

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](#)

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 Inseneeria 2016 / lk. [8]

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 charger load-following controller for over-voltage and under-voltage conditions

Shahid, Arqum; Manzoor, Sajjad; Khan, Uzair; Majeed, Afraz Hussain; Khan, Ilyas; Mohamed, Abdullah Frontiers in Energy Research 2023 / art. 1239271 <https://doi.org/10.3389/fenrg.2023.1239271>

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.eester.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 / 13 p <https://doi.org/10.1109/MIE.2023.3252265>

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

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 l <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, Ilja; 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; Styshlo, 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, 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>

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

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

Mohammad, Irshad 2019 <https://digi.lib.ttu.ee/i/?12305> [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⁺ 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

Elektriline paadi päramootor liitiumaku toitega

Gavrilov, Aleksei Kalastaja 2016 / lk. 76-79 : ill. ; 82, lk. 76 http://www.ester.ee/record=b1072320*est

Enam tähelepanu akkumulaatoritele

Römmer, 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

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

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

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

Korraldage akulaadimisjaamu veskite juurde

Pukk, M. Eesti Veski 1938 / lk. 22

Kui elektrivõrku pole käepärast, ehk, Vantame mobiiltelefoni aku täis

Jaanus, Martin Praktiline Arvutikasutaja 2007 / 6, lk. 36-37 : ill 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 Inseneeria 2016 / lk. 8 : fot

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

Cinay, Nazli; Häring, Tobias; Rosin, Argo; Korötko, Tarmo; Ahmadihangar, 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 Inseneeria 2016 / lk. [7] : ill http://www.ester.ee/record=b2336521*est

Lithiation-driven structural transition of VO₂F into disordered rock-salt LixVO₂F

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 aladaja, selle töötamine ja reguleerimine

Auto 1938 / lk. 159 : joon

Metallide keetmine elektri kaartulega ja tarvitatavad vooluallikad

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

Miks liitumakud süttivad? Süüdi on ohtlikud laadijad, löökidest tekkinud mõrad, praak ja kuumus

Lõugas, Hans; **Rosin, Argo** Eesti Päevaleht 2015 / lk. 18

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>

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; **Samoson, Ago; Witter, Raiker** Advanced energy materials 2024 / 37 p
<https://doi.org/10.1002/aenm.202302830>

Mõnda kuivalemendist 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 taastuenergiastesüsteemidesse

Andrijanovič, Anna 2013 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, Piotr; 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>

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

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

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>

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

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 / 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 Pinger 1998 / 17. apr., lk. 4

Sekundaareleendid ja -patareid, mis sisaldavad leeliseli või teisi mittehappelisi elektrolüüte. Liitumpatareid ja sekundaareleendid 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

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

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

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

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; Korötko, Tarmo; Rosin, Argo; Ahmadihangar, 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 Na₂xV₃P₂O₁₃ (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

Synthesis of fast fluoride-ion-conductive fluorite-type Ba_{1-x}Sb_xF_{2+x} (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 BiF₃ and SnF₂ 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 LiIS batteries

Taleb, Masoud; Ivanov, Roman; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 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://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-akkumulaatorite 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 juhtnõõrid

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](#)

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

Ärge nõudke võimatut auto akumulaatorilt!

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

Подвесной лодочный мотор с питанием от литиевого аккумулятора

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