchange between electric vehicles and utility network**

**Mägi, Marek** 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. 123-124 : ill

### **Overview of simplified mathematical models of batteries**

**Melentjev, Sergei; Lebedev, Deniss** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 231-235 : ill

### **Power Electronics and Energy Management for Battery Storage Systems**

2022 <https://doi.org/10.3390/books978-3-0365-5278-1>  
[https://www.mdpi.com/journal/energies/special\\_issues/peem\\_for\\_battery\\_storage\\_systems](https://www.mdpi.com/journal/energies/special_issues/peem_for_battery_storage_systems)

### **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>

### **Quasi single-stage three-phase filterless converter for EV charging applications**

**Blinov, Andrei; Zinchenko, Denys**; Rabkowski, Jacek; Wrona, Grzegorz; **Vinnikov, Dmitri** IEEE Open Journal of Power Electronics 2022 / p. 51-60 : ill <https://doi.org/10.1109/OJPEL.2021.3134460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Raadio elektrivoolu allikas - akumulaator**

Uus Talu 1938 / 11, lk. 363-370; 12, lk. 398-403

### **Raadioakumulaatori laadimisest**

Haidak, Friedrich Tehnika Kõigile 1937 / lk. 351

### **Raudnikkel-akumulaatorid**

Uus Talu 1939 / lk. 22-25 : joon

### **Raudnikkel-akumulaator ja tema hooldamine**

Brückel, R. Auto 1936 / lk. 55-56 : joon

### **Raudnikkel-akumulaator ja tema hooldamine**

Brückel, R. Sama // Tehnika Kõigile (1936) 8, lk. 236-238 : joon

### **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; **Ahmadihangar, Roya** Electrical Engineering 2024 <https://doi.org/10.1007/s00202-024-02243-9>

**Reservtoite akumulaatorite sümposium**  
**Oorn, Arvo** Pingering 1998 / 17. apr., lk. 4

**Sekundaarelemendid ja -patareid, mis sisaldavad leeliselisi või teisi mittehappelisi elektrolüüte. Liitumpatareid ja sekundaarelemendid kaasaskantavatele rakendustele = Secondary cells and batteries containing alkaline or other non-acid electrolytes. Secondary lithium cells and batteries for portable applications (IEC 61960:2011)**

2012 [https://www.ester.ee/record=b2746738\\*est](https://www.ester.ee/record=b2746738*est)

**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>

**A Series partial power converter based on dual active bridge converter for residential battery energy system**

**Hassanpour, Naser** 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. 65-66 : ill [https://www.ester.ee/record=b5457278\\*est](https://www.ester.ee/record=b5457278*est)

**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>

**Simulation and estimation of electrochemical processes in maintenance-free batteries with fixed electrolyte**

**Tenno, Ander** 2004 [https://www.ester.ee/record=b1994218\\*est](https://www.ester.ee/record=b1994218*est)

**Single switch multi-winding wireless power transfer system based on Z-source network**

**Kroics, Kaspars; Husev, Oleksandr; Pakhaliuk, Bohdan** 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2465-2474 : ill <https://ieeexplore.ieee.org/document/8515602>

**Sliding mode control based on super twisting algorithm for single-stage on-board charger**

**Guler, Naki; Komurcugil, Hasan; Bayhan, Sertac; Vinnikov, Dmitri; Blinov, Andrei** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227481>

**SOC estimation for Li-Ion batteries based on equivalent circuit diagrams and the application of a Kalman filter**

**Rahmoun, Ahmad; Biechl, Helmuth; Rosin, Argo** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 273-276 : ill [https://www.researchgate.net/publication/261507418\\_SOC\\_estimation\\_for\\_Li-ion\\_batteries\\_based\\_on\\_equivalent\\_circuit\\_diagrams\\_and\\_the\\_application\\_of\\_a\\_Kalman\\_filter](https://www.researchgate.net/publication/261507418_SOC_estimation_for_Li-ion_batteries_based_on_equivalent_circuit_diagrams_and_the_application_of_a_Kalman_filter)

**Spent Li-Ion battery graphite turned into valuable and active catalyst for electrochemical oxygen reduction**

**Liivand, Kerli; Kazemi, Maryam; Walke, Peter; Mikli, Valdek; Macdonald, Digby D.; Kruusenberg, Ivar** ChemSusChem 2021 / p. 1103-1111 <https://doi.org/10.1002/cssc.202002742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**State of charge and health estimation of batteries for electric vehicles applications: key issues and challenges**

**Singh, Pratap Samarendra; Singh, Praveen Prakash; Singh, Niwas Sri; Tiwari, Prabhakar** Global Energy Interconnection 2021 / 13 p. : ill <https://doi.org/10.1016/j.gloi.2021.05.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Stochastic energy management for Battery Storage System-based microgrid considering different forecasting models**

**Zahraoui, Younes; Korõtko, Tarmo; Rosin, Argo; Ahmadiyahangar, 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>

**Structure and electrochemical properties of Na<sub>2</sub>xV<sub>3</sub>P<sub>2</sub>O<sub>13</sub> (x = 0 and 1): a promising cathode material for sodium-ion batteries**

**Reddy, M. Anji; Euchner, Holger; Witter, Raiker; Clemens, Oliver** Journal of materials chemistry A 2018 / p. 6947-6958 : ill <https://doi.org/10.1039/C8TA00588E> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A study of different aspects for building a thermal model for lithium-ion cells**

**Rahmoun, Ahmad; Biechl, Helmuth; Rosin, Argo** 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. 47-52 : ill

**Sülearvuti aku**

**Jaanus, Martin** Praktiline Arvutikasutaja 2008 / 1, lk. 32-35 : ill [https://artiklid.elnet.ee/record=b1061026\\*est](https://artiklid.elnet.ee/record=b1061026*est)

**Synthesis of fast fluoride-ion-conductive fluorite-type Ba<sub>1-x</sub>Sb<sub>x</sub>F<sub>2+x</sub> (0.1 ≤ x ≤ 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](#)

### 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 use of high-temperature superconducting cuprate as a dopant to the negative electrode in Ni-Zn batteries

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; **Mikli, Valdek** Bulgarian chemical communications 2015 / p. 221-228 : ill

### 3D alumina-graphene hybrid nanofibers as a binder-free cathode for rechargeable LIBS batteries

**Taleb, Masoud;** **Ivanov, Roman;** **Hussainova, Irina** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 191-196 : ill <https://www.scientific.net/KEM.799.191> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.191> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### A three-phase unfolding-based PFC topology with two inductors for electric vehicles battery charging

**Mohseni, Parham;** **Husev, Oleksandr;** **Vinnikov, Dmitri;** **Matiushkin, Oleksandr;** **Vosoughi Kurdkandi, Naser** 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/RTUCON60080.2023.10413182>

### Tina-akumulaatorite remont

Elektrik 1936 / 8, lk. 144-146; 9/10, lk. 174-176 : joon., fot

### Tinaakumulaatori käsitlemisest

Vildma, K. Tehnika Kõigile 1936 / lk. 169-170 : joon

### Tinaakumulaatorid arenevad

Prükkel, R. Tehnika Kõigile 1936 / lk. 204

### Tinaakumulaatorite hooldamise juhtnõid

Prükkel, R. Tehnika Kõigile 1937 / lk. 98-99

### Tuuledünamoga akumulaatorilaadija

Davidov, E. Raadio 1931 / 29, lk. 325-326; 30, lk. 333-335 : joon

### 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](#)

### Uudne laadija võimaldaks odavamalt elektriautode laadimisvõrku tihendada [Võrguväljaanne]

Oidermaa, Jaan-Juhan novaator.err.ee 2022 [Uudne laadija võimaldaks odavamalt elektriautode laadimisvõrku tihendada](#)

### Uus akumulaator

Tehnika Kõigile 1937 / lk. 69

### Valesti ära visatud patareid ohustavad kõiki. Need võivad süttida, plahvatada ja mürgitada

Kontro, Kristin Eesti Päevaleht 2023 / Lk. 18-19 [https://dea.digar.ee/article/eestipaevaleht/2023/01/04/19.3\\_Valesti\\_ära\\_visatud\\_patareid\\_ohustavad\\_kõiki.\\_Need\\_võivad\\_süttida.\\_plahvatada\\_ja\\_mürgitada](https://dea.digar.ee/article/eestipaevaleht/2023/01/04/19.3_Valesti_ära_visatud_patareid_ohustavad_kõiki._Need_võivad_süttida._plahvatada_ja_mürgitada)

### Vanemteadur: rohepööre toob kaasa metallisõltuvuse

Oidermaa, Jaan-Juhan novaator.err.ee 2023 [Vanemteadur: rohepööre toob kaasa metallisõltuvuse](#)

### Veidi akumulaatoreist ja nende laadimisest

**Kroon, A.** Elektrik 1936 / lk. 99-100 : joon

### Wireless charging station design for electric scooters : case study analysis

**Shevchenko, Viktor;** **Pakhaliuk, Bohdan;** **Husev, Oleksandr;** **Vinnikov, Dmitri;** **Strzelecki, Ryszard** Energies 2024 / art. 2472



<https://doi.org/10.3390/en17112472>

**Ärge nõudke võimatut auto akumulaatorit!**

Auto 1937 / lk. 23

**Üldotstarbelised plii-happeakud (ventiilreguleeritavad). Osa 1, Üldnõuded, funktsionaalsed omadused.  
Katsetamismeetodid = General purpose lead-acid batteries (valve-regulated types). Part 1, General requirements,  
functional characteristics. Methods of test (IEC 61056-1:2002)**

2012 [https://www.ester.ee/record=b2746930\\*est](https://www.ester.ee/record=b2746930*est)

**Подвесной лодочный мотор с питанием от литиевого аккумулятора**

**Gavrilov, Aleksei** Радио 2016 / с. 44-45 : ил [http://www.ester.ee/record=b1097423\\*est](http://www.ester.ee/record=b1097423*est)