Aasta insener 2021 Argo Rosin: rohepööre tõstab inseneride palgad edetabelite tippu
Rosin, Argo Director. Inseneeria 2022 / lk. 22-29 : fot https://www.ester.ee/record=b1519314*est https://director.ee/2022/01/28/aasta-insener-2021-argo-rosin-rohepoore-tostab-inseneride-palgad-edetabelite-tippu/

Aasta insener 2024 on Siim Heering
toostusest.ee 2024 https://toostusest.ee/uudis/2024/12/16/aasta-insener-2024-on-siim-heering/ https://teadus.postimees.ee/8155510/tanavune-aasta-insener-tegeleb-mehitamata-lennuvahenditega

Aasta teadlane: alalisvool aitab parandada hoone energiatõhusust 18 protsenti
Alvela, Ain postimees.ee 2023 Aasta teadlane: alalisvool aitab parandada hoone energiatõhusust 18 protsenti

Aasta tehnikaüliõpilane 2021 on Karolina Kudelina
Vaimann, Toomas Meie Leht 2021 / lk. 4 http://narva-joesuu.ee/documents/2032926/30038466/Meie_Leht_DETSEMBER_2021_EST.pdf/6812d56d-dce2-4684-87ee-72639332075f

Aasta tehnikaüliõpilane Brenda Pent: inseneeria on naiste ala ja ülipõnev
Kamps, Mari visionest.institute 2024 Aasta tehnikaüliõpilane Brenda Pent: inseneeria on naiste ala ja ülipõnev

ABB YuMi high-speed pick and place game in action
Zahavi, Ali; Al Afrange, Fadi; Najafi Haeri, Shahriar; Ajeevan, Udith; **Chamara Liyanage, Dhanushka** Proceedings of the 29th International DAAAM Symposium "Intelligent Manufacturing & Automation" : 24-27th October 2018, Zadar, Croatia 2018 / p. 1216-1221 : ill https://doi.org/10.2507/29th.daaam.proceedings.176

AC losses analysis approaches for electric vehicle motors with hairpin winding configuration
Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Marques Cardoso, Antonio J.; **Kallaste, Ants**; Belahcen, Anouar; **Vaimann, Toomas** IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-4 : ill https://doi.org/10.1109/IECON48115.2021.9589339 Conference Proceedings at Scopus Article at Scopus Article at WOS

AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines
Tiismus, Hans; **Kallaste, Ants**; Belahcen, Anouar; **Tarraste, Marek**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Asad, Bilal**; **Ghahfarokhi, Payam Shams** Energies 2021 / 13 p. : ill https://doi.org/10.3390/en14051241 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

Accuracy analysis of dual active bridge simulations under different integration methods
Arena, Gabriele; **Vinnikov, Dmitri**; **Chub, Andrii**; de Carne, Giovanni 2022 AEIT International Annual Conference (AEIT) : October 3-5, 2022 2022 / p. 1-6 https://doi.org/10.23919/AEIT56783.2022.9951711

Accuracy analysis of selected time series and machine learning methods for smart cities based on Estonian electricity consumption forecast
Häring, Tobias; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Korõtko, Tarmo**; Biechl, Helmuth 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 425-428 : ill https://doi.org/10.1109/CPE-POWERENG48600.2020.9161690

Achieving of Magnus effect with Agros Suite
Lukin, Aleksandr; **Demidova, Galina**; **Rassõlkin, Anton** Periodica polytechnica electrical engineering and computer science 2021 / p. 131-137 : ill https://doi.org/10.3311/PPee.17743 Journal metrics at Scopus Article at Scopus

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

Active and reactive power control of DFIG using optimized fractional order-PI controller
Javed, Umar; Arshad, Muhammad Asad; **Shabbir, Noman**; **Kütt, Lauri**; **Rassõlkin, Anton** 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 398-404 https://doi.org/10.1109/PEMC48073.2021.9432608

Active blended learning as a tool focused on industry 5.0 at EuroTeQ Engineering University

Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** 2024 IEEE Global Engineering Education Conference (EDUCON) : proceedings 2024 / p. 1-5 https://doi.org/10.1109/EDUCON60312.2024.10578688

Active blended learning engineering students : a case study
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Education Sciences 2022 / art. 344 https://doi.org/10.3390/educsci12050344 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Active blended learning of industry 5.0-oriented sustainable power engineering specialists
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** First International Conference on Sustainable Energy Education (SEED 2024) : proceedings 2024 / p. 719-725 https://doi.org/10.4995/SEED2024.2024.19007

Active clamped dual current-fed bidirectional DC-DC converter for wide voltage range applications
Chauhan, Sachin; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p https://doi.org/10.1109/RTUCON62997.2024.10830838

Active front end converters with voltage balancing capability
Verbytskyi, Ievgen; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri**; **Kyselova, Anna** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p https://doi.org/10.1109/RTUCON62997.2024.10830902

Active learning of students with diverse goals and backgrounds in the light of Industry 4.0 requirements
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Proceedings of the 2022 IEEE Global Engineering Education Conference (EDUCON) 2022 / p. 351-355 https://doi.org/10.1109/EDUCON52537.2022.9766564

Actual impact of heat pumps to energy performance of apartment buildings in Estonia
Reino, Arbo; Hamburg, Arvi 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/10.1109/RTUCON48111.2019.8982370

Adaptive frequency-based power management for off-grid hybrid photovoltaic converters
Gonschorowsk, Ezequiel; Cardoso, Rafael; **Carvalho da Silva, Edivan Laercio**; **Stein, Carlos Marcelo De Oliveira**; Carati, Emerson Giovani; Denardin, Gustavo Weber; da Costa, Jean Patric Eletronica de potencia 2024 / art. e202440 https://doi.org/10.18618/REP.e202440

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

ADCS development for student CubeSat satellites - TalTech case study
Rassõlkin, Anton; **Vaimann, Toomas**; **Org, Peeter**; **Leibak, Alar**; **Gordon, Rauno**; **Priidel, Eiko** Proceedings of the Estonian Academy of Sciences 2021 / p. 268-285 : ill https://doi.org/10.3176/proc.2021.3.06 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Additive design possibilities of electrical machines
Kallaste, Ants; **Vaimann, Toomas**; **Rassõlkin, Anton** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill https://doi.org/10.1109/RTUCON.2018.8659828

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

Additive manufacturing of electrical machines
Kallaste, Ants 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. 61-62 : ill https://www.ester.ee/record=b5183874*est

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

Additive manufacturing of prototype axial flux switched reluctance electrical machine
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 4 p. : ill https://doi.org/10.1109/IWED52055.2021.9376337

Additively manufactured and topology optimized heatsink for a propulsion motor
Sarap, Martin; **Kallaste, Ants**; **Vaimann, Toomas**; Ghahfarokhi, Payam Shams 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p https://doi.org/10.1109/ICEM60801.2024.10700108

Address from main organizers
Vinnikov, Dmitri; **Liivik, Elizaveta** 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. [3]
https://www.ester.ee/record=b5291755*est

Address from main organizers
Vinnikov, Dmitri; **Liivik, Elizaveta** 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. [3]
https://www.ester.ee/record=b5183874*est

Addressing cross-coupling issues in magnetically integrated three-port DC-DC converters
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; Sohail, Umer; **Chub, Andrii** 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 5 p https://doi.org/10.1109/PEMC61721.2024.10726373

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars and eccentricity faults
Petrov, Aleksei; Plokhov, Igor; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar** Proceeding of the 2017 IEEE 11th International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) : [Tinos (Greece), August 29 - September 01, 2017] 2017 / p. 58-64 : ill https://doi.org/10.1109/DEMPED.2017.8062334

Advanced condition monitoring method for high voltage overhead lines based on visual inspection
Manninen, Henri; **Kilter, Jako**; **Landsberg, Mart** 2018 IEEE Power & Energy Society General Meeting (PESGM 2018) : Portland, Oregon, USA, 5-10 August 2018 2018 / p. 2321-2325 : ill https://doi.org/10.1109/PESGM.2018.8586498

An advanced diagnostic approach for broken rotor bar detection and classification in DTC controlled induction motors by leveraging dynamic SHAP interaction feature selection (DSHAP-IFS) GBDT methodology
Khan, Muhammad Amir; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants** Machines 2024 / art. 495
https://doi.org/10.3390/machines12070495 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Advanced methodology for estimation of value of lost load (VOLL) using equipment specific health indices
Manninen, Henri; **Kilter, Jako**; Landsberg, Mart 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p
https://doi.org/10.1109/PQ.2019.8818245

Advanced Modelling Frameworks for the Digital Twin of an Autonomous Electric Vehicle Propulsion Drive System = Autonoomse elektrisõiduki veoelektriajami digitaalse kaksiku täiustatud modelleerimise raamistikud
Mohamed, Mahmoud Ibrahim Hassanin 2025 https://digikogu.taltech.ee/et/Item/6df09867-e34b-45f1-b04e-b97c08b90589
https://www.ester.ee/record=b5746300*est https://doi.org/10.23658/taltech.31/2025

Advancements and restrictions of E-assessment in view of remote learning in engineering
Raud, Zoja; **Vodovozov, Valery** 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/10.1109/RTUCON48111.2019.8982349

Advances in machine fault diagnosis
Vaimann, Toomas Applied sciences 2021 / art. 7348, 5 p https://doi.org/10.3390/app11167348 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Advances in machine fault diagnosis
2022 https://doi.org/10.3390/books978-3-0365-5110-4

Advances in machine fault diagnosis
Vaimann, Toomas Advances in machine fault diagnosis 2022 / p. 1-5 https://doi.org/10.3390/app11167348

Advancing solar power forecasting with machine learning
Hokmabad, Hossein Nourollahi 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. 89-90 : ill
https://www.ester.ee/record=b5570906*est

Aeg tunda rõõmu
Kilk, Aleksander Mesinik : mesindusajakiri 2023 / lk. 4-5 https://www.ester.ee/record=b1072594*est

Aggregated conducted electromagnetic interference generated by DC/DC converters with deterministic and random

modulation
Loschi, Hermes; Smolenski, Robert; Lezynski, Piotr; Nascimento, Douglas; **Demidova, Galina** Energies 2020 / art. 3698 https://doi.org/10.3390/en13143698

Aggregated conducted electromagnetic interference generated by DC/DC converters with deterministic and random modulation
Loschi, Hermes; Smolenski, Robert; Lezynski, Piotr; Nascimento, Douglas; **Demidova, Galina** Industrial and Technological Applications of Power Electronics Systems 2021 / p. 331-339 https://doi.org/10.3390/en13143698

Aggregated demand-side energy flexibility : a comprehensive review on characterization, forecasting and market prospects
Plaum, Freddy; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Kilter, Jako** Energy reports 2022 / p. 9344-9362 https://doi.org/10.1016/j.egyr.2022.07.038 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Aggregated energy flexibility provision using residential heat pumps
Plaum, Freddy; **Ahmadiahangar, Roya**; **Rosin, Argo** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 5 l https://doi.org/10.1109/CPE-POWERENG54966.2022.9880898

Aggregation ready flexibility management methods for mechanical ventilation systems in buildings
Maask, Vahur; **Rosin, Argo**; **Korõtko, Tarmo**; **Thalfeldt, Martin**; **Syri, Sanna**; **Ahmadiahangar, Roya** Energy and buildings 2023 / art. 113369, 14 p. : ill https://doi.org/10.1016/j.enbuild.2023.113369 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

Aggregator index for 24-hour energy flexibility evaluation in an ADN including PHEVs
Rashtbaryan, A.; Gharehpetian, Gevork B.; Baghaee, H. R.; **Ahmadiahangar, Roya** IEEE Access 2024 / p. 16105-16116 https://doi.org/10.1109/ACCESS.2024.3353136

AI applications for power quality issues in distribution systems : A systematic review
Nabian Dehaghani, Mitra; **Korõtko, Tarmo**; **Rosin, Argo** IEEE Access 2025 / p. 18346-183652025 https://doi.org/10.1109/ACCESS.2025.3533702

AI applications to enhance resilience in power systems and microgrids - a review
Zahraoui, Younes; **Korõtko, Tarmo**; **Rosin, Argo**; Mekhilef, Saad; Seyedmahmoudian, Mehdi; Stojcevski, Alex; Alhamrouni, Ibrahim Sustainability 2024 / art. 4959 https://doi.org/10.3390/su16124959

AI technologies and their applications in small-scale electric power systems
Shahid, Arqum; **Plaum, Freddy**; **Korõtko, Tarmo**; **Rosin, Argo** IEEE Access 2024 / p. 109984-110001 https://doi.org/10.1109/ACCESS.2024.3440067

Air-core coupled inductor based modular solid-state circuit breaker with reduced components for DC buildings
Pogulaguntla, Aditya; Dsa, Daniel; Yagna, Griddaluru Venkata; Banavath, Satish Naik; **Carvalho da Silva, Edivan Laercio**; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE journal of emerging and selected topics in power electronics 2024 / 12 p https://doi.org/10.1109/JESTPE.2024.3485735

"AK.Nädal" uuris, kuidas häirivad tuulepargid julgeolekut
Põlendik, Kadri; Aaspõllu, Huko err.ee 2024 "AK.Nädal" uuris, kuidas häirivad tuulepargid julgeolekut

Alalisvoolu tagasitulek - unistus või reaalsus?
Roasto, Indrek; **Vinnikov, Dmitri**; **Blinov, Andrei**; **Chub, Andrii**; **Carvalho da Silva, Edivan Laercio** Elektriala 2023 / lk. 22-25 : ill, portr https://www.ester.ee/record=b1240496*est

Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Tyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016+IEC 60700-2:2016/AMD1:2021)
2022 https://www.ester.ee/record=b5485873*est

Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Tyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016)
2020 https://www.ester.ee/record=b5329543*est

Alalisvooluülekanne [Võrguteavik] : sõnastik = High-voltage direct current (HVDC) transmission : vocabulary (IEC 60633:2019)
2020 https://www.ester.ee/record=b5307917*est

Aleksander Kilk
Kilk, Aleksander Nõukogude aja mesindus : mesinike meenutusi 2022 / lk. [78]-107 : fot https://www.ester.ee/record=b5508122*est

Alusteaduste aastale pandi punkt
Vaimann, Toomas; **Abner, Erik** Eesti Teaduste Akadeemia sõnas ja pildis 2023 2024 / lk. 65-67 : fot https://www.ester.ee/record=b5054043*est

Ameliorated quantum class topper optimization to solve economic load dispatch problems
Gupta, Pradeep Kumar; Kumari Gupta, Anju; **Tuttelberg, Kaur**; **Kilter, Jako** 2024 3rd International Conference on Energy Transition in the Mediterranean Area (SyNERGY MED) 2024 / 5 p https://doi.org/10.1109/SyNERGYMED62435.2024.10799422

An enhancement of the driver distraction detection and evaluation method based on computational intelligence algorithms
Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery**; **Petlenkov, Eduard** 2018 IEEE 16th International Conference on Industrial Informatics (INDIN 2018) : Porto, Portugal, 18-20 July 2018 2018 / p. 201-206 : ill https://doi.org/10.1109/INDIN.2018.8472045

An indirect adaptive control paradigm for wind generation systems
Kamal, Tariq; Karabacak, Murat; Hassan, Syed Zulqadar; Fernández Ramírez, Luis M.; **Roasto, Indrek**; Khan, Laiq Advanced control and optimization paradigms for wind energy systems 2019 / p. 235-257 https://doi.org/10.1007/978-981-13-5995-8_10 Article collection metrics at Scopus Article at Scopus

An indirect model predictive current control (CCS-MPC) for grid-connected single-phase three-level NPC quasi-Z-source PV inverter
Pires Pimentel, Sergio 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. 29-30 : ill https://www.ester.ee/record=b5183874*est

An interleaved ZVS high step-up converter for renewable energy systems applications
Nouri, Tohid; Branch, Sari; Shaneh, Mahdi; Benbouzid, Mohamed; **Vosoughi Kurdkandi, Naser** IEEE Transactions on Industrial Electronics 2022 / p. 4786-4800 https://doi.org/10.1109/TIE.2021.3080211 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An SVM scheme for three-level quasi-switched boost T-type inverter with Enhanced voltage gain and capacitor voltage balance
Tran, Vinh-Thanh; Nguyen, Minh-Khai; Do, Duc-Tri; **Vinnikov, Dmitri** IEEE transactions on power electronics 2021 / p. 11499-11508 https://doi.org/10.1109/TPEL.2021.3071011 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysing the influence of temperature and pressure on corona loss of 330kV overhead tranmission line
Gupta, Pradeep Kumar 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. 79-80 : ill https://www.ester.ee/record=b5570906*est

Analysis and application of light-technical parameters to assure pedestrian safety on roadway crossings with additional lighting
Varjas, Toivo; Armas, Jelena; **Rosin, Argo** 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. 148-151 : ill http://www.ester.ee/record=b4650094*est

Analysis and comparison of high-frequency link converter topologies
Korkh, Oleksandr 17th International Symposium “Topical Problems in the Field of Electrical and Power Engineering”. Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 156-161 : ill http://ise.elnet.ee/record=b2950098~S2*est

Analysis and design of asymmetric quad-active-bridge converter
Chub, Andrii; Costa, Levy; Liserre, Marco IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society : proceedings : China National Convetion Center, Beijing, China, 29. October - 01. November, 2017 2017 / p. 5367-5372 : ill https://doi.org/10.1109/IECON.2017.8216930

Analysis and optimization of the provision of reactive power by nanogrids in a low voltage network
Helguero Cruz, Jorge Luis 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. 155-156 https://www.ester.ee/record=b5291755*est https://www.digar.ee/viewer/en/nlib-digar:425642/361332/page/201

Analysis and static mode optimization of simultaneous inductive and capacitive coupled wireless power transfer system
Shevchenko, Viktor; Pakhaliuk, Bohdan; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Strzelecki, Ryszard; Khomenko, Maksym 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 / 5 p https://doi.org/10.1109/RTUCON60080.2023.10413112

Analysis of a three-phase induction motor using the dynamic state space model
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 65-69 : ill http://ise.elnet.ee/record=b2950017~S2*est

Analysis of advanced passive heatsinks for electrical machines enabled by additive manufacturing
Sarap, Martin; **Kallaste, Ants**; **Ghahfarokhi, Payam Shams**; **Vaimann, Toomas** 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill https://doi.org/10.1109/WEMDCD55819.2023.10110940

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

Analysis of broken rotor bar diagnostic techniques for inverter fed induction motor faults
Sardar, Muhammad Usman 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. 39-40 : ill https://www.ester.ee/record=b5570906*est

Analysis of building sensor data to explain the experienced indoor room temperature
Crasta, Cletus J. 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. 211-212 : ill https://www.ester.ee/record=b5183874*est

Analysis of common mode and rapidly varying voltage profile on stator current harmonics of an inverter-fed induction motor
Sardar, Muhammad Usman; **Vaimann, Toomas**; **Kütt, Lauri**; **Kallaste, Ants**; **Asad, Bilal**; **Kudelina, Karolina**; **Akbar, Siddique** 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. : ill https://doi.org/10.1109/RTUCON60080.2023.10413067

Analysis of consumer energy flexibility and applicability for power system
Metsik, Merilin; **Rosin, Argo**; **Maask, Vahur**; **Agabus, Hannes** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p https://doi.org/10.1109/RTUCON62997.2024.10830882

Analysis of cost function composition based on the horizon time prediction of an indirect MPC current control in single-phase grid-connected PV inverters
Pimentel, Sergio Pires; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Stepenko, Serhii** 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/10.1109/RTUCON48111.2019.8982377

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

Analysis of electromagnetic force ripple in a bearingless synchronous reluctance motor
Mukherjee, Victor; Rasilo, Paavo; Martin, Floran; **Belahcen, Anouar** IEEE transactions on magnetics 2021 / art. 9277612, 8 p. : ill https://doi.org/10.1109/TMAG.2020.3041703 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Analysis of harmonic current stability and summation of LED lamps
Jarkovoi, Marek; **Iqbal, Muhammad Naveed**; **Kütt, Lauri** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p. : ill https://doi.org/10.1109/PQ.2019.8818237

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

Analysis of insulation degradation behavior based on partial discharge measurement
Choudhary, Maninder 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. 71-72 : ill
https://www.ester.ee/record=b5570906*est

Analysis of microgrid configuration effects on energy efficiency
Peterson, Kristjan; **Ahmadiahangar, Roya**; **Shabbir, Noman**; **Vinnal, Toomas** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill https://doi.org/

Analysis of oscillation suppression methods in the AC-AC stage of high frequency link converters
Korkh, Oleksandr; **Blinov, Andrei**; **Vinnikov, Dmitri** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill
https://doi.org/10.1109/RTUCON48111.2019.8982259

Analysis of possible faults and diagnostic methods of the Cartesian industrial robot
Autsou, Siarhei; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kudelina, Karolina** Proceedings of the Estonian Academy of Sciences 2022 / p. 227-24 : ill https://doi.org/10.3176/proc.2022.3.04 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of series partial power converter in transient and steady-state operation modes
Hassanpour, Naser 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. 51-52 https://www.ester.ee/record=b5504019*est

Analysis of the applicability of PMU measurements for power quality assessment
Löper, Mari; **Trummal, Tarmo**; **Kilter, Jako** 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p
https://doi.org/10.1109/ISGTEurope.2018.8571618

Analysis of the local and global forces acting on the coil structure of a modular slotless permanent magnet generator
Kallaste, Ants; **Vaimann, Toomas**; **Belahcen, Anouar**; **Shams Ghahfarokhi, Payam**; **Rassõlkin, Anton** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 9-14 : ill https://doi.org/10.2478/ecce-2019-0002

Analysis of the use of supercapacitors and batteries as energy storage elements for off-grid hybrid photovoltaic inverters
Gonschorowski, E.; Cardoso, Rafael; **Carvalho da Silva, Edivan Laercio**; de Oliveira Stein, Carlos Marcelo; Carati, Emerson Giovani; Denardin, Gustavo Weber; da Costa, Jean Patric 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 7 p https://doi.org/10.1109/SPEC56436.2023.10407182

Analysis of the vibration magnitude of an induction motor with different numbers of broken bars
Martinez, Javier; **Belahcen, Anouar**; Muetze, Annette IEEE transactions on industry applications 2017 / p. 2711-2720 : ill
https://doi.org/10.1109/TIA.2017.2657478 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Analysis of transmission network short cable line sheath bonding methods
Kangro, Triin; **Kilter, Jako** 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / 6 p.: ill
https://doi.org/10.1109/EEEIC.2018.8493944

Analysis of ventilation load flexibility depending on indoor climate conditions
Maask, Vahur; **Häring, Tobias**; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Korõtko, Tarmo** 2020 IEEE International Conferenceon Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 607-612 https://doi.org/10.1109/ICIT45562.2020.9067153 Conference Proceedings at Scopus Article at Scopus Article at WOS

An analytic model for fault diagnosis in power distribution systems considering unreliable alarms
Wang, Chongyu; Pang, Kaiyuan; Zhang, Yong; **Wen, Fushuan**; **Palu, Ivo**; Xiong, Wen; Chen, Minghui; Shang, Huiyu 2020 IEEE Power & Energy Society General Meeting (GM 2020) 2020 / 5 l https://doi.org/10.1109/PESGM41954.2020.9281468

Analytical approach for maximizing self-consumption of nearly zero energy buildings- case study : Baltic region
Ahmadiahangar, 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 model including rotor eccentricity for bearingless synchronous reluctance motors
Saarakkala, Seppo E.; Mukherjee, Victor; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 1388-1394 : ill https://doi.org/10.1109/ICELMACH.2018.8506892

Analytical modelling of synchronous reluctance motor including non-linear magnetic condition
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** IET electric power applications 2022 / p. 511-524 https://doi.org/10.1049/elp2.12172 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analytical thermal model and flow network analysis suitable for open self-ventilated machines
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** IET Electric Power Applications 2020 / p. 929-936 : ill https://doi.org/10.1049/iet-epa.2019.1020 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Andmete- ja andmesidekvaliteedi suurendamine faasimõõteseadmete (PMU) lisamisega Eesti ülekandevõrgu alajaamadesse
Kilter, Jako; **Leinakse, Madis** 2022

Andrii Chub: teadustöö on põnevam kui töö ettevõttes
Chub, Andrii Mente et Manu 2022 / lk. 12-17 : fot https://www.ester.ee/record=b1242496*est

ANN-LSTM based tool for photovoltaic power forecasting
Zahraoui, Younes; **Korõtko, Tarmo**; Mekhilef, Saad; **Rosin, Argo** 2024 4th International Conference on Smart Grid and Renewable Energy (SGRE) : proceedings 2024 / 6 p. : ill https://doi.org/10.1109/SGRE59715.2024.10428969

Anomaly detection and classification in power system state estimation: Combining model-based and data-driven methods
Asefi, Sajjad; Mitrovic, Mile; Cetenovic, Dragan; Levi, Victor; Gryazina, Elena; Terzija, Vladimir Sustainable energy, grids and networks 2023 / art. 101116, 14 p. : ill https://doi.org/10.1016/j.segan.2023.101116 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Anomaly detection, classification and identification Tool (ADCIT)
Asefi, Sajjad; Mitrovic, Mile; Cetenovic, Dragan; Levi, Victor; Gryazina, Elena; Terzija, Vladimir Software impacts 2023 / art. 100465, 3 p. : ill https://doi.org/10.1016/j.simpa.2023.100465 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Application of active thermography for the study of losses in components produced by laser powder Bed fusion
Quercio, Michele; Poskovic, Emir; Franchini, Fausto; Fracchia, Elisa; Ferraris, Luca; Canova, Aldo; Tenconi, Alberto; **Tiismus, Hans**; **Kallaste, Ants** Journal of magnetism and magnetic materials 2024 / art. 171796 https://doi.org/10.1016/j.jmmm.2024.171796 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Application of artificial intelligence in smart kitchen
Vu, Trieu Minh; **Khanna, Riva** International Journal of Innovative Technology and Interdisciplinary Sciences : IJITIS 2018 / p. 1-8 : ill https://doi.org/10.15157/IJITIS.2018.1.1.1-8

Application of boundary conduction mode control in galvanically isolated buck-boost converter
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii** 3rd International Conference on Smart Grid and Renewable Energy (SGRE) 2022 / p. 1-6 https://doi.org/10.1109/SGRE53517.2022.9774105

Application of cycle skipping modulation in buck-boost photovoltaic microconverters
Maheri, Hamed Mashinchi; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim**; Galkin, Ilja IEEE transactions on industry applications 2022 / p. 4804-4815 https://doi.org/10.1109/TIA.2022.3163083 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Application of hyperspectral imaging in waste paper sorting
Juurma, Märt; **Sillat, Mari-Liis**; **Tamre, Mart** 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. 197-200 : ill http://www.ester.ee/record=b4650094*est

Application of Leddar to optimize image processing operations
Mets, Oliver; **Piigli, Ervin** 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. 209-210 : ill http://www.ester.ee/record=b4650094*est

Application of transfer learning for instrument transformer condition monitoring
Asefi, Sajjad; **Kilter, Jako**; Akroud, Nabil; Hurtado, Aritz; Gilbert, Ian; Orue, Inaki 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 4 p https://doi.org/10.1109/Diagnostika61830.2024.10693903

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

Applying reinforcement learning method for real-time energy management
Borhan Dayani, Aida; **Fazlollahtabar, Hamed**; **Ahmadiahangar, Roya**; **Rosin, Argo** 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 5 p. : ill https://doi.org/10.1109/EEEIC.2019.8783766

Argo Rosin : energeetika vajab operatiivset ja arukat tegutsemist
Rosin, Argo err.ee 2022 Argo Rosin: energeetika vajab operatiivset ja arukat tegutsemist

Argo Rosin, Imre Drovtar: Rohepööre transpordis on utoopiline [Võrguväljaanne]
Rosin, Argo; **Drovtar, Imre** postimees.ee 2021 "Argo Rosin, Imre Drovtar: Rohepööre transpordis on utoopiline"

Argo Rosin: ilma insenerideta jääks maailm pimedusse
Rosin, Argo delfi.ee 2025 https://arileht.delfi.ee/artikkel/120374509/argo-rosin-ilma-insenerideta-jaaks-maailm-pimedusse

Argo Rosin: kas rohepööre või rohepöörasus? [Võrguväljaanne]
Rosin, Argo postimees.ee 2021 "Argo Rosin: kas rohepööre või rohepöörasus?"

Argo Rosin: kuidas kilplased seakisatööstuse abil hirme peletasid [Võrguväljaanne]
Rosin, Argo err.ee 2021 / fot Argo Rosin: kuidas kilplased seakisatööstuse abil hirme peletasid "

Argo Rosin: Kuidas kilplased vaimult rikkaks ja õnnelikuks said
Rosin, Argo Postimees 2018 / lk. 15 Kuidas kilplased vaimult rikkaks said

Argo Rosin: rohepööre, ülikool ja mängurlus [Võrguväljaanne]
Rosin, Argo err.ee 2021 "Argo Rosin: rohepööre, ülikool ja mängurlus"

Argo Rosin: teadmiste roll tõe(järg)se ühiskonna kujunemisel
Rosin, Argo err.ee 2024 Argo Rosin: teadmiste roll tõe(järg)se ühiskonna kujunemisel

Argo Rosin: tõsiroheline pööre vajab rohkem insenere [Võrguväljaanne]
Rosin, Argo aripaev.ee 2021 "Argo Rosin: tõsiroheline pööre vajab rohkem insenere"

Artificial Hummingbird Algorithm For Optimal Reconfiguration Of Electrical Distribution networks
Zahraoui, Younes; Bouhanik, Anes; **Korõtko, Tarmo**; **Rosin, Argo**; Mekhilef, Saad 2024 IEEE 22nd Mediterranean Electrotechnical Conference (MELECON) 2024 / p. 225-229 https://doi.org/10.1109/MELECON56669.2024.10608525

Artificial intelligence driven approaches for fault prognostics of electrical machines using vibration spectrum analysis = Tehisintellektil põhinevad lähenemisviisid elektrimasinate rikete prognoosimiseks vibratsioonispektri analüüsi abil
Kudelina, Karolina 2024 https://www.ester.ee/record=b5685285*est https://doi.org/10.23658/taltech.28/2024 https://digikogu.taltech.ee/et/Item/229f1bbb-6178-414a-9e2e-2c98a30a783c

Artificial intelligence in monitoring and diagnostics of electrical energy conversion systems
Vaimann, Toomas; **Rassõlkin, Anton**; **Kallaste, Ants**; Pomarnacki, Raimondas; **Belahcen, Anouar**; Van Khang, Hyunh 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 4 p https://doi.org/10.1109/IWED48848.2020.9069566

Artificial Intelligence in the hierarchical control of ac, dc and hybrid ac/dc microgrids – A review
Gutiérrez-Escalona, J.; Roncero-Clemente, C.; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; Blaabjerg, Frede IEEE Access 2024 / 20 p https://doi.org/10.1109/ACCESS.2024.3486382

Artificial Intelligence-Based Predictive Analytics for Battery Energy Storage Systems in Electric Vehicle Applications = Tehisintellektil põhinev ennustav andmeanalüüs akupõhiste energiasalvestussüsteemide jaoks elektrisõidukites
Zequera, Rolando Antonio Gilbert 2025 https://www.ester.ee/record=b5758189*est https://digikogu.taltech.ee/et/Item/7ecb1e38-a591-47c5-b37e-7c2e901d05f1 https://doi.org/10.23658/taltech.61/2025

Assessment of corona loss performance on aging transmission lines using PMU measurements
Gupta, Pradeep Kumar; **Tuttelberg, Kaur**; **Kilter, Jako** Energy reports 2023 / p. 215-219 https://doi.org/10.1016/j.egyr.2023.09.160 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Assessment of data acquisition system for forecasting temperature and solar irradiation
Zahraoui, Younes; **Korõtko, Tarmo**; Mekhilef, Saad; Alhamrouni, Ibrahim 2023 International Conference on Engineering

Technology and Technopreneurship (ICE2T) 2024 / p. 408-413 https://doi.org/10.1109/ICE2T58637.2023.10540516

Assessment of higher harmonics influence to PMU measurement accuracy
Löper, Mari; **Salumäe, Uku**; **Kilter, Jako** 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : Torino, Italy 26-29 September 2017 : Conference Proceedings 2017 / 6 p. : ill https://doi.org/10.1109/ISGTEurope.2017.8260271

Assessment of mixed energy storage system considering high spatial resolution data from a real PV installation
Rogowski, Szymon; **Hasan, Sayeed**; **Chub, Andrii**; **Sibinski, Maciej** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p https://doi.org/10.1109/BEC61458.2024.10737964 Conference Proceedings at Scopus Article at Scopus Article at WOS

Assessment of pedestrian crossings measuring parameters and implementation of new measuring methods in Estonia
Varjas, Toivo; **Kuusik, Marko**; **Armas, Jelena**; **Rosin, Argo** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 4 p. : ill https://doi.org/10.1109/RTUCON.2018.8659821

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 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Asymmetric snubberless current-fed full-bridge isolated DC-DC converters
Kosenko, Roman; **Blinov, Andrei**; **Vinnikov, Dmitri**; **Chub, Andrii** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 5-11 : ill https://doi.org/10.2478/ecce-2018-0001

Automatic position detection and transmitting activation of dynamic wireless power transfer system with air capacitor
Pakhaliuk, Bohdan; **Husev, Oleksandr**; **Shevchenko, Viktor**; Kroics, Kaspars; Stepins, Deniss; Strzelecki, Ryszard Wireless Power Week (WPW) : Proceedings 2022 / p. 487-491 https://doi.org/10.1109/WPW54272.2022.9853972

Automatic tolerance analysis of permanent magnet machines with encapsuled FEM Models using Digital-Twin-Distiller
Orosz, Tamas; Gadó, Krisztián; Katona, Mihály; **Rassõlkin, Anton** Processes 2021 / art. 2077, p. 1-15 : ill https://doi.org/10.3390/pr9112077 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Autonomous last mile shuttle ISEAUTO for education and research
Sell, Raivo; **Leier, Mairo**; **Rassõlkin, Anton**; **Ernits, Juhan-Peep** International journal of artificial intelligence and machine learning 2020 / p. 18−30 https://doi.org/10.4018/IJAIML.2020010102

Autonomous vehicle shuttle in Smart City testbed
Sell, Raivo; **Soe, Ralf-Martin**; **Wang, Ruxin**; **Rassõlkin, Anton** Intelligent System Solutions for Auto Mobility and Beyond : Advanced Microsystems for Automotive Applications 2020 2021 / p. 143–157 https://doi.org/10.1007/978-3-030-65871-7_11

Auvere 2 asemel tuleks elektri tootmine hajutada üle Eesti
Kuhi-Thalfeldt, Reeli postimees.ee 2022 Auvere 2 asemel tuleks elektri tootmine hajutada üle Eesti

Auvere elektrijaama töökindlus sai taas löögi. Pakun lahenduse
Kuhi-Thalfeldt, Reeli postimees.ee 2022 Auvere elektrijaama töökindlus sai taas löögi. Pakun lahenduse

Avalike elektrivõrkude pinge tunnussuurused [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks
2019 https://www.ester.ee/record=b5273602*est

Avalike elektrivõrkude pinge tunnussuurused [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks
2019 https://www.ester.ee/record=b5273643*est

Avalike elektrivõrkude pinge tunnussuurused [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks
2019

Awareness of BSR municipalities about sustainable urban lighting and green public procurements
Korõtko, Tarmo; **Rosin, Argo**; **Varjas, Toivo**; **Ahmadiahangar, Roya** 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 6 p. : ill https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160761

Axial synchronous magnetic coupling modeling and printing with selective laser melting
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; Belahcen, Anouar 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference

proceedings 2019 / 4 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982344

Axially asymmetric design for additive manufacturing of synchronous reluctance machines
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p https://doi.org/10.1109/IEMDC55163.2023.10238995

Background for development methodology for creating the digital twin for propulsion drive of an electric vehicle
Rjabtšikov, Viktor 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 27-28 : ill https://www.ester.ee/record=b5457278*est

Back-to-back energy router based on common-ground inverters
Azizi, Mohammadreza; **Rahimpour, Saeed**; **Husev, Oleksandr**; **Veligorskyi, Oleksandr** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / p. 1-6 https://doi.org//10.1109/CPE-POWERENG58103.2023.10227480

Ballastseadist sisaldavad üldtarbevalgustuse valgusdioodlambid pingega üle 50 V [Võrguteavik] : ohutusnõuded = Self-ballasted LED-lamps for general lighting services by voltage > 50 V : safety specifications (IEC 62560:2011, modified+corrigendum Jan. 2012+A1:2015)
2019 https://www.ester.ee/record=b5233464*est

Ballastseadist sisaldavad üldtarbevalgustuse valgusdioodlambid pingega üle 50 V [Võrguteavik] : ohutusnõuded = Self-ballasted LED-lamps for general lighting services by voltage > 50 V : safety specifications (IEC 62560:2011, modified+corrigendum Jan. 2012+A1:2015)
2019 https://www.ester.ee/record=b5234038*est

Balmorel open source energy system model
Wiese, Frauke; Bramstoft, Rasmus; **Koduvere, Hardi**; Pizarro Alonso, Amalia Energy strategy reviews 2018 / p. 26−34 : ill https://doi.org/10.1016/j.esr.2018.01.003 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Balti LFC ploki vajalike sageduse hoidmise ja taastamise reservide dimensioneerimine suurenenud taastuvenergiaallikate lisandumise korral
Leinakse, Madis; **Kilter, Jako** 2023

Balti riigid peaksid jääma ühendusse ikka Venemaa energiasüsteemiga
Raukas, Anto; **Valdma, Mati** Eesti Päevaleht 2017 / lk. 12 https://epl.delfi.ee/artikkel/79946242/balti-riigid-peaksid-jaama-uhendusse-ikka-venemaa-energiasusteemiga

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

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 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

Bearing fault analysis of BLDC motor for electric scooter application
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Belahcen, Anouar**; **Rassõlkin, Anton**; **Kallaste, Ants**; Lukichev, Dmitry Designs 2020 / art. 42, 18 p. : ill https://doi.org/10.3390/designs4040042 Journal metrics at Scopus Article at Scopus

Bearing fault analysis of BLDC motor intended for electric scooter application
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** 2021 IEEE 13th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2021 / p. 427-432 https://doi.org/10.1109/SDEMPED51010.2021.9605519

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

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

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

Bidirectional DC-DC converter for modular residential battery energy storage systems
Chub, Andrii; **Vinnikov, Dmitri**; **Kosenko, Roman**; **Liivik, Liisa**; Galkin, Ilja 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 DC-DC converter with extended ZVS/ZCS range for storage applications
Blinov, Andrei 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. 31-32 : ill
https://www.ester.ee/record=b5183874*est

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 isolated current-fed soft-switching secondary-modulated DC-DC converters = Isoleeritud kahesuunalised voolutoitelised pehmelülituse ja sekundaarmodulatsiooniga alalisvoolumuundurid
Kosenko, Roman 2019 https://digi.lib.ttu.ee/i/?11237

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

Bidirectional isolated ZVS DC-DC converter with auxiliary active switch for high-power energy storage applications
Ivakhno, Volodymyr; Zamaruiev, Volodymyr; Styslo, Bogdan; **Kosenko, Roman**; **Blinov, Andrei** 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 589-592 : ill https://doi.org/10.1109/UKRCON.2017.8100315

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

Bidirectional 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

Bidirectional soft-switching dc-dc converter for battery energy storage systems
Blinov, Andrei; **Kosenko, Roman**; **Chub, Andrii**; **Vinnikov, Dmitri** IET power electronics 2018 / p. 2000-2009 : ill
https://doi.org/10.1049/iet-pel.2018.5054 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Bidirectional solid-state DC circuit breaker for the protection of cesidential and Commercial DC buildings
Aditya, P.; Yagna, V.; Banoth, T.; **Chub, Andrii**; **Banavath, Satish Naik** 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 6 p https://doi.org/10.1109/SPEC56436.2023.10407460

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

Bidirectional twisted single-stage single-phase buck-boost DC-AC converter
Husev, Oleksandr; **Matiushkin, Oleksandr**; Roncero-Clemente, Carlos; **Vinnikov, Dmitri**; Chopyk, Vasiliy Energies 2019 / art.

3505, 14 p. : ill https://doi.org/10.3390/en12183505 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Bidirectional wide voltage range series-parallel resonant buck-boost DC-DC converter
Blinov, Andrei; **Chub, Andrii**; **Vinnikov, Dmitri** 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 5 p https://doi.org/10.1109/PEMC61721.2024.10726369

Binary logic vs. fuzzy logic techniques for tuning robust controllers
Vodovozov, Valery 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. 49-50 https://www.ester.ee/record=b5183874*est

Bipolar duty cycle control for dual side LCC compensated inductive power transfer system for wide output voltage range
Kishan, D.; **Chub, Andrii**; Vinod, Marupuru IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2025 / 4 p https://doi.org/10.1109/IECON55916.2024.10905524 Conference proceedings at Scopus Article at Scopus

Bivariate stochastic model of current harmonic analysis in the low voltage distribution grid
Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Daniel, Kamran**; **Jarkovoi, Marek**; **Asad, Bilal**; **Shabbir, Noman** Proceedings of the Estonian Academy of Sciences 2021 / p. 190–206 : ill https://doi.org/10.3176/proc.2021.2.08 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Blended antilock braking system control method for all-wheel drive electric sport utility vehicle
Aksjonov, Andrei; **Vodovozov, Valery**; Augsburg, Klaus; **Petlenkov, Eduard** Electrimacs 2019 : Selected Papers, Vol. 1 2020 / p. 229-241 https://doi.org/10.1007/978-3-030-37161-6_17 Conference proceeding at Scopus Article at Scopus

Blockchain for EU electricity market
Crasta, Cletus J.; **Agabus, Hannes**; **Palu, Ivo** 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 6 p https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160575

Boost half-bridge DC-DC converter with reconfigurable rectifier for ultra-wide input voltage range applications
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Elizaveta**; Blaabjerg, Frede; Siwakoti, Yam P. 2018 IEEE Applied Power Electronics Conference and Exposition (APEC 2018), San Antonio, Texas, USA, 4-8 March 2018 2018 / p. 1528-1532 : ill https://doi.org/10.1109/APEC.2018.8341219 Conference proceedings at Scopus Article at Scopus Article at WOS

Broken rotor bar fault detection of the grid and inverter-fed induction motor by effective attenuation of the fundamental component
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Iqbal, Muhammad Naveed** IET electric power applications 2019 / p. 2005–2014 https://doi.org/10.1049/iet-epa.2019.0350 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Broken rotor bar fault detection using machine learning: Optimal frequency resolution
Koveshnikov, Semen; Bouharrouti, Nada El; **Kudelina, Karolina**; **Naseer, Muhammad Usman**; **Vaimann, Toomas**; Belahcen, Anouar 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p https://doi.org/10.1109/ICEM60801.2024.10700228

Broken rotor bar fault diagnostic of inverter fed induction motor using FFT, Hilbert and Park's vector approach
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 2352-2358 : ill https://doi.org/10.1109/ICELMACH.2018.8506957

Buck-boost resonant Z-source parital power converter
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 3rd International Conference on Smart Grid and Renewable Energy (SGRE) 2022 / p. 1-6 https://doi.org/10.1109/SGRE53517.2022.9774095

Buck-boost unfolder inverter as a novel solution for single-phase PV systems
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; Roncero, Carlos; Romero-Cadaval, Enrique; **Kütt, Lauri** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6116-6121 : ill https://doi.org/10.1109/IECON.2018.8592899

Bussi- ja autoehitusest, lisaks pisut projekteerimisest
Tiidemann, Tiit Inseneeria 2017 / lk. 60-65 : ill https://artiklid.elnet.ee/record=b2818086*est

Calculation of the traction effort of ISEAUTO self-driving vehicle
Rassõlkin, Anton; **Gevorkov, Levon**; **Vaimann, Toomas**; **Kallaste, Ants**; **Sell, Raivo** 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill https://doi.org/10.1109/IWED.2018.8321397

Campulse - TalTechi digilinnaku süda
Agabus, Hannes Mente et Manu 2022 / lk. 34-35 : ill https://www.ester.ee/record=b1242496*est

Campulse toob ülikooli energiaandmed kokku
Agabus, Hannes Mente et Manu 2021 / lk. 32 : ill Mente et Manu 2/2021

Can electrical phenomena be explained with the concept of an "electric family tree"?
Järvik, Jaan 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. 45-46 : ill
https://www.ester.ee/record=b5183874*est

Capacitor coupled voltage transformer defect identification in the presence of tap changer
Asefi, Sajjad; **Leinakse, Madis**; **Kilter, Jako**; Landsberg, Mart IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p https://doi.org/10.1109/isgteurope56780.2023.10408138

Capacitor coupled voltage transformer inaccuracy effect on circuit breaker operation
Asefi, Sajjad; **Andreesen, Guido**; **Kilter, Jako**; Landsberg, Mart 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p https://doi.org/10.1109/EPE58302.2023.10149279

Capacitor coupled voltage transformer inaccuracy modeling
Asefi, Sajjad 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. 73-74 : ill https://www.ester.ee/record=b5570906*est

Carrier level-shifted based control method for the PWM 3L-T-Type qZS inverter with capacitor imbalance compensation
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Ruiz-Cortes, Mercedes; **Husev, Oleksandr** IEEE transactions on industrial electronics 2018 / p. 8297-8306 : ill https://doi.org/10.1109/TIE.2018.2814020 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Case study of non-linear PV inverter devices attached to the LV distribution network
Vinnal, Toomas; **Puusepp, Hardi**; **Shabbir, Noman**; **Kütt, Lauri**; **Iqbal, Muhammad Naveed** Agronomy research 2020 / p. 2639−2652 : ill https://doi.org/10.15159/AR.20.233 https://dspace.emu.ee/xmlui/handle/10492/5955 Journal metrics at Scopus Article at Scopus

A case study of optimising energy storage dispatch : convex optimisation approach with degradation considerations
Vaicys, Jonas; Gudžius, Saulius; Jonaitis, Audrius; Rackiene, Roma; **Blinov, Andrei**; Peftitsis, Dimosthenis Journal of energy storage 2024 / art. 112941 https://doi.org/10.1016/j.est.2024.112941

Case study of outdoor digital screens effect on drivers
Parker, Martin; **Rosin, Argo**; **Antov, Dago**; **Varjas, Toivo**; **Möller, Taavi**; Gorislavskaja, Inna 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p
https://doi.org/10.1109/RTUCON62997.2024.10830768

Case study of supplementary PMSM for low-speed wind turbine
Poliakov, Nikolai; Vorobev, Konstantin; **Demidova, Galina**; **Rassõlkin, Anton**; Ramensky, Dmitry 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 5 p. : ill
https://doi.org/10.1109/ACED50605.2021.9462253

Catalytic effect of oil shale ash on CO2 gasification of leached wheat straw and reed chars
Link, Siim; Tran, Khanh-Quang; Bach, Quang-Vu; Yrjas, Patrik; **Rosin, Argo** Energy 2018 / p. 906-913
https://doi.org/10.1016/j.energy.2018.04.013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cell-level power supply for high-voltage modular multilevel converters [Electronic resource]
Blinov, Andrei; Norrga, Staffan; Tibola, Gabriel; Velotto, Giovanni 19th European Conference on Power Electronics and Application : EPE'17 ECCE Europe : September 11-14, 2017, Warsaw, Poland 2017 / p. P1-P10 : ill. [USB]
https://doi.org/10.23919/EPE17ECCEEurope.2017.8099361

Challenges of academic mobility in view of students inclusion in engineering education
Raud, Zoja; **Vodovozov, Valery** Proceedings of the 2020 IEEE Global Engineering Education Conference (EDUCON) : Engineering Education for the Future in a Multicultural and Smart World, 27-30 April, 2020, Porto, Portugal 2020 / p. 139-144 : ill
https://doi.org/10.1109/EDUCON45650.2020.9125238

Challenges of active learning in a view of integrated engineering education
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Education Sciences 2021 / art. 43 https://doi.org/10.3390/educsci11020043

Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Challenges of additive manufacturing of electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Rassõlkin, Anton**; **Vaimann, Toomas** 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. 44-48 : ill https://doi.org/10.1109/DEMPED.2019.8864850

Challenges of smart grids implementation
Ahmadiahangar, Roya; **Rosin, Argo**; **Palu, Ivo**; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 1-15 https://doi.org/10.1007/978-981-15-4627-3_1 Journal metrics at Scopus Article at Scopus

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

A chance-constrained decentralized operation of multi-area integrated electricity–natural gas systems with variable wind and solar energy
Qi, Feng; Shahidehpour, Mohammad; Li, Zhiyi; **Wen, Fushuan**; Shao, Changzhen IEEE Transactions on sustainable energy 2020 / p. 2230-2240 https://doi.org/10.1109/TSTE.2019.2952495

Characterisation of 1200 V RB-IGBTs with different irradiation levels under hard and soft switching conditions
Blinov, Andrei; **Korkh, Oleksandr**; **Vinnikov, Dmitri**; Waind, Peter 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 1382-1391 : ill https://ieeexplore.ieee.org/document/8515535

Characterisation of 1200 V reverse-blocking IGBTs for naturally commutated HF-link inverter
Zinchenko, Denys; **Korkh, Oleksandr**; **Blinov, Andrei**; Waind, Peter; **Vinnikov, Dmitri** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 382-387 : ill https://doi.org/10.1109/UKRCON.2019.8879900

Characteristic pulse pattern features of different types of partial discharge sources in power cables
Kiitam, Ivar; **Shafiq, Muhammad**; **Taklaja, Paul**; **Parker, Martin**; **Palu, Ivo**; **Kütt, Lauri** IEEE Power Engineering Society Conference and Exposition in Africa, PowerAfrica, IEEE PES/IAS PowerAfrica, Nairobi, Keenia, 23-27 Aug 2021 : proceedings 2021 / 5 p. : ill https://doi.org/10.1109/PowerAfrica52236.2021.9543366

Characterization of corona and internal partial discharge under increasing electrical stress using time domain analysis
Shafiq, Muhammad; **Kiitam, Ivar**; **Taklaja, Paul**; Hussain, Amjad; **Kütt, Lauri**; Kauhaniemi, Kimmo 2020 IEEE Electrical Insulation Conference : EIC 2020 2020 / vol. 217−220 https://doi.org/10.1109/EIC47619.2020.9158701

Characterization of high-frequency impedance-based models for transient terminal overvoltage estimation in cable-fed motor drive systems
Sardar, Muhammad Usman; **Vaimann, Toomas**; **Kütt, Lauri**; **Asad, Bilal**; **Kallaste, Ants**; **Kudelina, Karolina** 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p https://doi.org/10.1109/ICEM60801.2024.10700495

Characterizing energy flexibility of buildings with electric vehicles and shiftable appliances on single building level and aggregated level
Azizi, Elnaz; **Ahmadiahangar, Roya**; **Rosin, Argo**; Bolouki, Sadegh Sustainable cities and society 2022 / art. 103999 https://doi.org/10.1016/j.scs.2022.103999 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Charge Diagnostics and State Estimation of Battery Energy Storage Systems Through Transformer Models
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** IEEE Access 2025 / p. 17733–17744 : ill https://doi.org//10.1109/ACCESS.2025.3532858

Charging infrastructure planning for electric vehicle in India : present status and future challenges
Sachan, Sulabh; **Singh, Praveen Prakash** Regional Sustainability 2022 / p. 335 - 345 https://doi.org/10.1016/j.regsus.2022.11.008 Journal metrics at Scopus Article at Scopus Article at WOS

Circulation centrifugal pump with variable speed drives and minimal electricity consumption
Vodovozov, Valery; **Gevorkov, Levon**; **Raud, Zoja** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 2017 / p. 334-339 : ill http://dx.doi.org/10.1109/CPE.2017.7915193

Class topper pptimization approach to solve non-convex combined heat and power economic dispatch problems in power systems
Gupta, Pradeep Kumar; **Tuttelberg, Kaur**; **Kilter, Jako** 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 179-184 https://doi.org/10.1109/PECon62060.2024.10827527

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

Closed-loop control system design for wireless charging of low-voltage EV batteries with time-delay constraints
Shevchenko, Viktor; Pakhaliuk, Bohdan; Zakis, Janis; Veligorskyi, Oleksandr; Luszcz, Jaroslaw; **Husev, Oleksandr**; Lytvyn, Oksana; **Matiushkin, Oleksandr** Energies 2021 / art. 3934, 21 p. : ill https://doi.org/10.3390/en14133934 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Closing the loop with automated adaptive disassembly
Schmitt, R. H.; Göppert, A.; Sohnius, F.; Frye, M.; Balzereit, F.; Elsner, J.; Briele, K.; Bergs, L.; Bitter-Krahe, J.; Drechsel, M.; **Häring, Tobias** Empower Green Production: Conference proceedings : AWK'23, May 11-12, 2023 2023 / p. 61-89 : ill https://doi.org/10.24406/publica-943

Clustering and outlier analysis for key performance indicators in battery energy storage systems applications
Zequera, Rolando Antonio Gilbert; **Rassõlkin, 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

Clustering of Transmission System Loads Based on Monthly Load Class Energy Consumptions
Leinakse, Madis; **Kilter, Jako** 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 / 6 p. : ill https://doi.org/10.1109/EPE51172.2020.9269197

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

Coalitional game-based transactive energy management in local energy communities
Feng, Changsen; **Wen, Fushuan**; You, Shi; Li, Zhiyi; Shahnia, Farhad; Shahidehpour, Mohammad IEEE Transactions on Power Systems 2020 / p. 1729 - 1740 https://doi.org/10.1109/TPWRS.2019.2957537 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Coil design for wireless power transfer with series-parallel compensation
Shevchenko, Viktor; **Husev, Oleksandr**; Pakhaliuk, Bohdan; Karlov, Olexii; Kondratenko, Igor 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering (UKRCON) 2019 / p. 401-407 https://doi.org/10.1109/UKRCON.2019.8879877

Coil-to-coil efficiency of ISS-compensated inductive wireless power transfer links operating with load-independent output voltage at fixed frequency
Belenky, A.; **Chub, Andrii**; Kuperman, A. 2023 International Conference on Clean Electrical Power (ICCEP) 2023 / p. 617-621 : ill https://doi.org/10.1109/ICCEP57914.2023.10247404

Combined active frequency drift islanding detection method for NZEB energy router
Jalakas, Tanel; **Roasto, Indrek**; **Najafzadeh, Mahdiyyeh** 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 https://doi.org/10.1109/RTUCON48111.2019.8982258

Combined deterministic algorithm and metaheuristic technique for fast and accurate resolution of optimization problems
Martin, Floran; Aydin, Ugur; Sundaria, Ravi; Rasilo, Paavo; **Belahcen, Anouar** 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 3-4 : ill http://www.compumag.org/CMAG2017/[OA1-2]_131.pdf

Common mode voltage reduction and neutral-point voltage balance for quasi-Z-source three-level neutral-point-clamped inverters
Liu, Wenjie; Yang, Yongheng; Li, Weilin; Zhang, Xiaobin; **Husev, Oleksandr**; **Vinnikov, Dmitri** International Power Electronics Conference (IPEC-Himeji 2022- ECCE Asia) 2022 / p. 934-939 https://doi.org/10.23919/IPEC-Himeji2022-ECCE53331.2022.9806905

Common-ground energy router structure with enhanced reliability and protection = Ühise nulljuhtmega suurendatud töökindluse ja kaitsega energiaruuter
Rahimpour, Saeed 2024 https://doi.org/10.23658/taltech.45/2024 https://www.ester.ee/record=b5694226*est https://digikogu.taltech.ee/et/Item/520b18fc-f0a8-4a08-ade8-d3b890d253ff

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

Community battery sizing for distribution level RES hosting capacity improvement
Peterson, Kristjan; **Shabbir, Noman**; **Astapov, Victor**; **Kütt, Lauri**; **Kamran, Daniel** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p
https://doi.org/10.1109/RTUCON62997.2024.10830871

Comparative analysis of buck-boost inverters based on unfolding circuit versus H5, H6, HERIC topologies
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Vosoughi Kurdkandi, Naser** 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2022 / p. 547-552
https://doi.org/10.1109/SPEEDAM53979.2022.9842282

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 HVAC cable metallic sheath modelling approaches for network studies
Kangro, Triin; **Kilter, Jako**; De Silva, Jeewantha 2018 18th International Conference on Harmonics and Quality of Power (ICHQP 2018) : Ljubljana, Slovenia, 13 – 16 May 2018 2018 / 6 p. : ill https://doi.org/10.1109/ICHQP.2018.8378924

Comparative analysis of intelligent braking controllers for electric vehicles
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Renewable energy and power quality journal 2022 / p. 55-60
https://doi.org/10.24084/repqj20.217 Journal metrics at Scopus Article at Scopus

Comparative analysis of machine learning techniques for non-intrusive load monitoring
Shabbir, Noman; **Vassiljeva, Kristina**; **Hokmabad, Hossein Nourollahi**; **Husev, Oleksandr**; **Petlenkov, Eduard**; **Belikov, Juri** Electronics 2024 / art. 1420 https://doi.org/10.3390/electronics13081420 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative analysis of power quality monitoring systems
Hassan, Syed Rizwan; Rehman, Ateeq Ur; **Shabbir, Noman**; Unbreen, Arooj NFC IEFR journal of engineering and scientific research 2020 / p. 19−23 http://nijesr.com/ojs/index.php/archive/article/view/249

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

Comparative analysis of reliability for string and central inverter PV systems in accordance with the FMECA
Dumnic, Boris; **Liivik, Elizaveta**; Popadic, Bane; Blaabjerg, Frede; Milicevic, Dragan; Katic, Vladimir 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 591-596 https://doi.org/10.1109/PEDG48541.2020.9244404

Comparative analysis of ZigBee based Wireless Sensor Networks (WSNs)
Shabbir, Noman; Hassan, Syed Rizwan; **Iqbal, Muhammad Naveed**; **Kütt, Lauri**; Unbreen, Arooj International journal of recent technology and engineering 2019 / p. 980-984 : ill https://www.ijrte.org/wp-content/uploads/papers/v7i6s/F04000376S19.pdf

Comparative Analysis of ZigBee Based Wireless Sensor Networks (WSNs)
Shabbir, Noman; Hassan, Syed Rizwan; **Iqbal, Muhammad Naveed**; **Kütt, Lauri** Proceeding of the 4th International Conference on Recent Trends in Computer Science and Electronics 2019 2019 / p. 115 http://www.rtcse.org/RTCSE_2019.pdf

Comparative analysis of zigbee based wireless sensor networks (WSNs)
Shabbir, Noman; Hassan, Syed Rizwan; **Iqbal, Muhammad Naveed**; **Kütt, Lauri**; Unbreen, Arooj International journal of recent technology and engineering 2019 / p. 980-984 : ill https://www.ijrte.org/wp-content/uploads/papers/v7i6s/F04000376S19.pdf Journal metrics at Scopus Article at Scopus

Comparative evaluation of a DAB converter and SRC for DC buildings application
Carvalho da Silva, Edivan Laercio; **Chub, Andrii**; **Blinov, Andrei**; Banavath, Satish Naik; **Vinnikov, Dmitri** 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 6 p https://doi.org/10.1109/PEMC61721.2024.10726346

Comparative evaluation of a new flying capacitor-based buck-boost converters for universal application
Hemmati Shahsavar, Tala 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. 65-66 : ill https://www.ester.ee/record=b5504019*est

Comparative evaluation of common-ground converters for dual-purpose application
Hemmati Shahsavar, Tala; **Rahimpour, Saeed**; **Vosoughi Kurdkandi, Naser**; Fesenko, Artem; **Matiushkin, Oleksandr**; **Husev,**

Oleksandr; **Vinnikov, Dmitri** Energies 2023 / art. 2977 https://doi.org/10.3390/en16072977 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative evaluation of dual-purpose converters suitable for application in dc and ac grids
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Jalakas, Tanel**; **Vinnikov, Dmitri**; Vosoughi Kurdkandi, Naser IEEE journal of emerging and selected topics in power electronics 2024 / p. 1337-1347 https://doi.org/10.1109/JESTPE.2023.3243857

Comparative evaluation of isolated dc-dc converters for low power applications
Azizi, Mohammadreza; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Veligorskyi, Oleksandr 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 7-12 https://doi.org/10.1109/PEMC51159.2022.9962944

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 feasibility study of partial power converter for interfacing battery energy storage into power system of future circular collider
Chub, Andrii; Niinemägi, Joosep; Colmenero, Manuel; Aguglia, Davide Proceedings of the Estonian Academy of Sciences 2024 / p. 396-415 https://doi.org/10.3176/proc.2024.4.08

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

Comparative study of field-oriented control model in application for induction and synchronous reluctance motors for life-cycle analysis
Autsou, Siarhei; Saroka, Viktor; Karpovich, Dzmitry; **Rassõlkin, Anton**; **Gevorkov, Levon**; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar**; Rassõlkin, Anton 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill https://doi.org/10.1109/IWED.2018.8321371

Comparative study of inner and outer rotor bearingless synchronous reluctance motors
Mukherjee, Victor; Sokolov, Maxim; Pippuri, Jenni; Hinkkanen, Marko; **Belahcen, Anouar** The journal of engineering 2019 / p. 4375–4379 http://dx.doi.org/10.1049/joe.2018.8195

A comparative study of marginal loss pricing algorithms in electricity markets
Yang, Jiajia; Dong, Zhao Yang; **Wen, Fushuan** IET generation, transmission and distribution 2021 / 13 p. : ill https://doi.org/10.1049/gtd2.12030 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative study of possible implementations of the flexible power electronic interface for wide-range high step-up applications in DC microgrid
Khan, Salman; **Chub, Andrii**; **Vinnikov, Dmitri**; Kasper, Matthias; Deboy, Gerald 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604370

Comparative study of the phase-integrated converter as universal power converter
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; **Vosoughi Kurdkandi, Naser**; Kouro, Samir Annual IEEE Conference on Applied Power Electronics Conference and Exposition (APEC) 2022 / p. 58-63 https://doi.org/10.1109/APEC43599.2022.9773553 Conference Proceedings at Scopus Article at Scopus

A comparison between three-phase conventional two-stage ac-dc and single-stage matrix converter approaches
Mohseni, Parham; **Emiliani, Pietro**; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Mackay, Laurens** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227438

A comparison of a discrete-time PI and an indirect MPC current controllers for a single-phase grid-connected inverter operating with distorted grid and significant computation feedback delay
Pimentel, Sergio Pires; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Stepenko, Serhii**; **Kütt, Lauri**; Rodriguez, Jose 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC) 2019 / 6 p.: ill https://doi.org/10.1109/COBEP/SPEC44138.2019.9065396

Comparison of current harmonic emission by different lighting technologies
Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Shabbir, Noman**; **Asad, Bilal** 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 http://toc.proceedings.com/52742webtoc.pdf

Comparison of decoupling control strategies for multiple active bridge DC-DC converter

Cai, Yicong; Buticchi, Giampaolo; Gu, Chunyang; Li, Jing; **Carvalho da Silva, Edivan Laercio**; Zhang, He 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 https://doi.org/10.1109/CPE-POWERENG58103.2023.10227395

Comparison of deep learning models for multivariate prediction of time series wind power generation and temperature
Mishra, Sambeet; Bordin, Chiara; Taharaguchi, Kota; **Palu, Ivo** Energy reports 2020 / p. 273−286 https://doi.org/10.1016/j.egyr.2019.11.009 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of flux-switching and interior permanent magnet synchronous generators for direct-driven wind applications based on nelder–mead optimal designing
Prakht, Vladimir; Dmitrievskii, Vladimir; Kazakbaev, Vadim; **Andriushchenko, Ekaterina** Mathematics 2021 / art. 732 https://doi.org/10.3390/math9070732 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Comparison of grid-connected flyback-based microinverter with primary and secondary side decoupling approach
Afshari, Hossein; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Matiushkin, Oleksandr**; **Vosoughi Kurdkandi, Naser** 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-6 https://doi.org/10.1109/RTUCON56726.2022.9978855

Comparison of isolated boost full bridge converters for power factor correction application
Zinchenko, Denys; **Blinov, Andrei**; **Vinnikov, Dmitri** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 7 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982361

Comparison of isolated boost full-bridge converters for power factor correction application
Zinchenko, Denys 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. 125-126 : ill https://www.ester.ee/record=b5291755*est

Comparison of machine learning algorithms for classification of partial discharge signals in medium voltage components
Kumar, Haresh; **Shafiq, Muhammad**; Hussain, Ghulam Amjad; Kauhaniemi, Kimmo 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 6 p https://doi.org/10.1109/ISGTEurope52324.2021.9639923

Comparison of machine learning based methods for residential load forecasting
Shabbir, Noman; **Ahmadiahangar, Roya**; **Kütt, Lauri**; **Rosin, Argo** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818267

Comparison of model order reduction methods for a switched reluctance machine characterization
Boumesbah, Allaa Eddine; Martin, Floran; Krebs, Guillaume; **Belahcen, Anouar**; Marchand, Claude IEEE transactions on magnetics 2021 / art. 9355193, 7 p. : ill https://doi.org/10.1109/TMAG.2021.3059969 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of (N+1) redundancy and fault tolerance approaches in single-stage series-connected isolated MVAC to LVDC converters
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Blinov, Andrei**; Bayhan, Sertac; **Vinnikov, Dmitri** 2023 International Conference on Clean Electrical Power (ICCEP) 2023 / p. 469-474 : ill https://doi.org/10.1109/ICCEP57914.2023.10247478

Comparison of performance of phase-shift and asymmetrical pulse width modulation techniques for the novel galvanically isolated buck-boost dc-dc converter for photovoltaic applications
Vinnikov, Dmitri; **Chub, Andrii**; **Kosenko, Roman**; Zakis, Janis; **Liivik, Elizaveta** IEEE journal of emerging and selected topics in power electronics 2017 / p. 624-637 : ill https://doi.org/10.1109/JESTPE.2016.2631628 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of soft switching methods of DC-AC full bridge high-frequency link converter
Korkh, Oleksandr; **Blinov, Andrei**; **Kosenko, Roman**; **Vinnikov, Dmitri** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659898

Comparison of synchronous reluctance machine and permanent magnet-assisted synchronous reluctance machine performance characteristics
Heidari, Hamidreza; **Andriushchenko, Ekaterina**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Demidova, Galina** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia,

January 27-30, 2020 2020 / 5 p. : ill https://doi.org/10.1109/IWED48848.2020.9069583

Comparison of system identification methods applied to analysis of inter-area modes [Online resource]
Tuttelberg, Kaur; **Kilter, Jako**; Uhlen, Kjetil Proceedings of IPST 2017 2017 / art. 17IPST121, p. 1-6 : ill http://www.ipstconf.org/Proc_IPST2017.php

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

A comparison of the vector control of synchronous reluctance motor and permanent magnet-assisted synchronous reluctance motor
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Andriushchenko, Ekaterina**; **Belahcen, Anouar**; Razzaghi, Arash 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 6 p. : ill https://doi.org/10.1109/ACED50605.2021.9462265

Comparison of three-phase three-level voltage source inverter with intermediate dc-dc boost converter and quasi-Z-sourceinverter
Panfilov, Dmitry; **Husev, Oleksandr**; Blaabjerg, Frede; **Zakis, Janis**; Khandakji, Kamal IET Power Electronics 2016 / p. 1238 - 1248 https://doi.org/10.1049/iet-pel.2015.0539 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of voltage buck control methods for series resonant converter
Sidorov, Vadim 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. 55-56 : ill https://www.ester.ee/record=b5457278*est

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

A competitive framework for the participation of multi-microgrids in the community energy trading market: A case study
Zahraoui, Younes; **Korõtko, Tarmo**; **Rosin, Argo**; Zidane, Tekai Eddine Khalil; **Agabus, Hannes**; Mekhilef, Saad IEEE Access 2024 / p. 68232-68248 https://doi.org//10.1109/ACCESS.2024.3399168

Complexities associated with modeling of residential electricity consumption
Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Rosin, Argo** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659812

Compliance assessment of a phasor measurement unit to IEC 61000-4-30 class a for power quality measurements in transmission systems
Löper, Mari; **Kilter, Jako**; Stiegler, Robert; Meyer, Jan 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p https://doi.org/10.1109/PQ.2019.8818272

Compliance testing concept of grid-connected inverter-based resources using simulated input
Dvoracek, Jiri; Drapela, Jiri; Moravek, Jan; Vojtek, Martin; Toman, Petr; **Rassõlkin, Anton**; **Vaimann, Toomas** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / p. 1-6 https://doi.org/10.1109/EPE58302.2023.10149232

Comprehensive comparative analysis of impedance-source networks for DC and AC application
Husev, Oleksandr; Shults, Tatiana; **Vinnikov, Dmitri**; **Chub, Andrii** Electronics 2019 / 21 p. : ill https://doi.org/10.3390/electronics8040405 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comprehensive comparison of grid-connected flyback-based microinverter with primary and secondary side decoupling approach
Afshari, Hossein; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Pourjafar, Saeed**; Kurdkandi, Naser Vosoughi; **Vinnikov, Dmitri** IEEE transactions on industry applications 2024 / p. 9080-9089 https://doi.org/10.1109/TIA.2024.3452069

Comprehensive comparison of isolated high step-up dc-dc converters for low power application
Pourjafar, Saeed; **Afshari, Hossein**; **Mohseni, Parham**; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Shabbir, Noman** IEEE open journal of power electronics 2024 / p. 1149–1161 https://doi.org/10.1109/OJPEL.2024.3433554

A comprehensive market mechanism for decentralized P2P energy trading platform
Zahraoui, Younes; **Korõtko, Tarmo**; **Agabus, Hannes**; **Rosin, Argo** 2024 IEEE 22nd Mediterranean Electrotechnical Conference (MELECON) 2024 / p. 972-977 https://doi.org/10.1109/MELECON56669.2024.10608740

A comprehensive review of standards and best practices for utility grid integration with electric vehicle charging stations
Sachan, Sulabh; Deb, Sanchari; **Singh, Praveen Prakash**; Alam, Mohammad Saad; Shariff, Samir M. Wiley Interdisciplinary Reviews: Energy and Environment 2022 / Art. e424 https://doi.org/10.1002/wene.424 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A comprehensive review on DC fast charging stations for electric vehicles: standards, power conversion technologies, architectures, energy management, and cybersecurity
Arena, Gabriele; **Chub, Andrii**; Lukianov, Mykola; Strzelecki, Ryszard; **Vinnikov, Dmitri**; de Carne, Giovanni IEEE open journal of power electronics 2024 / p. 1573-1611 https://doi.org/10.1109/OJPEL.2024.3466936

Comprison of grid-connected microinverter with primary and secondary side decoupling approach
Afshari, Hossein 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. 57-58 : ill
https://www.ester.ee/record=b5570906*est

Computation of hysteresis torque and losses in a bearingless synchronous reluctance machine
Belahcen, Anouar; Mukhrejee, Victor; Martin, Floran; Rasilo, Paavo 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 214-215 : ill
http://www.compumag.org/CMAG2017/[PA-A5-10]_129.pdf

Computation of hysteresis torque and losses in a bearingless synchronous reluctance machine
Belahcen, Anouar; Mukhrejee, Victor; Martin, Floran; Rasilo, Paavo IEEE transactions on magnetics 2018 / art. 7300804, 4 p. : ill https://doi.org/10.1109/TMAG.2017.2765080 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Computation of magnetic forces using degenerated air-gap element
Sathyan, Sabin; **Belahcen, Anouar**; Kataja, Juhani; Henrotte, Francois; Benabou, Abdelkader; Le Menach, Yvonnick IEEE transactions on magnetics 2017 / 7401304, 4 p. : ill https://doi.org/10.1109/TMAG.2017.2656239

Concept of hardware-in-the-loop test platform for microgrid with multi-agent approach
Kuzin, Aleksei; Lukichev, Dmitry; **Demidova, Galina**; Anuchin, Alecksey 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 https://doi.org/10.1109/RTUCON51174.2020.9316626

Concept of the test Bench for electrical vehicle propulsion drive data acquisition
Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 35-42 : ill
https://doi.org/10.1109/ICEPDS47235.2020.9249078

Concept of universal AC/DC-DC EV onboard battery charger with minimal redundancy and high-power density
Mohseni, Parham 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. 73-74 : ill https://www.ester.ee/record=b5504019*est

Concept of wireless low-voltage DC socket for the residential house application
Shevchenko, Viktor; **Husev, Oleksandr**; **Pakhaliuk, Bohdan**; **Vinnikov, Dmitri**; Strzelecki, Ryszard IEEE Access 2024 / p. 143226-143236 https://doi.org/10.1109/ACCESS.2024.3471691

Concepts of additively manufactured electrical machines and components
Vaimann, Toomas; **Tiismus, Hans**; **Kallaste, Ants** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 6 p https://doi.org/10.1109/EPE58302.2023.10149252

Conceptual modelling of an EV-permanent magnet synchronous motor digital twin
Mohamed, Mahmoud Ibrahim Hassanin; **Rjabtšikov, Viktor**; **Jegorov, Sergei**; **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. 156-160 https://doi.org/10.1109/PEMC51159.2022.9962943

Conceptual test bench for small class unmanned autonomous vehicle performance estimation
Pütsep, Kristjan; **Rassõlkin, Anton**; **Vaimann, Toomas** 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 695-698 : ill
https://doi.org/10.1109/PEMC48073.2021.9432509

Condition monitoring and diagnostic of electrical machines using IoT and machine learning
Raja, Hadi Ashraf 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. 31-32 : ill https://www.ester.ee/record=b5504019*est

Condition monitoring and fault detection for electrical machines using IOT
Raja, Hadi Ashraf; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Proceedings of the Future Technologies Conference (FTC) 2022. Volume 2 2023 / p. 162-173 https://doi.org/10.1007/978-3-031-18458-1_12 Conference proceedings at Scopus Article at

Scopus

Condition monitoring of a Cartesian robot with a mechanically damaged gear to create a fuzzy logic control and diagnosis algorithm
Autsou, Siarhei; **Kudelina, Karolina**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Applied sciences 2024 / art. 4241 https://doi.org/10.3390/app14104241

Condition monitoring of electrical machines and its relation to IoT
Vaimann, Toomas 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. 55-56 : ill https://www.ester.ee/record=b5183874*est

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

Configurable PCB to teach DC-DC converters in power electronics
Roasto, Indrek 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. 19-20 : ill https://www.ester.ee/record=b5291755*est

Congestion control strategies for increased renewable penetration of photovoltaic in LV distribution networks
Shabbir, Noman; **Kütt, Lauri**; **Astapov, Victor**; **Husev, Oleksandr**; **Ahmadiahangar, Roya**; **Wen, Fushuan**; **Kull, Karl** Energy reports 2022 / p. 217-223 https://doi.org/10.1016/j.egyr.2022.10.184 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

Constrained algorithm for the selection of uneven snapshots in model order reduction of a bearingless motor
Mukherjee, Victor; Far, Mehrnaz Farzam; Martin, Floran; **Belahcen, Anouar** IEEE transactions on magnetics 2017 / art. 7205304, 4 p. : ill http://dx.doi.org/10.1109/TMAG.2017.2664505

Constructing aggregated time series data for energy system model analyses
Koduvere, Hardi 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. 163-164 : ill https://www.ester.ee/record=b5291755*est

Continuous monitoring of power system inertia and transmission loss components using synchronized phasor measurements = Elektrisüsteemi inertsi ja ülekandekadude komponentide pidev jälgimine faasimõõtmiste abil
Tuttelberg, Kaur 2018 https://digi.lib.ttu.ee/i/?10732 https://www.ester.ee/record=b5151804*est

Contribution of nano- and microgrids to topological power plants regarding voltage and frequency control = Nano- ja mikrovõrkude mõju topoloogilistele elektrijaamadele pinge ja sageduse juhtimise kontekstis
Helguero Cruz, Jorge Luis 2023 https://doi.org/10.23658/taltech.60/2023 https://digikogu.taltech.ee/et/Item/ccf279f0-5c4e-4784-a6d7-a8c310ac489b https://www.ester.ee/record=b5641245*est

Contributions to ventilation system demand response: a case study of an educational building
Maask, Vahur; **Mikola, Alo**; **Korõtko, Tarmo**; **Rosin, Argo**; **Thalfeldt, Martin** E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 11001, 6 p https://doi.org/10.1051/e3sconf/202124611001 Conference Proceedings at Scopus Article at Scopus Article at WOS

Control challenges of 3D printed switched reluctance motor
Rassõlkin, Anton; **Kallaste, Ants**; **Vaimann, Toomas**; **Tiismus, Hans** 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia 30th of January - 02nd of February 2019 : proceedings 2019 / 5 p. : ill https://doi.org/10.1109/IWED.2019.8664282

Control features of multicell-type current regulator for resistance welding
Verbytskyi, Ievgen; Bondarenko, Oleksandr; **Liivik, Elizaveta** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [5] p. : ill https://doi.org/10.1109/RTUCON.2017.8124846

Control of a three-input DC-DC converter suitable for DC motors
Alizadeh Asl, Amin; Hosseini, Seyed Hossein; **Vosoughi Kurdkandi, Naser**; Alizadeh Asl, Ramin International transactions on

electrical energy systems 2022 / art. 4264649, 20 p. : ill https://doi.org/10.1155/2022/4264649 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Control of bidirectional grid-forming inverter for nearly zero energy buildings
Roasto, Indrek; **Jalakas, Tanel**; **Rosin, Argo** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659848

Control of pick-and-place robots with reduced power consumption
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** 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 / 4 p https://doi.org/10.1109/RTUCON60080.2023.10413180

Control of radial increment and winding density of composite cylindrical shells
Kutin, Aleksei; **Arjassov, Gennadi**; **Vu, Trieu Minh**; Musalimov, Victor; Moezzi, Reza; Cyrus, Jindrich MM science journal 2020 / p. 4149−4153 https://doi.org/10.17973/MMSJ.2020_11_2020058 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Controlled bidirectional DC circuit breaker with zero negative current for high load shift applications
Raghavendra I, Venkata; Naik, Satish B.; Sreekanth, Thamballa; **Chub, Andrii** IEEE transactions on industry applications 2022 / p. 6942-6951 https://doi.org/10.1109/TIA.2022.3193345 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Controller design for interleaved bidirectional dc-dc converter with coupled inductors
Tytelmaier, Kostiantyn; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Khomenko, Maksym; Khomenko, Oleh 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 570-573 : ill https://doi.org/10.1109/UKRCON.2017.8100306

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

Conversion error of exponential to second order polynomial ZIP load model conversion
Leinakse, Madis; **Kilter, Jako** 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / p. 1-5 https://doi.org/10.1109/EEEIC.2018.8493667

Conversion error of second order polynomial ZIP to exponential load model conversion
Leinakse, Madis; **Kilter, Jako** Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2018) : Dubrovnik, Croatia, 12-15 November 2018 2018 / 5 p https://doi.org/10.1049/cp.2018.1882

Converter state-space model estimation using dynamic mode decomposition
Suskis, Pavels; Zakis, Janis; Suzdalenko, Alexander; Khang, Huynh Van; **Rassõlkin, Anton**; **Vaimann, Toomas**; Pomarnacki, Raimondas 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 5 l https://doi.org/10.1109/ENERGYCON53164.2022.9830201

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

Coordinated optimization of parameters of PSS and UPFC-PODCs to improve small-signal stability of a power system with renewable energy generation
He, Ping; Shen, Runjie; **Wen, Fushuan**; Pan, Qi Journal of energy engineering 2021 / p. 04020089-1-04020089-11 : ill https://doi.org/10.1061/(ASCE)EY.1943-7897.0000737 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Coordinated planning strategy for integrated energy systems in a district energy sector
Yang, Wentao; Liu, Weijia; Chung, Chi Yung; **Wen, Fushuan** IEEE Transactions on sustainable energy 2020 / p. 1807-1819 https://doi.org/10.1109/TSTE.2019.2941418

A coordinated strategy for multi-machine power system stability
Ghasemi-Marzbali, Ali; **Ahmadiahangar, Roya** Applied Soft Computing 2021 / art. 07742, 16 p. : ill https://doi.org/10.1016/j.asoc.2021.107742 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Correcting systematic errors in corona losses measured with phasor measurement units
Tuttelberg, Kaur; **Löper, Mari**; **Kilter, Jako** IEEE transactions on power delivery 2019 / p. 2275-2277 : ill
https://doi.org/10.1109/TPWRD.2019.2917610 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Corrections to "Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines"
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; **Kallaste, Ants**; Marques Cardoso, Antonio J.; **Belahcen, Anouar**; **Vaimann, Toomas**; **Tiismus, Hans**; **Asad, Bilal** IEEE Access 2021 / p. 62532 https://doi.org/10.1109/ACCESS.2021.3074827 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cost/comfort-oriented clustering-based extended time of use pricing
Azizi, Elnaz; Shotorbani, R.; **Ahmadiahangar, Roya**; Mohammadi-Ivatloo, B.; **Rosin, Argo**; Sadiq, R. Sustainable cities and society 2021 / art. 102673, 10 p. : ill https://doi.org/10.1016/j.scs.2020.102673 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A cost-effective electric vehicle intelligent charge scheduling method for commercial smart parking lots using a simplified convex relaxation technique
Jawad, Muhammad; Qureshi, Muhammad Bilal; Ali, Sahibzada Muhammad; **Shabbir, Noman**; Khan, Muhammad Usman; Aloraini, Afnan; Nawaz, Raheel Sensors 2020 / p. 1-19 https://doi.org/10.3390/s20174842 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cost-effective piggyback forward dc-dc converter
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Afshari, Hossein**; **Vinnikov, Dmitri**; **Strzelecki, Ryszard** 2024 IEEE Applied Power Electronics Conference and Exposition (APEC) 2024 / p. 2106-2111 https://doi.org/10.1109/APEC48139.2024.10509355 Conference proceedings at Scopus Article at Scopus Article at WOS

Cost-efficient improvement of power system's reliability within limited funds
Andreesen, Guido; **Leinakse, Madis**; **Kilter, Jako**; **Landsberg, Mart** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p https://doi.org/10.1109/RTUCON62997.2024.10830808

Cost-efficient real-time condition monitoring and fault diagnostics system for BLDC motor using IoT and Machine learning
Raja, Hadi Ashraf; **Raval, Hardik**; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; Belahcen, Anouar Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : conference proceedings 2022 / 4 p.
https://doi.org/10.1109/Diagnostika55131.2022.9905102

Creating digital twins fo electric vehicles using Unity 3D, Unreal Engine, and Nvidia Omniverse : a comprehensive overview
Rjabtšikov, Viktor 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. 21-22 : ill
https://www.ester.ee/record=b5570906*est

Critical parameter analysis and design of the Quasi-Z-Source inverter
Liu, Wenjie; Yang, Yongheng; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Blaabjerg, Frede 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 474-480 : ill
https://doi.org/10.1109/UKRCON.2019.8879831

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

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

Current harmonics sensitivity analysis
Daniel, Kamran 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. 89-90 : ill https://www.ester.ee/record=b5504019*est

Current practice on power quality legislation within European transmission systems – results from Horizon 2020 project MIGRATE
Kilter, Jako; **Trummal, Tarmo**; **Löper, Mari**; **Palu, Ivo** 2020 19th International Conference on Harmonics and Quality of Power (ICHQP), 6-7 July 2020, Dubai, UAE 2020 https://doi.org/10.1109/ICHQP46026.2020.9177907

Current situation and prospect of grid codes for a power system with integrated photovoltaic generation
Duan, Shuyin; Zhang, Shuyan; **Wen, Fushuan**; Shania, Farhad; **Palu, Ivo**; Zou, Bo; Dai, Pan 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 832-836 https://doi.org/10.1109/SGES51519.2020.00153

A current spectrum-based algorithm for fault detection of electrical machines using low-power data acquisition devices
Asad, Bilal; **Raja, Hadi Ashraf**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang Electronics 2023 / art. 1746 https://doi.org/10.3390/electronics12071746 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Current-fed dual inductor push-pull partial power converter
Abdelrahim Abdelghafour, Omar Mohamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Blinov, Andrei** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 327-332 https://doi.org/10.1109/PEMC51159.2022.9962937

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

Curricula reforms through structural reforms
Vaimann, Toomas; **Rassõlkin, Anton**; **Palu, Ivo** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 1-5 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249084

Curricula updates through students' participation in international competition
Valme, Daniil; **Belolipetskaja, Diana**; **Rassõlkin, Anton**; **Leoste, Janika**; **Rüütmann, Tiia** Robotics in education : proceedings of the RiE 2024 conference 2024 / p. 352-364 https://doi.org/10.1007/978-3-031-67059-6_31 Conference proceedings at Scopus Article at Scopus Article at WOS

Custom simplified machine learning algorithms for fault diagnosis in electrical machines
Raja, Hadi Ashraf; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; Belahcen, Anouar Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p. https://doi.org/10.1109/Diagnostika55131.2022.9905174

Cyber attacks on power system automation and protection and impact analysis
Rajkumar, Vetrivel Subramaniam; **Tealane, Marko**; Stefanov, Alexandru; Presekal, Alfan; Palensky, Peter Proceedings of 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 247–254 https://doi.org/10.1109/ISGT-Europe47291.2020.9248840

Cyber attacks on protective relays in digital substations and impact analysis
Rajkumar, Vetrivel Subramaniam; **Tealane, Marko**; Stefanov, Alexandru; Palensky, Peter 8th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems(MSCPES), Virtual Workshop, online, from April 21, 2020 : proceedings 2020 / 6 p. : ill https://doi.org/10.1109/MSCPES49613.2020.9133698

Cyber contingencies impacts analysis in cyber physical power system
Chen, Keren; **Wen, Fushuan**; **Palu, Ivo** IEEE International Conference on Energy Internet : ICEI 2019, Nanjing, China, 27-31 May, 2019 : proceedings 2019 / p. 37-41 : ill http://doi.org/10.1109/ICEI.2019.00013

Cyber-physical microgrids : toward flexible energy districts
Rosin, Argo; **Ahmadiahangar, Roya**; Martins, Joao; Sahoo, Subham; Blaabjerg, Frede Cyber Security for Microgrids 2022 / p. 161-178 : ill https://doi.org/10.1049/PBPO196E_ch8

Cylindrical blades Magnus wind turbine optimization and control system
Alassaf, Omar; Lukin, Aleksandr; **Demidova, Galina**; Kozlov, Gleb; Volkhontsev, Andrey; Poliakov, Nikolai 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1-5 https://doi.org/10.1109/IWED54598.2022.9722582

Damping characteristics of interconnected power systems with wind-photovoltaic-thermal-bundled power transmitted by AC/DC systems
He, Ping; Li, Zhao; Zheng, Mingmimg; **Wen, Fushuan**; Ji, Yugi; Wu, Xinxin Journal of energy engineering 2021 / p. 04021029-1-04021029-10 : ill https://doi.org/10.1061/(ASCE)EY.1943-7897.0000765 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Data analysis of building sensors for efficient energy management and future trends in the EU
Crasta, Cletus J.; **Agabus, Hannes** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p. : ill https://doi.org/10.1109/PQ.2019.8818242

Data science-based techniques for modelling and diagnostics of battery cells based on end-of-life criteria
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / 6 p https://doi.org/10.1109/EDPE58625.2023.10274007

Data-driven approaches based microwave filter tuning - a review
Sekhri, Even; **Tamre, Mart**; Kapoor, Rajiv Advances in Artificial-Business Analytics and Quantum Machine Learning : Select Proceedings of the 3rd International Conference, Com-IT-Con 2023, Volume 2 2024 / p. 273-286 https://doi.org/10.1007/978-981-97-4860-0_22 Conference proceedings at Scopus Article at Scopus

Data-driven asset management and condition assessment methodology for transmission overhead lines = Ülekandevõrgu õhuliinide andmepõhine varahalduse ja seisundi hindamise metoodika
Manninen, Henri 2022 https://doi.org/10.23658/taltech.4/2022 https://digikogu.taltech.ee/et/Item/b0c60eaf-b740-4df5-bead-0dd793d5e6c8 https://www.ester.ee/record=b5491207*est

Data-driven risk preference analysis in day-ahead electricity market
Zhao, Huan; Zhao, Junhua; Qiu, Jing; Liang, Gaoqi; **Wen, Fushuan**; Xue, Yusheng; Dong, Zhao Yang IEEE transactions on smart grid 2021 / p. 2508-2517 : ill https://doi.org/10.1109/TSG.2020.3036525

Day-ahead economical planning of multi-vector energy district considering demand response program
Ghasemi-Marzbali, Ali; Shafiei, Mohammad; **Ahmadiahangar, Roya** Applied energy 2023 / art. 120351 https://doi.org/10.1016/j.apenergy.2022.120351 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Day-ahead PV output power forecasting utilizing boosting recursive lightGBM-LSTM framework
Hokmabad, Hossein Nourollahi; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Belikov, Juri**; **Petlenkov, Eduard** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p https://doi.org/10.1109/ISGTEUROPE56780.2023.10408090

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

DC fast charging of electric vehicles : a review on architecture and power conversion technology
Arena, Gabriele; **Emiliani, Pietro**; **Chub, Andrii**; **Vinnikov, Dmitri**; de Carne, Giovanni 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227492

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

DC grid interface converter based on three-phase isolated matrix topology with phase-shift modulation
Emiliani, Pietro 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. 53-54 : ill https://www.ester.ee/record=b5504019*est

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

Dc leakage current in isolated grid-connected dc nanogrid - origins and elimination methods
Azizi, Mohammadreza; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Turzvnski, Marek; Strzelecki, Ryszard 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604426

DC microgrid: state of art, driving force, challenges and perspectives
Husev, Oleksandr; **Vinnikov, Dmitri** Power Systems Research and Operation : Selected Problems III 2024 / p. 149-190 https://doi.org/10.1007/978-3-031-44772-3_8 Article collection metrics at Scopus Article at Scopus

DC nano grid control in the residential energy router with the presence of constant power loads
Najafzadeh, Mahdiyyeh; **Vinnikov, Dmitri**; **Husev, Oleksandr**; **Roasto, Indrek** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / p. 1-6 https://doi.org/10.1109/ENERGYCON53164.2022.9830523

The DC transformer power electronic building block : powering next-generation converter design
Flores-Bahamonde, Freddy; Renaudineau, Hugues; **Chub, Andrii** IEEE industrial electronics magazine 2023 / p. 21-35 https://doi.org/10.1109/MIE.2022.3147168 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

DC voltage sensorless predictive control of a high-efficiency PFC single-phase rectifier based on the versatile buck-boost converter
González-Castaño, Catalina; Restrepo, Carlos; Sanz, Fredy; **Chub, Andrii**; Giral, Roberto Sensors 2021 / art. 5107 https://doi.org/10.3390/s21155107 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

DC-DC перетворювач з широким діапазоном забезпечення режиму природної комутації в нулях напруги
Blinov, Andrei; **Vinnikov, Dmitri**; Ivakhno, Volodymyr; Zamaruiev, 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 : іл 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

DC-ready flyback-based micro-converter
Afshari, Hossein; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604344

DC-ready photovoltaic solar converter
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Kurnitski, Jarek** PCIM Europe 2023 : Conference proceedings 2023 / 7 p https://doi.org/10.30420/566091094 Conference proceedings at Scopus Article at Scopus

Dead-beat-based model predictive current control for the dual-purpose dc-dc/ac PWM modular power converter
Roncero-Clemente, Carlos; Escalona, Javier-Gutierrez; Pires, V. Fernao; **Matiushkin, Oleksandr**; Milanes-Montero, Maria Isabel; Romero-Cadaval, Enrique 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604328

Decarbonization dispatching strategy for electric vehicles based on life cycle analysis
Li, Zhonghui; Xu, Chengwei; Deng, Qing; **Wen, Fushuan**; **Palu, Ivo** 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 5 p. : ill https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160631

A decentralized distribution market mechanism considering renewable generation units with zero marginal costs
Yang, Jiajia; Dong, Zhao Yang; **Wen, Fushuan**; Chen, Guo; Qiao, Yichen IEEE Transactions on Smart Grid 2020 / p. 1724 - 1736 https://doi.org/10.1109/TSG.2019.2942616 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Decentralized privacy-preserving operation of multi-area integrated electricity and natural gas systems with renewable energy resources
Qi, Feng; Shahidehpour, Mohammad; **Wen, Fushuan**; Li, Zhiyi; He, Yubin; Yan, Mingyu IEEE Transactions on sustainable energy 2020 / p. 1785-1796 https://doi.org/10.1109/TSTE.2019.2940624

Decomposition model of contract for difference considering market power mitigation
Xu, Chengwei; Pang, Kaiyuan; **Wen, Fushuan**; **Palu, Ivo**; Gong, Jianrong; Xie, Yuzhe; Chen, Cheng 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 5 p https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160725

Deep Learning methodology for charging management applications in battery cells based on Neural Networks
Zequera, Rolando Antonio Gilbert; **Rjabtšikov, Viktor**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** IEEE Transactions on Intelligent Vehicles 2025 / p. 668-682 https://doi.org/10.1109/TIV.2024.3417216

Deep reinforcement learning for automated tuning of cavity filters
Sekhri, Even; **Tamre, Mart**; Kapoor, Rajiv Proceedings of ieeeforum International Conference 2019 / p. 53 http://www.digitalxplore.org/up_proc/pdf/408-154943387153.pdf

Defining the light-technical parameters and applying the recommended measuring methods for creating the smart

crossings
Varjas, Toivo; **Möller, Taavi**; **Rosin, Argo** 17th International Symposium “Topical Problems in the Field of Electrical and Power Engineering”. Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 111-113 : ill http://ise.elnet.ee/record=b2950028~S2*est

Demand-side Flexibility in Smart Grid
Ahmadiahangar, Roya; **Rosin, Argo**; **Palu, Ivo**; Azizi, Aydin 2020 https://doi.org/10.1007/978-981-15-4627-3

Demonstration of mitigation measures and clarification of unclear grid code requirements : Deliverable D1.6 [Online resource]
Rüberg, S.; Sewdien, V.; Rueda Torres, J. L.; **Kilter, Jako** 2019 Deliverable D1.6

Denoising and extraction of partial discharge pulse characteristics using wavelet denoising and local maxima method
Choudhary, Maninder; **Palu, Ivo**; **Kiitam, Ivar**; Shafiq, Muhammad; **Taklaja, Paul**; Bhattarai, Abhinav 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 221-225 https://doi.org/10.1109/PECon62060.2024.10827085

Deployment of sustainable and smart urban lighting
Korõtko, Tarmo; Bunte, Heike; Tallo, Eva; Šponberga, Ieva; Potrykus, Yolanda; Nurulin, Yury; Axelsen, Teddy Sibbern https://lucia-project.eu/wp-content/uploads/2022/04/LUCIA-Compendium-vol2.pdf

Description of practical load harmonic current emission due to voltage harmonic variation
Daniel, Kamran; **Kütt, Lauri**; **Iqbal, Muhammad Naveed**; **Shabbir, Noman**; **Jarkovoi, Marek** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1–6 https://doi.org//10.1109/RTUCON53541.2021.9711594

Design and analysis of a DC solid-state circuit breaker for energy router application : [conference paper]
Rahimpour, Saeed 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. 63-64 : ill https://www.ester.ee/record=b5504019*est

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

Design and applications of Rogowski coil sensors for power system measurements : a review
Shafiq, Muhammad; Stewart, Brian G.; Hussain, Ghulam Amjad; Hassan, Waqar; **Choudhary, Maninder**; **Palo, Ivo** Measurement : journal of the International Measurement Confederation 2022 / art. 112014, 10 p.: ill https://doi.org/10.1016/j.measurement.2022.112014 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design and control for high reliability power electronics: state of the art and future trends
Alcaide, A. M.; Buticchi, Giampaolo; **Chub, Andrii**; **Dalessandro, L.** IEEE journal of emerging and selected topics in industrial electronics 2024 / p. 50-61 https://doi.org/10.1109/JESTIE.2023.3287513

Design and Control of Bidirectional Step-Up/Down Partial Power Converters for DC Microgrid Applications = Alalisvoolu mikrovõrkudele osavõimsuse töötlusega kahesuunalise tõste-langetusmuunduri projekteerimine ja juhtimine
Hassanpour, Naser 2025 https://www.ester.ee/record=b5746961*est https://digikogu.taltech.ee/et/Item/daec7687-5e83-467e-8e6a-45b1e4a15a64 https://doi.org/10.23658/taltech.30/2025

Design and discretization of multi-resonant current controllers
Elkayam, Moria Sassonker; **Vinnikov, Dmitri** 2024 19th Conference on Ph.D Research in Microelectronics and Electronics (PRIME) 2024 / 4 p https://doi.org/10.1109/PRIME61930.2024.10559737

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

Design and implementation of a mechatronic elbow orthosis
Minh, Vu Trieu; **Tamre, Mart**; Safonov, Aleksei; Musalimov, Victor; Kovalenko, Pavel; Monakhov, Iurii Mechatronic Systems and Control 2020 / p. 231 - 238 https://doi.org/10.2316/J.2020.201-0056 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design and implementation of a smart mechatronic elbow brace
Vu, Trieu Minh; **Tamre, Mart**; **Safonov, Aleksei**; Musalimov, Victor; Kovalenko, Pavel; Monakhov, Iurii Handbook of research on advanced mechatronic systems and intelligent robotics 2020 / p. 1-18 : ill https://doi.org/10.4018/978-1-7998-0137-5.ch001

Design and implementation of intelligent ground vechicle safety systems of high robustness to varying environmental and human factors
Aksjonov, Andrei 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. 107-108 https://www.ester.ee/record=b5183874*est

Design and optimization of permanent magnet generator with outer rotor for wind turbine application = Tuuleagregaadis kasutatava välisrootoriga püsimagnetgeneraatori projekteerimine ja optimeerimine
Kudrjavtsev, Oleg 2017 https://digi.lib.ttu.ee/i/?7662 https://www.ester.ee/record=b4671603*est

Design and performance of laser additively manufactured core induction motor
Tiismus, Hans; **Kallaste, Ants**; **Naseer, Muhammad Usman**; **Vaimann, Toomas**; **Rassõlkin, Anton** IEEE Access 2022 / p. 50137-50152 https://doi.org/10.1109/ACCESS.2022.3173317 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design and prototyping of directly driven outer rotor permanent magnet generator for small scale wind turbines [Online resource]
Vaimann, Toomas; **Kudrjavtsev, Oleg**; **Kilk, Aleksander**; **Kallaste, Ants**; **Rassõlkin, Anton** Advances in electrical and electronic engineering 2018 / p. 271-278 : ill https://doi.org/10.15598/aeee.v16i3.2698 Journal metrics at Scopus Article at Scopus

Design and resonance analysis of tubular structured dual stator linear oscillating actuator
Ahmad, Zahoor; **Kallaste, Ants**; **Vaimann, Toomas**; **Sardar, Muhammad Usman** 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p https://doi.org/10.1109/ICEM60801.2024.10700213

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

Design and simulations of dual clutch transmission for hybrid electric vehicles
Vu, Trieu Minh; **Abouelkheir, Moustafa** International journal of electric and hybrid vehicles 2017 / p. 302-321 : ill https://doi.org/10.1504/IJEHV.2017.089873 Journal metrics at Scopus Article at Scopus

Design and testing of an universal autonomous surface vehicle
Roasto, Indrek; **Jalakas, Tanel**; **Mõlder, Heigo**; **Möller, Taavi**; **Tabri, Kristjan**; Enok, Mart 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 705-710 : ill https://doi.org/10.1109/PEMC48073.2021.9432567

Design considerations of dual-active bridge DC grid-forming converter for DC buildings
Carvalho da Silva, Edivan Laercio; **Sidorova, Aleksandra**; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / p. 10601-10611 https://doi.org/10.1109/TIE.2023.3331125

Design for accelerated testing of DC-link capacitors in photovoltaic inverters based on mission profiles
Sangwongwanich, Ariya; Shen, Yanfeng; **Chub, Andrii**; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Wang, Huai; Blaabjerg, Frede IEEE transactions on industry applications 2021 / p. 741−753 https://doi.org/10.1109/TIA.2020.3030568 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design issues of SSCBs for residential DC microgrid
Jalakas, Tanel; **Chub, Andrii**; **Roasto, Indrek**; **Vinnikov, Dmitri** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p https://doi.org/10.1109/RTUCON62997.2024.10830826

Design of a research laboratory drive system for a synchronous reluctance motor for vector control and performance analysis
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Andriushchenko, Ekaterina**; **Belahcen, Anouar** Inventions 2021 / art. 64, 21 p. : ill https://doi.org/10.3390/inventions6040064 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of a wearable mechatronic brace
Vu, Trieu Minh; **Tamre, Mart**; Safonov, Aleksei; Kovalenko, Pavel; Monahov, Juri 17th International Symposium “Topical Problems in the Field of Electrical and Power Engineering”. Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 9-13 : ill http://ise.elnet.ee/record=b2949854~S2*est

Design of an additively manufactured polymer composite electrical machine
Sarap, Martin; **Kallaste, Ants**; **Naseer, Muhammad Usman**; **Tiismus, Hans**; **Rjabtšikov, Viktor**; **Ghahfarokhi, Payam Shams**; **Vaimann, Toomas**; Aman, Alexander; Kutia, Mykhailo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227413

Design of an additively manufactured thermal solution for an axial flux switched reluctance motor
Sarap, Martin; Singh, Shalini; **Kallaste, Ants**; Jawad Qureshi, Ahmed Jawad; **Tiismus, Hans**; **Vaimann, Toomas**; Shams Ghahfarokhi, Payam Case studies in thermal engineering 2025 / art. 105805 https://doi.org/10.1016/j.csite.2025.105805

Design of high frequency transformer for isolated bridge-type PFC converter
Zinchenko, Denys; **Blinov, Andrei**; **Vinnikov, Dmitri**; Ormisson, Andres 2020 IEEE 4th International Conference on Intelligent Energy and Power Systems (IEPS), 06.07.2020 - 10.07.2020, Istanbul, Turkey 2020 / 8 p. : ill https://doi.org/10.1109/IEPS51250.2020.9263134

Design of LCL-filter for grid-connected buck-boost inverter based on unfolding circuit
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Kütt, Lauri** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818248

Design of multiphase single-switch impedance-source converters
Chub, Andrii; **Vinnikov, Dmitri**; **Liivik, Liisa**; **Jalakas, Tanel**; **Blinov, Andrei** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 3718-3724 : ill https://doi.org/10.1109/IECON.2018.8591361

Design of performance characteristics on laser treated denim fabric
Mandre, Nele; **Plamus, Tiia**; **Linder, Angelika**; **Varjas, Toivo**; **Majak, Jüri**; **Krumme, Andres** The materials science = Medžiagotyra 2023 / 10 p. : ill https://doi.org/10.5755/j02.ms.33259 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of regenerative anti-lock braking system controller for 4 in-wheel-motor drive electric vehicle with road surface estimation
Aksjonov, Andrei; **Vodovozov, Valery**; Augsburg, Klaus; **Petlenkov, Eduard** International journal of automotive technology 2018 / p. 727-742 : ill https://doi.org/10.1007/s12239-018-0070-8 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of rotors for synchronous reluctance motor : analytical treatment and optimization
Orlova, Svetlana; Pugachov, Vladislav; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), 3-5 Sept. 2019, Genova, Italy : proceedings 2019 / 9 p. : ill https://doi.org/10.23919/EPE.2019.8914760

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

Design optimization methods of additively manufactured Switched Reluctance Motor = Kihtlisandustehnoloogia abil toodetud samm-mootori optimeerimise meetodid
Andriushchenko, Ekaterina 2023 https://doi.org/10.23658/taltech.16/2023 https://digikogu.taltech.ee/et/Item/382b9eea-7bd1-4140-b124-9f0b580e81bc https://www.ester.ee/record=b5558664*est

Design optimization of 3D-printed permanent magnet clutch
Andriushchenko, Ekaterina 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 31-32 : ill https://www.ester.ee/record=b5457278*est

Design optimization of permanent magnet clutch
Andriushchenko, Ekaterina; **Kallaste, Ants**; **Belahcen, Anouar**; **Heidari, Hamidreza**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2020 International Conference on Electrical Machines (ICEM), 23-26 August 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 436−440 https://doi.org/10.1109/ICEM49940.2020.9270726

Design optimization of permanent magnet clutch with Ārtap framework
Andriushchenko, Ekaterina; Kaska, Jan; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton** Periodica polytechnica electrical engineering and computer science 2021 / p. 106-112 https://doi.org/10.3311/PPee.17007 Journal metrics at Scopus Article at Scopus

Design procedure and preliminary analysis for the introduction of axial asymmetry in the synchronous reluctance machines
Naseer, Muhammad Usman 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. 33-34 : ill https://www.ester.ee/record=b5570906*est

A detailed testing procedure of numerical differential protection relay for EHV auto transformer
Ehsan, Umer; Jawad, Muhammad; Javed, Umar; Zaidi, Khurram Shabih; Rehman, Ateeq Ur; **Rassõlkin, Anton**; Althobaiti, Maha M.;

Hamam, Habib; **Shafiq, Muhammad** Energies 2021 / art. 8447 https://doi.org/10.3390/en14248447 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Detection and evaluation of driver distraction using machine learning and fuzzy logic
Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery**; **Petlenkov, Eduard**; Herrmann, Martin IEEE Transactions on Intelligent Transportation Systems 2019 / p. 2048 - 2059 https://doi.org/10.1109/TITS.2018.2857222 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of core losses using an inverse modeling technique
Osemwinyen, Osaruyi; Hemeida, Ahmed; **Ghahfarokhi, Payam Shams**; **Belahcen, Anouar** IEEE Access 2022 / p. 29224-29232 https://doi.org/10.1109/ACCESS.2022.3158365 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of forced convection coefficient over a flat side of coil
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [4] p. : ill https://doi.org/10.1109/RTUCON.2017.8124759

Determination of heat transfer coefficient for the air forced cooling over a flat side of coil
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 15-20 : ill https://doi.org/10.2478/ecce-2019-0003

Determination of heat transfer coefficient from housing surface of a totally enclosed fan-cooled machine during passive cooling
Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; Belahcen, Anouar; **Vaimann, Toomas**; **Asad, Bilal**; **Tiismus, Hans** Machines 2021 / art. 120 https://doi.org/10.3390/machines9060120 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of heat transfer coefficient of finned housing of a TEFC variable speed motor
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; Podgornovs, Andrejs; **Belahcen, Anouar**; **Vaimann, Toomas**; **Asad, Bilal** Electrical Engineering 2021 / p. 1009–1017 : ill https://doi.org/10.1007/s00202-020-01132-1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of natural convection heat transfer coefficient over the fin side of a coil system
Shams Ghahfarokhi, Payam; **Belahcen, Anouar**; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** International journal of heat and mass transfer 2018 / p. 677-682 : ill https://doi.org/10.1016/j.ijheatmasstransfer.2018.05.071 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of thermal convection coefficient from coil's flat plate side
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Belahcen, Anouar** 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. 130-132 : ill http://www.ester.ee/record=b4650094*est

Determining cost-efficient sequence of condition inspection based on estimated condition data
Andreesen, Guido; **Leinakse, Madis**; **Kilter, Jako**; **Landsberg, Mart** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p https://doi.org/10.1109/ISGTEUROPE62998.2024.10863436

Determining optimisation framework for local energy communities
Drovtar, Imre; **Korõtko, Tarmo**; Mutule, Anna; Kairisa, Evita; **Rosin, Argo** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 7 p https://doi.org/10.1109/ENERGYCON53164.2022.9830444

Determining the thermal conductivity of additively manufactured metal specimens
Sarap, Martin; **Kallaste, Ants**; **Ghahfarokhi, Payam Shams**; **Tiismus, Hans**; **Vaimann, Toomas** 2022 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / 4 p https://doi.org/10.1109/IWED54598.2022.9722591

Development and application of energy producing solar pavement in Estonia
Jalakas, Tanel; **Chub, Andrii**; **Vinnikov, Dmitri**; **Spalatu, Nicolae**; **Gudkova, Viktoria**; **Krunks, Malle**; **Mere, Arvo**; Lahi, Allan 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p. : ill https://doi.org/10.1109/RTUCON56726.2022.9978908

Development and testing of vertical take-off and landing aerial vehicle with tandem electric ducted fan motor
Pütsep, Kristjan; **Nerep, Tõivo**; **Tiismus, Hans**; **Rassõlkin, Anton** Proceedings of the Estonian Academy of Sciences 2023 / p. 184–193 https://doi.org/10.3176/proc.2023.2.08 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Aricle at WOS

Development and utilization of synthetic signals for fault diagnostics of electrical machines
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** IEEE journal of

emerging and selected topics in industrial electronics 2024 / 9 p https://doi.org/10.1109/JESTIE.2024.3395650

Development and validation of reactive power regulator for synchronous generator using industrial controller and real-time digital simulator
Trummal, Tarmo 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. 165-166 : ill

Development case study of the first Estonian self-driving car, ISEAUTO
Rassõlkin, Anton; **Sell, Raivo**; **Leier, Mairo** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 81-88 : ill https://doi.org/10.2478/ecce-2018-0009

Development methodology for creating the digital twin for propulsion drive of an electric vehicle = Elektrisõiduki veoajami digitaalse kaksiku arendusmetoodika
Rjabtšikov, Viktor 2024 https://www.ester.ee/record=b5685462*est https://digikogu.taltech.ee/et/Item/6cbd2dba-76a5-4931-a9f3-53b9d4d87c1e https://doi.org/10.23658/taltech.29/2024

Development of a battery sizing tool for nearly zero energy buildings
Ahmadiahangar, Roya; **Husev, Oleksandr**; **Blinov, Andrei**; Karami, Hossein; **Rosin, Argo** IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society 2020 / p. 5149-5154 : ill https://doi.org/10.1109/IECON43393.2020.9254557 Conference proceeding Article at Scopus Article at WOS

Development of a power electronics controller with RISC-V based core for security-critical applications
Swakath, S. U.; Kshirsagar, Abhijit; Kondepu, Koteswararao; Banavath, Satish Naik; **Chub, Andrii**; **Vinnikov, Dmitri** 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-5 https://doi.org/10.1109/RTUCON56726.2022.9978737

Development of a Substation Risk-Based Asset Management Decision-Making Process in the Case of Insuffcient Information = Alajaama riskipõhise varahalduse otsustusprotsessi arendamine ebapiisava sisendteabe tingimustes
Andreesen, Guido 2025 https://www.ester.ee/record=b5754736*est https://digikogu.taltech.ee/et/Item/49e349b9-c62b-4a9e-af14-5c8408e54028 https://doi.org/10.23658/taltech.52/2025

Development of a wireless communication network for monitoring and controlling of autonomous robots
Vu, Trieu Minh; **Tamre, Mart**; Musalimov, Victor; Kovalenko, Pavel; Monahov, Juri International journal of robotics and automation 2018 / 16 p https://doi.org/10.2316/Journal.206.2018.3.206-4759 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of an axial flux SRM through additive manufacturing
Hussain, Shahid; **Kallaste, Ants**; **Naseer, Muhammad Usman**; **Tiismus, Hans**; **Vaimann, Toomas** 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p https://doi.org/10.1109/ICEM60801.2024.10700569

Development of analytical thermal analysis tool for synchronous reluctance motors
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; **Podgornovs, Andrejs**; **Belahcen, Anouar**; **Vaimann, Toomas** IET electric power applications 2020 / p. 1828-1836 https://doi.org/10.1049/iet-epa.2020.0237 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of control methods for synchronous reluctance motors = Sünkroonreluktantsmootorite juhtimismeetodite edasiarendus
Heidari, Hamidreza 2022 https://doi.org/10.23658/taltech.8/2022 https://digikogu.taltech.ee/et/Item/f249726a-f96c-4d94-b892-afc9ae4fda9e https://www.ester.ee/record=b5491774*est

Development of digital twin for robotic arm
Bratchikov, Sterpan; Abdullin, Artur; **Demidova, Galina**; Lukichev, Dmitry 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 717-723 https://doi.org/10.1109/PEMC48073.2021.9432535

Development of dual clutch transmission model for hybrid vehicle
Abouelkheir, Moustafa International Journal of Innovative Technology and Interdisciplinary Sciences : IJITIS 2018 / p. 26-33 : ill https://doi.org/10.15157/IJITIS.2018.1.1.26-33

Development of emerging technology-driven NordPlus competence network in the Baltic and Nordic regions
Kunicina, Nadezhda; Bruzgien, Rasa; Narbutaite, Lina; **Rassõlkin, Anton**; **Mohamed, Mahmoud Ibrahim Hassanin**; Balandin, Sergey 2024 35th Conference of Open Innovations Association (FRUCT) : proceedings Proceedings of the 2024 / p. 407-412 : ill https://doi.org/10.23919/FRUCT61870.2024.10516359

Development of experimental load management system for nearly zero-energy building
Maask, Vahur; **Rosin, Argo**; **Roasto, Indrek** 59th Annual International Scientific Conference on Power and Electrical Engineering :

November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill https://doi.org/10.1109/RTUCON.2018.8659826

Development of mutal recognition of education approach in advanced computer-oriented engineering technologies in the Baltic region
Kunicina, Nadezhda; **Rassõlkin, Anton**; Bruzgiene, Rasa; Plonis, Darius; Caiko, J. 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/RTUCON60080.2023.10413098

Development of new requirements for outdoor advertisement screens
Varjas, Toivo 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. 231-232 : ill https://www.ester.ee/record=b5183874*est

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

Development of realtime co-simulation platform harnessing consumer energy flexibility through an aggregator to provide grid support
Shabbir, Noman; **Ahamadihangar, R**; **Rosin, Argo**; **Kilter, Jako**; Martins, Joao IEEE Transactions on Consumer Electronics 2024 https://doi.org/10.1109/TCE.2024.3470241

Development of robust participation strategies for an aggregator of electric vehicles in multiple types of electricity markets
Liu, Weijia; **Wen, Fushuan**; Dong, ZhaoYang; **Palu, Ivo** Energy Conversion and Economics 2020 / p. 104-123 https://doi.org/10.1049/enc2.12010

Development of TalTech flexible virtual power plant to aggregate demand-side flexibility
Ahmadiahangar, Roya 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. 17-18 https://www.ester.ee/record=b5291755*est

Development of the reconfigurable continuous track robot
Valme, Daniil 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. 15-16 : ill https://www.ester.ee/record=b5504019*est

Development of thermal analysis tools for synchronous reluctance motors = Soojusanalüüsi töövahendi väljaarendus sünkroon-reluktantsmootorile
Shams Ghahfarokhi, Payam 2019 https://digi.lib.ttu.ee/i/?12288 https://www.ester.ee/record=b5233445*est

Development prospects of the oil shale industry under conditions of renewable and low-carbon energy policy = Põlevkivitööstuse arenguperspektiivid taastuvenergia ja madala süsinikuheitmega tehnoloogia arendamise poliitika tingimustes
Pulkkinen, Svetlana 2019 https://digi.lib.ttu.ee/i/?12019 https://www.ester.ee/record=b5227428*est

A DFT-based approach for condition monitoring of switch-mode power converters
Kütt, Lauri; **Tiivel, Tuuli**; **Parker, Martin**; **Valgur, Laur**; **Jarkovoi, Marek**; **Chub, Andrii** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p https://doi.org/10.1109/RTUCON62997.2024.10830915

Diagnostic possibilities of induction motor bearing currents
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Demidova, Galina**; Karpovich, Dzmitry 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 5 p. : ill https://doi.org/10.1109/ACED50605.2021.9462298

Diagnostics analysis of partial discharge events of the power cables at various voltage levels using ramping behavior analysis method
Mishra, Sambeet; **Singh, Praveen Prakash**; **Kiitam, Ivar**; **Shafiq, Muhammad**; **Palu, Ivo**; Bordin, Chiara Electric power systems research 2024 / art. 109988 https://doi.org/10.1016/j.epsr.2023.109988

Digitaalkaksikud diagnostika rakenduseks
Vaimann, Toomas Elektriala 2023 / lk. 24-25 https://www.ester.ee/record=b1240496*est

Digitaalsete elektrivõrkude lävel : [noorteadlaste konkursi Teadus kolme minutiga ettekanne]
Uuemaa, Madis Teadus kolme minutiga : 2017-2019 2019 / lk. 144-147 : portr., ill https://www.ester.ee/record=b5245642*est

Digital control of PFC rectifier with combined feedforward and PI regulator
Verbytskyi, Ievgen; **Blinov, Andrei**; **Emiliani, Pietro**; Galkin, Ilja IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 https://doi.org/10.1109/IECON49645.2022.9968509 Conference proceedings at Scopus Article at Scopus

Digital control strategy for interleaved quasi-Z-source inverter with with active power decoupling
Stepenko, Serhii; **Husev, Oleksandr**; **Pires Pimentel, Sergio**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Makovenko, Elena** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 3725-3730 : ill

Digital shadow of an electric vehicle-permanent magnet synchronous motor drive for real-time performance monitoring
Mohamed, Mahmoud Ibrahim Hassanin; **Rjabtšikov, Viktor**; **Rassõlkin, Anton** Digital twins and applications 2025 / 12 p https://doi.org/10.1049/dgt2.12024

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

Digital twin based computational methods for XR applications = Digitaalkaksikute põhised arvutuslikud meetodid XR rakenduste jaoks
Alsaleh, Saleh Ragheb Saleh 2024 https://doi.org/10.23658/taltech.15/2024 https://www.ester.ee/record=b5674508*est https://digikogu.taltech.ee/et/Item/557fefce-a06a-479b-bc30-70910085d23d

Digital twin development of an EV-permanent magnet synchronous motor as a virtual torque sensor
Mohamed, Mahmoud Ibrahim Hassanin 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. 23-24 https://www.ester.ee/record=b5504019*est

Digital twin for propulsion drive of autonomous electric vehicle
Rassõlkin, Anton X Międzynarodowa Konferencja "Nauki społeczne i techniczne – zakres współpracy na rzecz postępu społecznego i technologicznego" 2020 / p. [36-37] : ill https://mcbi.pl/wp-content/uploads/2020/06/skrypt_abstrakty_mailing-1.pdf

Digital twin for propulsion drive of autonomous electric vehicle
Rassõlkin, Anton; **Kuts, Vladimir**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982326

Digital twin of an electrical motor based on empirical performance model
Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; Partyshev, Andriy 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 11-14 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249366

Digital twin of wind generator for modelling various turbine characteristics
Raja, Hadi Ashraf; **Autsou, Siarhei**; **Kudelina, Karolina**; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / p. 1-5 https://doi.org/10.1109/EDPE58625.2023.10274050

Digital twin of wind generator to simulate different turbine characteristics using IoT
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang Proceedings of the Future Technologies Conference (FTC) 2023. Vol. 1 2023 / p. 123-132 https://doi.org/10.1007/978-3-031-47454-5_9 Conference proceedings at Scopus Article at Scopus

Digital twin service unit development for an EV induction motor fault detection
Rjabtšikov, Viktor; **Mohamed, Mahmoud Ibrahim Hassanin**; **Asad, Bilal**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; Stepien, Mariusz; Krawczyk, Mateusz 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p https://doi.org/10.1109/IEMDC55163.2023.10239085

Digital Twin service unit for AC motor stator inter-turn short circuit fault detection
Rjabtšikov, Viktor; **Rassõlkin, Anton**; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; **Jegorov, Sergei**; Stępien, Mariusz; Krawczyk, Mateusz 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 https://doi.org/10.1109/IWED52055.2021.9376328

Digital twin simulations based reinforcement learning for navigation and control of a wheel-on-leg mobile robot
Alsaleh, Saleh Ragheb Saleh; **Tepljakov, Aleksei**; **Tamre, Mart**; **Kuts, Vladimir**; **Petlenkov, Eduard** Proceedings of ASME 2022 International Mechanical Engineering Congress and Exposition (IMECE2022), 2B: Columbus, Ohio, USA, October 30 - November 3, 2022 2022 / art. IMECE2022-95411, V02BT02A025, 8 p https://doi.org/10.1115/IMECE2022-95411

Digital twin-based EV permanent magnet synchronous motor for condition monitoring
Mohamed, Mahmoud Ibrahim Hassanin 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. 19-20 : ill https://www.ester.ee/record=b5570906*est

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

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing
Sarap, Martin 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. 31-32 : ill https://www.ester.ee/record=b5570906*est

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing
Sarap, Martin; **Kallaste, Ants**; **Ghahfarokhi, Payam Shams**; **Tiismus, Hans**; **Vaimann, Toomas** 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 4 p https://doi.org/10.1109/IEMDC55163.2023.10238858

"Discount" - the renewable energy production impact on electricity price
Ulm, Lauri; **Koduvere, Hardi**; **Palu, Ivo** 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 https://doi.org/10.1109/RTUCON51174.2020.9316611

Distance learning in technical education on example of Estonia and Poland
Vaimann, Toomas; Stepien, Mariusz; **Rassõlkin, Anton**; **Palu, Ivo** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 285-288 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249317

Distantsõppest tehnikahariduses
Vaimann, Toomas; **Palu, Ivo** Elektriala 2020 / lk. 10-12 : portr http://www.ester.ee/record=b1240496*est

Distorted grid and significant computation feedback delay
Pimentel, Sergio Pires; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Stepenko, Serhii**; **Kütt, Lauri**; Rodriguez, Jose 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC 2019) Santos, Brazil, 1-4 December 2019 2019 / p. 1481-1486 http://toc.proceedings.com/52923webtoc.pdf

Distributed average integral control based energy management model
Shaukat, Neelofar; Khan, Bilal; Qureshi, Muhammad Bilal; Jawad, Muhammad; **Shabbir, Noman**; **Daniel, Kamran** 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 5 p https://doi.org/10.1109/ETFG55873.2023.10407358

Distributed energy laboratory concept focused on power electronics units
Poliakov, Nikolai; **Demidova, Galina**; **Zolov, Pavel** International Conference on Electromechanical and Power Systems (SIELMEN) 2021 / p. 387-392 https://doi.org/10.1109/SIELMEN53755.2021.9600330

Distributed energy systems : design, modeling, and control
2022 https://www.taylorfrancis.com/books/edit/10.1201/9781003229124/distributed-energy-systems-ashutosh-giri-sabha-raj-arya-dmitri-vinnikov

Distributed optimal storage strategy in the ADMM-based peer-to-peer energy trading considering degradation cost
Han, Binghui; **Zahraoui, Younes**; Mubin, Marizan; Mekhilef, Saad; **Korõtko, Tarmo**; Alshammari, O. Journal of energy storage 2024 / art. 112651 https://doi.org/10.1016/j.est.2024.112651

Distributed price-based power management for multibuses DC nanogrids EEMS
Carvalho da Silva, Edivan Laercio; Bellinaso, Lucas V.; Cardoso, Rafael; Michels, Leandro IEEE journal of emerging and selected topics in power electronics 2022 / p. 5509-5521 https://doi.org/10.1109/JESTPE.2022.3152101 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Distribution transformer frequency response analysis : behavior of different statistical indices during inter-disk fault
Nurmanova, Venera; Sultanbek, Adilet; Bagheri, Mehdi; **Ahmadiahangar, Roya** 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 6 p. : ill https://doi.org/10.1109/EEEIC.2019.8783252

Dmitri Vinnikov, tehnika- ja arvutiteadused [Võrguväljaanne]
Vinnikov, Dmitri Eesti Teaduste Akadeemia : Youtube kanal 2021 / video Dmitri Vinnikov, tehnika- ja arvutiteadused

Doktorantide läbipõlemine suretab Eesti teaduse

Vaimann, Toomas postimees.ee 2025 https://arvamus.postimees.ee/8236689/toomas-vaimann-doktorantide-labipolemine-suretab-eesti-teaduse

Domain decomposition approach for efficient time-domain finite-element computation of winding losses in electrical machines
Lehikoinen, Antti; Ikäheimo, Jouni; Arkkio, Antero; **Belahcen, Anouar** IEEE transactions on magnetics 2017 / art. 7400609, 9 p. : ill https://doi.org/10.1109/TMAG.2017.2681045

Double deep Q-Learning approach for tuning microwave cavity filters using locally linear embedding technique
Sekhri, Even; Kapoor, Rajiv; **Tamre, Mart** 2020 International Conference Mechatronic Systems and Materials (MSM) 2020 / 6 p. : ill https://doi.org/10.1109/MSM49833.2020.9202393

Driver distraction detection and evaluation with artificial neural network and fuzzy logic : In-vehicle information system as a driver's secondary activity: case study
Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery**; **Petlenkov, Eduard** 2018 IEEE 15th International Workshop on Advanced Motion Control (AMC 2018) 2018 / p. 523–528 : ill Driver distraction detection and evaluation with artificial neural network and fuzzy logic : In-vehicle information system as a driver's secondary activity: case study

Driver distraction while performing a secondary task evaluation approach based on fuzzy expert system
Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery**; **Petlenkov, Eduard**; Herrmann, Martin 2017 / p. 1-27 : ill https://www.etis.ee/File/DownloadPublic/9fe35346-efcf-4429-af04-ba8325dc1480?name=GSVF2017-Aksjonov.pdf&type=application%2Fpdf https://www.gsvf.at/index.php/en/program-2017

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

Droop control with incorporated dead zone for indirect energy management in DC nanogrids
Roasto, Indrek; **Blinov, Andrei**; **Vinnikov, Dmitri** 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 6 p https://doi.org/10.1109/PEMC61721.2024.10726394

A Dual-arm robot for collaborative vision-based object classification
Zahavi, Ali; **Najafi Haeri, Shahriar**; **Chamara Liyanage, Dhanushka**; **Tamre, Mart** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 https://doi.org/10.1109/BEC49624.2020.9277067

A dual-buck-boost DC–DC/AC universal converter
Ong, Yao Rong; Cao, Shuyu; Lee, Sze Sing; Lim, Chee Shen; Chen, Max M.; **Vosoughi Kurdkandi, Naser**; Barzegarkhoo, Reza; Siwakoti, Yam P. Electronics (Switzerland) 2022 / art. 1973 https://doi.org/10.3390/electronics11131973 Journal metrics at scopus Article at Scopus Journal metrics at WOS Article at WOS

Dual-Mode magnetically integrated photovoltaic microconverter with adaptive mode change and global maximum power point tracking
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Korkh, Oleksandr**; **Rosin, Argo**; Babaei, Ebrahim IET renewable power generation 2021 / p. 86-98 https://doi.org/10.1049/rpg2.12007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Dual-purpose converters for DC or AC grid as energy transition solution : perspectives and challenges
Husev, Oleksandr; **Vinnikov, Dmitri**; Kouro, Samir; Blaabjerg, Frede; Roncero-Clemente, Carlos IEEE industrial electronics magazine 2023 https://doi.org/10.1109/MIE.2022.3230219

Dynamic characteristic evaluation of a 600V reverse blocking IGBT device
Korkh, Oleksandr; **Blinov, Andrei** Advances in Information, Electronic and Electrical Engineering (AIEEE) : proceedings of the 5th IEEE Workshop, november 24-25, 2017, Riga, Latvia 2018 / p. 1-5 : ill https://doi.org/10.1109/AIEEE.2017.8270527

Dynamic network tariff in practices : key issues and challenges
Singh, Praveen Prakash; **Wen, Fushuan**; **Palu, Ivo** 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON) 2021 / p. 1-6 https://doi.org/10.1109/GUCON50781.2021.9573767

Dynamic reconfiguration for wide output voltage range isolated buck-boost PFC converter
Verbytskyi, Ievgen; **Nadeem, Mohammad Mahad**; **Blinov, Andrei**; **Carvalho da Silva, Edivan Laercio**; **Chub, Andrii**; **Vinnikov, Dmitri** 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 5 p. : ill https://doi.org/10.1109/SPEC56436.2023.10407792

Dynamic state space model based analysis of a three-phase induction motor using nonlinear magnetization inductance
Asad, Bilal; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2018 19th International Scientific Conference on Electric

Power Engineering (EPE 2018) : Brno, Czech Republic, 16 - 18 May 2018 2018 / p. 260-265 : ill
https://doi.org/10.1109/EPE.2018.8396039

Economic analysis and impact on national grid by domestic photovoltaic system installations in Pakistan
Shabbir, Noman; Usman, Muhammad; Jawad, Muhammad; Zafar, Muhammad H.; **Iqbal, Muhammad Naveed**; **Kütt, Lauri** Renewable energy 2020 / p. 509-521 : ill https://doi.org/10.1016/j.renene.2020.01.114 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Economic feasibility analysis for a residential building in Tallinn with high electricity consumption. A case study with suitable energy storage for the Estonian climate
Rikkas, Elina Rebecka 2020 17th International Conference on the European Energy Market (EEM) 2020 / 5 p
https://doi.org/10.1109/EEM49802.2020.9221961

An economical optimization for the participation of a residential microgrid in flexibility markets providing ancillary services
Alvi, Anas Abdullah; Gonzalez-Romera, Eva; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Milanes-Montero, Maria Isabel; Barrero-Gonzalez, Fermin 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604394

Eddy current loss reduction prospects in laser additively manufactured soft magnetic cores
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1511-1516 https://doi.org/10.1109/ICEM51905.2022.9910679

Educating the energy informatics specialist : opportunities and challenges in light of research and industrial trends
Bordin, Chiara; **Mishra, Sambeet**; Safari, Amir; Eliassen, Frank SN Applied Sciences 2021 / art. 674 https://doi.org/10.1007/s42452-021-04610-8 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

EDUTECH - good practices in cooperation between schools and academia attracting candidates for technical education
Rassõlkin, Anton; **Vaimann, Toomas**; **Kudelina, Karolina**; Stepien, Mariusz; Berger, Kevin 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 https://doi.org/10.1109/RTUCON51174.2020.9316614

Eessõna
Vaimann, Toomas; **Risthein, Endel** Eesti energeetika 100 aastat 2018 / lk. 9-10 https://www.ester.ee/record=b4774821*est

Eesti elektri tarbimiskaja ja tootva tarbimise simulatsioonianalüüs : uuringuaruanne
Kisel, Einari; **Kuhi-Thalfeldt, Reeli**; **Agabus, Hannes**; **Veskioja, Kaija** 2024 https://arenguseire.ee/wp-content/uploads/2024/06/2024_eesti-elektri-tarbimiskaja-ja-tootva-tarbimise-simulatsioonianaluus_uuring.pdf

Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227/ Lep 15066 lõpparuanne [Võrguteavik]
Treufeldt, Ülo; **Meldorf, Mati**; **Leinakse, Madis**; **Sarnet, Tanel**; **Salumäe, Uku**; **Kilter, Jako**; Krusell, Kaur; Reinson, Andrus; Matjas, Ilja 2017 Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud

Eesti elektritootmise tulevikuvõimalustest
Koduvere, Hardi; **Tammoja, Heiki** Elektriala 2019 / lk. 8-9 : ill http://www.ester.ee/record=b1240496*est https://artiklid.elnet.ee/record=b2877865*est

Eesti elektrivõrkude ajalugu
2020 https://www.ester.ee/record=b5298769

Eesti Elektroenergeetika Seltsi juubelikonverents
Palu, Ivo; Pent, Brenda Elektriala 2022 / lk. 14-16 : fot https://www.ester.ee/record=b1240496*est

Eesti energeetika 100 aastat
Vaimann, Toomas; **Risthein, Endel** 2018 https://www.ester.ee/record=b4774821*est

Eesti energiasüsteemi lahtiühendamisest ning selle otstarbekusest
Raukas, Anto; **Valdma, Mati** Elektriala 2017 / lk. 12-13 https://artiklid.elnet.ee/record=b2829412*est

Eesti esimene mehitamata teaduslaev oskab iseseisvalt navigeerida
err.ee 2023 Hundipea sadamas lasti vette Eesti esimene isejuhtiv laev Eesti esimene mehitamata teaduslaev oskab iseseisvalt navigeerida Hundipea sadamast väljus Eesti esimene isejuhtiv tehisintellektiga teaduslaev Heli

Eesti mesindus vajab uuendatud arengukava
Kilk, Aleksander Mesinik : mesindusajakiri 2024 / lk. 4-5 https://www.ester.ee/record=b1072594*est

Eesti noorte teaduste akadeemia valis uue juhatuse
sirp.ee 2025 https://www.sirp.ee/eesti-noorte-teaduste-akadeemia-valis-uue-juhatuse-2/

Eesti talv ja tootja promo: millised on tegelikud väljakutsed elektriautode akude arendamisel? Teemat avab TalTechi professor
Rassõlkin, Anton digi.geenius.ee 2024 Eesti talv ja tootja promo: millised on tegelikud väljakutsed elektriautode akude arendamisel? Teemat avab TalTechi professor

Eesti teadlaste nutikad minimuundurid hoogustavad energiapööörеt
Vinnikov, Dmitri; **Chub, Andrii** novaator.err.ee 2024 Eesti teadlaste nutikad minimuundurid hoogustavad energiapööörеt

Eesti Teadus- ja Tehnikamuuseum ootab tasuvusuuringut
Kamps, Mari Inseneeria 2017 / lk. 44-47 : fot https://artiklid.elnet.ee/record=b2820595*est

Eesti tööstus on tarka võrku investeerimisel õigel teel, kuid napib insenere : ABB podcast
geenius.ee 2024 Eesti tööstus on tarka võrku investeerimisel õigel teel, kuid napib insenere : ABB podcast

Eesti Vabariik 100 : TEA entsüklopeedia eriväljaanne
Alatalu, Riin; **Engelbrecht, Jüri**; **Gerndorf, Kostel**; **Hamburg, Arvi**; **Lumiste, Rünno**; **Nõlvak, Jaak**; **Orru, Mall** 2017
http://www.ester.ee/record=b4748911*est

Eesti vajab kõrgtehnoloogilist tööstust
Alvela, Ain Tehnikamaailm 2023 / lk. 76 : fot https://www.ester.ee/record=b1073050*est

Eestlaslik trots tõmbab tuuleenergiale pidurit
Vaaks, Eveliis Trialoog 2025 https://trialoog.taltech.ee/eestlaslik-trots-tombab-tuuleenergiale-pidurit/

EETEL 25 kui mittetulundusühing
Teemets, Raivo Elektriala 2020 / lk. 10 http://www.ester.ee/record=b1240496*est

EETELi sünnilugu. Kevadel loodud ühendus sai bürokraatia pidurite tõttu ametlikuks alles talvel
Elektriala 2025 / lk. 54-55 : fot, portr https://www.ester.ee/record=b1240496*est

The effect of build direction on the thermal conductivity of additively manufactured AlS10Mg and silicon-steel samples
Sarap, Martin; **Kallaste, Ants**; **Shams Ghahfarokhi, Payam**; **Tiismus, Hans**; **Vaimann, Toomas** 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 538-543 https://doi.org/10.1109/ICEM51905.2022.9910944

The effect of build direction on the thermal conductivity of additively manufactured AlS10Mg and silicon-steel samples : [conference paper]
Sarap, Martin 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. 29-30 : ill https://www.ester.ee/record=b5504019*est

Effect of double-slope modulation signals on conducted emissions and efficiency of strongly coupled magnetic resonance WPT systems
Stepins, Deniss; Zakis, Janis; Audze, Janis; **Husev, Oleksandr**; Shevchenko, Viktor; Pakhaliuk, Bohdan 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2019 / 4 p
https://doi.org/10.1109/RTUCON48111.2019.8982351

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

Effect of electrode shape on medium voltage covered conductor insulation durability under electric stress
Kiitam, Ivar; **Taklaja, Paul**; **Tuttelberg, Kaur** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill
https://doi.org/10.1109/RTUCON.2018.8659862

Effect of hybrid modulation on performance of wireless battery charger operating in CC/CV mode
Stepins, Deniss; Kathari, N.; Zakis, Janis; **Husev, Oleksandr**; Pakhaliuk, 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

Effect of Magnetic Forces and Magnetostriction on the Stator Vibrations of a Bearingless Synchronous Reluctance Motor
Mukherjee, Victor; Rasilo, Paavo; Martin, Floran; **Belahcen, Anouar** IEEE transactions on magnetics 2019 / 4 p. : ill
https://doi.org/10.1109/TMAG.2019.2894739 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of mechanical stress on magnetization and magnetostriction strain behavior of non-oriented Si-Fe steels at different directions and under pseudo-DC conditions
Lahyaoui, Otmane; Lanfranchi, Vincent; Buiron, Nicolas; Martin, Floran; Aydin, Ugur; **Belahcen, Anouar** International journal of applied electromagnetics and mechanics 2019 / p. 299-312 https://doi.org/10.3233/JAE-180106

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

Effect of multi-axial stress on iron losses of electrical steel sheets
Aydin, Ugur; Rasilo, Paavo; Martin, Floran; **Belahcen, Anouar** Journal of magnetism and magnetic materials 2019 / p. 19-27 : ill https://doi.org/10.1016/j.jmmm.2018.08.003

Effects of stator core welding on an induction machine – measurements and modeling
Sundaria, Ravi; Daem, Andries; Osemwinyen, Osaruyi; Lehikoinen, Antti; Sergeant, Peter; Arkkio, Antero; **Belahcen, Anouar** Journal of Magnetism and Magnetic Materials 2020 / art. 166280 https://doi.org/10.1016/j.jmmm.2019.166280 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Efficiency and loss distribution analysis of the 3L-Active NPC qZS inverter
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Fernao Pires, Vitor; **Husev, Oleksandr** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 449-454 : ill https://doi.org/10.1109/CPE.2018.8372560

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

Efficiency map comparison of induction and synchronous reluctance motors
Rassõlkin, Anton; **Heidari, Hamidreza**; **Kallaste, Ants**; **Vaimann, Toomas**; Acedo, Jaime Pando; Romero-Cadaval, Enrique 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January – 2nd of February 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/IWED.2019.8664334

Efficiency study of the single-phase solar qZS-based inverter
Husev, Oleksandr; **Stepenko, Serhii**; **Vinnikov, Dmitri**; Roncero, Carlos; Santasheva, Elena; Romero-Cadaval, Enrique IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4399-4404 https://doi.org/10.1109/IECON.2019.8926655 Conference proceedings at Scopus Article at Scopus Article at WOS

An efficient assistance in cavity filter tuning using filter screw classification
Sekhri, Even; **Tamre, Mart**; Kapoor, Rajiv Advances in artificial-business analytics and quantum machine learning : select proceedings of the 3rd international conference, Com-IT-Con 2023, volume 1 2024 / p. 791-799 https://doi.org/10.1007/978-981-97-2508-3_58 Conference proceedings at Scopus Article at Scopus

Efficient fixed-switching modulated finite control set-model predictive control based on artificial neural networks
Bakeer, Abualkasim Ahmed Ali; Alhasheem, Mohammed; Peyghami, Saeed Applied Sciences (Switzerland) 2022 / art. 3134 https://doi.org/10.3390/app12063134 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Ehitiste elektripaigaldised. Osa 5-51, Elektriseadmete valik ja paigaldamine. Üldjuhised = Electrical installations of buildings. Part 5-51, Selection and erection of electrical equipment. Common rules (IEC 60364-5-51:2005, modified)
2017 https://www.evs.ee/tooted/evs-hd-60364-5-51-2009+a11+a12

Ehitiste elektripaigaldised. Osa 5-51, Elektriseadmete valik ja paigaldamine. Üldjuhised [Võrguteavik] = Electrical installations of buildings. Part 5-51, Selection and erection of electrical equipment. Common rules
2017 http://www.ester.ee/record=b4741638*est

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 https://www.ester.ee/record=b5183874*est

Einari Kisel: ilustamata elektrivarustuskindlusest [Võrguväljaanne]
Kisel, Einari postimees.ee 2020 "Einari Kisel: ilustamata elektrivarustuskindlusest"

Einari Kisel: puhtama elektri poole [Võrguväljaanne]
Kisel, Einari postimees.ee 2020 Einari Kisel: puhtama elektri poole

Eksperdid: päikesetormide mõju pärast tänapäeval enam muretsema ei pea
Piir, Rait novaator.err.ee 2024 Eksperdid: päikesetormide mõju pärast tänapäeval enam muretsema ei pea

Electric and hybrid vehicles : From smart energy storage systems to mechanical transmission
Sekhri, Even; **Mohamed, Mahmoud Ibrahim Hassanin**; **Zequera, Rolando Antonio Gilbert**; **Rassõlkin, Anton** Smart Electric and Hybrid Vehicles : Advancements in Materials, Design, Technologies, and Modeling 2025 / p. 71-126 https://doi.org/10.1002/9781394225040.ch3

Electric drive for throttle control of centrifugal pump system
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill https://doi.org/10.1109/RTUCON.2018.8659845

Electric power management and control in DC buildings—state-of-the-art and emerging technologies
Blinov, Andrei; **Roasto, Indrek**; **Chub, Andrii**; **Emiliani, Pietro**; **Vinnikov, Dmitri** Power Quality : Infrastructures and Control 2023 / p. 67-96 https://doi.org/10.1007/978-981-19-7956-9_3

Electric vehicle electric drive signal analysis and mapping of direct control possibilities
Rassõlkin, Anton; **Sell, Raivo**; Tihhonov, Kirill Международная научно-техническая конференция : АВТОМАТИЧЕСКИЙ КОНТРОЛЬ И АВТОМАТИЗАЦИЯ ПРОИЗВОДСТВЕННЫХ ПРОЦЕССОВ, 3-6 октября, 2018 г. : ПРОГРАММА КОНФЕРЕНЦИИ 2018 / p. 9 https://www.belstu.by/Portals/0/userfiles/37/000-PROGRAMMA-konf--APP-2018.pdf

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

Electrical and mechanical properties of service-aged medium voltage porcelain support insulators
Kiitam, Ivar; **Saarna, Mart**; **Taklaja, Paul**; **Tealane, Marko**; **Palu, Ivo** 2020 6th IEEE International Energy Conference (ENERGYCon) 2020 / p. 702-706 https://doi.org/10.1109/ENERGYCon48941.2020.9236596

Electrical and thermal anisotropy in additively manufactured AlSi10Mg and Fe-Si samples
Sarap, Martin; **Tiismus, Hans**; **Kallaste, Ants**; **Saarna, Mart**; **Kolnes, Märt**; Shams Ghahfarokhi, Payam; **Vaimann, Toomas** Machines 2025 / art. 1 https://doi.org/10.3390/machines13010001

Electrical machine research in TalTech
Vaimann, Toomas 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. 39-40 : ill https://www.ester.ee/record=b5291755*est

Electrical resistivity of additively manufactured silicon steel for electrical machine fabrication
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818252

Electricity market regulation: Global status, development trend, and prospect in China
Xu, Chengwei; **Wen, Fushuan**; **Palu, Ivo** Energy Conversion and Economics 2020 / p. 151-170 https://doi.org/10.1049/enc2.12020

An electrolytic capacitor-less multiple-output LED driver with a universal input voltage
Awad, Khaled; **Abdelrahim Abdelghafour, Omar Mohamed**; Gaafar, Mahmoud A.; Orabi, Mohamed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 6 l. https://doi.org/10.1109/ENERGYCON53164.2022.9830255

Elektri võrgutasu jääb kerkima ka järgmistel aastatel
Linnart, Mart err.ee 2024 Elektri võrgutasu jääb kerkima ka järgmistel aastatel

Elektriala doktoritöödest Tallinna Tehnikaülikoolis 1.
Vaimann, Toomas Elektriala 2022 / lk. 12-13 : fot https://www.ester.ee/record=b1240496*est

Elektriala doktoritöödest Tallinna Tehnikaülikoolis 2.
Vaimann, Toomas Elektriala 2022 / lk. 16-17 : fot https://www.ester.ee/record=b1240496*est

Elektriala saamislugu
Teemets, Raivo Elektriala 2024 / lk. 24-29 https://www.ester.ee/record=b1240496*est

Elektrienergia tootmise ja tarbimise jaotus on maailmas tunduvalt muutunud
Risthein, Endel Elektriala 2018 / lk. 28-30 https://artiklid.elnet.ee/record=b2859358*est

Elektrimasinate alused
Janson, Kuno; **Kallaste, Ants** 2017 http://www.ester.ee/record=b4694078*est https://digikogu.taltech.ee/et/Item/eb44ad2b-8758-41cd-9483-f8fdb1d40a1c

Elektrimasinate soojusarvutus on uute masinate projekteerimisel määrava tähtsusega
Vaimann, Toomas Elektriala 2020 / lk. 12-13 : ill http://www.ester.ee/record=b1240496*est

Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt [Võrguväljaanne]
Kudelina, Karolina novaator.err.ee 2021 "Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt"

Elektrimootorite 3D-printimine ei ole ulme
Vaimann, Toomas; **Kallaste, Ants** Director. Inseneeria 2021 / lk. 74-78 : fot https://director.ee/2021/02/03/elektrimootorite-3d-printimine-ei-ole-ulme/ http://www.ester.ee/record=b2336521*est

Elektrimõõteseadmed. Osa 4, Erinõuded. Staatilised alalisvoolu aktiivenergia arvestid (klassid A, B ja C) = Electricity metering equipment. Part 4, Particular requirements. Static meters for DC active energy (class indexes A, B and C)
2023 https://www.ester.ee/record=b5652954*est

Elektrimõõteseadmed vahelduvvoolule. Osa 1, Üldnõuded, katsetused ja katsetingimused. Klassidesse A, B ja C kuuluvad arvestid [Võrguteavik] = Electricity metering equipment (a.c.). Part 1, General requirements, tests and test conditions. Metering equipment (class indexes A, B and C)
2019 https://www.ester.ee/record=b5201299*est

Elektrimõõteseadmed vahelduvvoolule. Osa 1, Üldnõuded, katsetused ja katsetingimused. Klassidesse A, B ja C kuuluvad arvestid [Võrguteavik] = Electricity metering equipment (a.c.). Part 1, General requirements, tests and test conditions. Metering equipment (class indexes A, B and C)
2019 https://www.ester.ee/record=b5201316*est

Elektrimõõteseadmed vahelduvvoolule. Osa 2, Erinõuded. Elektromehaanilised aktiivenergia arvestid (klass A ja B) [Võrguteavik] = Electricity metering equipment (a.c.). Part 2, Particular requirements. Electromechanical meters for active energy (class indexes A and B)
2019 https://www.ester.ee/record=b5201740*est

Elektrimõõteseadmed vahelduvvoolule. Osa 2, Erinõuded. Elektromehaanilised aktiivenergia arvestid (klass A ja B) [Võrguteavik] = Electricity metering equipment (a.c.). Part 2, Particular requirements. Electromechanical meters for active energy (class indexes A and B
2019 https://www.ester.ee/record=b5201747*est

Elektrimõõteseadmed vahelduvvoolule. Osa 3, Erinõuded. Staatilised aktiivenergia arvestid (klass A, B ja C) [Võrguteavik] = Electricity metering equipment (a.c.). Part 3, Particular requirements. Static meters for active energy (class indexes A, B and C)
2019 https://www.ester.ee/record=b5201755*est

Elektrimõõteseadmed vahelduvvoolule. Osa 3, Erinõuded. Staatilised aktiivenergia arvestid (klass A, B ja C) [Võrguteavik] = Electricity metering equipment (a.c.). Part 3, Particular requirements. Static meters for active energy (class indexes A, B and C)
2019 https://www.ester.ee/record=b5202118*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 21, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,5, 1 ja 2) = Electricity metering equipment : particular requirements. Part 21, Static meters for AC active energy (classes 0,5, 1 and 2) (IEC 62053-21:2020)
2021 https://www.ester.ee/record=b5463945*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 21, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,5, 1 ja 2) = Electricity metering equipment : particular requirements. Part 21, Static meters for AC active energy (classes 0,5, 1

and 2)
2021 https://www.ester.ee/record=b5463969*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1 S, 0,2 S and 0,5 S) (IEC 62053-22:2020)
2021 https://www.ester.ee/record=b5463980*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1 S, 0,2 S and 0,5 S)
2021 https://www.ester.ee/record=b5463993*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1S, 0,2S and 0,5S) (IEC 62053-22:2020)
2021 https://www.ester.ee/record=b5435102*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1 S, 0,2 S and 0,5 S) (IEC 62053-22:2020)
2021 https://www.ester.ee/record=b5463980*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 23, Staatilised reaktiivenergia arvestid (klassid 2 ja 3) = Electricity metering equipment : particular requirements. Part 23, Static meters for reactive energy (classes 2 and 3) (IEC 62053-23:2020)
2021 https://www.ester.ee/record=b5435109*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 23, Staatilised reaktiivenergia arvestid (klassid 2 ja 3) = Electricity metering equipment : particular requirements. Part 23, Static meters for reactive energy (classes 2 and 3) (IEC 62053-23:2020)
2021 https://www.ester.ee/record=b5464102*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 23, Staatilised reaktiivenergia arvestid (klassid 2 ja 3) = Electricity metering equipment : particular requirements. Part 23, Static meters for reactive energy (classes 2 and 3)
2021 https://www.ester.ee/record=b5464111*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 24, Staatilised põhisagedus-reaktiivenergia arvestid (klassid 0,5 S, 1 S, 1, 2 ja 3) = Electricity metering equipment : particular requirements. Part 24, Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3) (IEC 62053-24:2020)
2021 https://www.ester.ee/record=b5435137*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 24, Staatilised põhisagedus-reaktiivenergia arvestid (klassid 0,5 S, 1 S, 1, 2 ja 3) = Electricity metering equipment : particular requirements. Part 24, Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3) (IEC 62053-24:2020)
2021 https://www.ester.ee/record=b5465245*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 24, Staatilised põhisagedus-reaktiivenergia arvestid (klassid 0,5 S, 1 S, 1, 2 ja 3) = Electricity metering equipment : particular requirements. Part 24, Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3) (IEC 62053-24:2020)
2021 https://www.ester.ee/record=b5465248*est

Elektrimõõtesedmed [Võrguteavik] : erinõuded. Osa 21: Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,5, 1 ja 2) = Electricity metering equipment. Particular requirements. Part 21: Static meters for AC active energy (classes 0,5, 1 and 2)(IEC 62053-21:2020)
2021 https://www.ester.ee/record=b5435094*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 3, Rikkesilmuse näivtakistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 3, Loop impedance (IEC 61557-3:2019)
2022 https://www.ester.ee/record=b5509793*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 7, Faasijärjestus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 7, Phase sequence

(IEC 61557-7:2019)
2022 https://www.ester.ee/record=b5509797*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 7, Faasijärjestus = Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC : equipment for testing, measuring or monitoring of protective measures. Part 7, Phase sequence (IEC 61557-7:2019/AMD1:2023)
2023 https://www.ester.ee/record=b5652663*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 7, Faasijärjestus = Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC : equipment for testing, measuring or monitoring of protective measures. Part 7, Phase sequence (IEC 61557-7:2019+IEC 61557-7:2019/AMD1:2023)
2023 https://www.ester.ee/record=b5651790*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 1, Üldnõuded = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 1, General requirements (IEC 61557-1:2019)
2021 https://www.ester.ee/record=b5479190*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 2, Isolatsioonitakistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 2, Insulation resistance (IEC 61557-2:2019)
2021 https://www.ester.ee/record=b5479192*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 4, Maandusjuhtide ja potentsiaaliühtlustusjuhtide takistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 4, Resistance of earth connection and equipotential bonding (IEC 61557-4:2019)
2021 https://www.ester.ee/record=b5479193*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 5, Maandustakistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 5, Resistance of earth (IEC 61557-5:2019)
2021 https://www.ester.ee/record=b5479568*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 6, Rikkevoolukaitseaparaatide tõhusus TT-, TN- ja IT-süsteemides = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 6, Effectiveness of residual current devices (RCD) in TT, TN and IT systems (IEC 61557-6:2019)
2021 https://www.ester.ee/record=b5479599*est

Elektriseadmed [Võrguteavik] : liigvoolukaitselülitid majapidamis- ja muudele taolistele paigaldistele. Osa 2, Vahelduv- ja alalisvoolul kasutatavad kaitselülitid = Electrical accessories : circuit-breakers for overcurrent protection for household and similar installations. Part 2, Circuit-breakers for a.c. and d.c. operation (IEC 60898-2:2016, modified)
2021 https://www.ester.ee/record=b5473393*est

Elektrisüsteemi arvutamise alused reaalajasimulatsioonide raamistikus : harjutused
Leinakse, Madis; **Andreesen, Guido**; **Campos, Nathalia de Morais Dias** 2022 https://haldus.taltech.ee/sites/default/files/2023-02/EE_ins_Elektris%C3%BCsteemi_arvutamise_alused_reaalajasimulatsioonide_raamistikus_Harjutused.pdf

Elektritarkvõrgud ja virtuaalsed elektrijaamad
Rosin, Argo; **Korõtko, Tarmo** TööstusEST 2018 / lk. 32-34 : ill http://www.ester.ee/record=b4481084*est
https://toostusest.ee/uudis/2018/09/04/virtuaalsed-elektrijaamad/ https://artiklid.elnet.ee/record=b2865323*est

Elektritootmine Eestis - kuhu edasi?
Palu, Ivo; **Tull, Marek** Elektriala 2023 / lk. 8-10 https://www.ester.ee/record=b1240496*est
https://dea.digar.ee/article/AKelektriala/2023/10/0/10.1

Elektritraktoriga otse merre? Miks ka mitte?
Tiidemann, Tiit Director. Inseneeria 2017 / lk. 108-111 : fot http://www.ester.ee/record=b1519314*est

https://artiklid.elnet.ee/record=b2824268*est

Elektrivõrkude arengust
Korõtko, Tarmo; **Pettai, Elmo** Elektriala 2018 / lk. 10-13 : ill http://www.ester.ee/record=b1240496*est
https://artiklid.elnet.ee/record=b2865343*est

Elektriõhuliinid vahelduvpingega üle 1 kV. Osa 2-20, Eesti riiklikud erinõuded (SEN) [Võrguteavik] = Overhead electrical lines exceeding AC 1 kV. Part 2-20, National Normative Aspects (NNA) for Estonia (based on EN 50341-1:2012)
2018 https://www.ester.ee/record=b5186383*est

Elektromagnetiline ühilduvus. Osa 6-1, Erialased põhistandardid. Häiringutaluvus olme-, kaubandus- ja väiketööstuskeskkondades [Võrguteavik] = Electromagnetic compatibility (EMC). Part 6-1, Generic standards. Immunity standard for residental, commercial and light-industrial environments (IEC 61000-6-1:2016)
2019 https://www.ester.ee/record=b5205425*est

Elektromagnetiline ühilduvus. Osa 6-2, Erialased põhistandardid. Häiringutaluvus tööstuskeskkondades [Võrguteavik] = Electromagnetic compatibility (EMC). Part 6-2, Generic standards. Immunity standard for industrial environments (IEC 61000-6-2:2016)
2019 https://www.ester.ee/record=b5205860*est

Elektromagnetmüra mõõtmisel tehakse palju vigu
Kütt, Lauri Elektriala 2024 / lk. 28-31 : fot., ill., portr https://www.ester.ee/record=b1240496*est

Elektromagnetmüra võib arvesti näidud sassi ajada ja teha muud kurja
Piir, Rait novaator.err.ee 2024 Elektromagnetmüra võib arvesti näidud sassi ajada ja teha muud kurja

Elektromagnetväljad: masinate mäss või terviseoht?
Kütt, Lauri EhitusEST 2023 / lk. 24-27 : fot https://www.ester.ee/record=b4442657*est

An embedded half-bridge Γ-Z-source inverter with reduced voltage stress on capacitors
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; Nozadian, Mohsen Hasan Babayi; Shokati Asl, Elias; Babaei, Ebrahim; **Chub, Andrii** Energies 2021 / art. 6433, 21 p. : ill https://doi.org/10.3390/en14196433 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Emerging converter topologies and control for grid connected photovoltaic systems
2021 https://doi.org/10.3390/books978-3-03943-910-2

Emeriitprofessor Jaan Järvik 85!
Elektriala 2024 / lk. 22 : portr https://www.ester.ee/record=b1240496*est

Emeriitprofessor kiidab Sõnajalgade tuulikuid : alguses olin mina ka skeptiline [Elektrooniline teavik]
Järvik, Jaan ärileht.ee 2019 / [3] l. : ill https://arileht.delfi.ee/news/uudised/emeriitprofessor-kiidab-sonajalgade-tuulikuid-alguses-olin-mina-ka-skeptiline?id=86180313

EMSA 2016 publications chairs preface
Manzin, Alessandra; Asenjo, Agustina; **Belahcen, Anouar**; Butta, Mattia IEEE transactions on magnetics 2017 / 0200603, p. 1-3 : fot https://doi.org/10.1109/TMAG.2017.2670446

Enam kui 30 aastat koostööd Kempteni Kõrgkooliga
Rosin, Argo Mente et Manu 2023 / lk. 44-45 : fot https://www.ester.ee/record=b1242496*est

Encoderless rotor position estimation of a switched reluctance drive operated under model predictive control
Anuchin, Alecksey; Shpak, Dmitry; **Demidova, Galina** 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 https://doi.org/10.1109/RTUCON51174.2020.9316621

End-user electricity consumption modelling for power quality analysis in residential building
Iqbal, Muhammad Naveed; **Kütt, Lauri** 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16-18 May, 2018 2018 / 6 p. : ill https://doi.org/10.1109/EPE.2018.8396030

End-user electricity consumption modelling for power quality analysis of residential buildings
Iqbal, Muhammad Naveed; **Kütt, Lauri** 17th International Symposium “Topical Problems in the Field of Electrical and Power Engineering”. Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 59-62 : ill http://ise.elnet.ee/record=b2950015~S2*est

Enefit Green: Baltic Sea ice ups cost of wind turbine construction

Klementi, Joakim news.err.ee 2023 Enefit Green: Baltic Sea ice ups cost of wind turbine construction

Enefit Green: jäine meri teeb tuulikute rajamise kallimaks
Klementi, Joakim err.ee 2023 Enefit Green: jäine meri teeb tuulikute rajamise kallimaks

Enefit Green: замерзшее море делает строительство ветряков дорож
Klementi, Joakim rus.err.ee 2023 Enefit Green: замерзшее море делает строительство ветряков дорож

Enefit oil factory (Enefit 280 and Enefit 280-2) plant controller algorithm
Sarnet, Tanel; **Kilter, Jako** 2022

Energeetikaeksperdid lasevad valitsusliidu energiaplaani sõelapõhjaks
Pott, Toomas err.ee 2025 Energeetikaeksperdid lasevad valitsusliidu energiaplaani sõelapõhjaks

Energeetikanõukogu
Hamburg, Arvi Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientarum Estonicae 2016 2017 / lk. 35-37 http://www.ester.ee/record=b1218094*est

Energeetikas osutub kõige kallimaks teistest sõltumine
Palu, Ivo TööstusEST 2025 / lk. 45 : portr https://www.ester.ee/record=b4481084*est

Energeetikateadlane Ivo Palu: jätkusuutlik oleks kombinatsioon – päike, tuul ning biomass ja põlevkivi
Alvela, Ain virumaateataja.postimees.ee 2023 Energeetikateadlane Ivo Palu: jätkusuutlik oleks kombinatsioon – päike, tuul ning biomass ja põlevkivi

Energeetiku rõõmuhetk : tahan siiralt toetada ja julgustada naisi nende enda teed järgima
Kudelina, Karolina postimees.ee 2024 Energeetiku rõõmuhetk: tahan siiralt toetada ja julgustada naisi nende enda teed järgima

Energia trilemma tulevikus
Tamm, Liivi TööstusEST 2023 / lk. 18-20 : fot https://www.ester.ee/record=b4481084*est

Energiasektori kese nihkub tulevikus lõpptarbija telefoni [Võrguväljaanne]
Mishra, Sambeet; **Crasta, Cletus J.** novaator.err.ee 2021 "Energiasektori kese nihkub tulevikus lõpptarbija telefoni "

Energiat tootev teekatend nüüd ka Eestis
Jalakas, Tanel; **Chub, Andrii**; **Vinnikov, Dmitri**; **Spalatu, Nicolae**; Gudkova, Viktoria; **Krunks, Malle**; **Mere, Arvo**; **Lahi, Allan**; Lindvest, Andre Elektriala 2023 / lk. 14-16 : portr., fot https://www.ester.ee/record=b1240496*est

Energy co-pricing in an integrated energy system for promoting electric energy substitution
Wang, Yizheng; Duan, Shuyin; **Wen, Fushuan**; **Palu, Ivo**; Xue, Yusheng 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 60-65 https://doi.org/10.1109/SGES51519.2020.00018

Energy council
Hamburg, Arvi Estonian Academy of Sciences year book 2016 2017 / p. 39-41

Energy management for an integrated energy system with data centers considering carbon trading
Wang, Yizheng; Li, Zhonghui; **Wen, Fushuan**; **Palu, Ivo**; Sun, Yikai; Zhang, Lijun; Gao, Meijin 2020 IEEE Power & Energy Society General Meeting (GM 2020) 2020 / 5 l https://doi.org/10.1109/PESGM41954.2020.9281980

Energy management in a centrifugal pumping plant
Vodovozov, Valery; **Raud, Zoja** 17th IEEE International Conference on Smart Technologies : IEEE EUROCON 2017 : 6-8 July 2017, Ohrid, Macedonia : conference proceedings 2017 / p. 347-352 : ill https://doi.org/10.1109/EUROCON.2017.8011133

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 router based energy management system for nearly zero energy buildings
Najafzadeh, Mahdiyyeh; **Roasto, Indrek**; **Jalakas, Tanel** 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/10.1109/RTUCON48111.2019.8982366

Energy saving in centrifugal pumps using mutual pressure and flowrate control
Serbin, Aleksandr; **Petlenkov, Eduard**; **Vodovozov, Valery** 2017 IEEE 58th International Scientific Conference on Power and

Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [5] p. : ill http://dx.doi.org/10.1109/RTUCON.2017.8124805

Energy scheduling and flexibility quantification in buildings
Ahmadiahangar, Roya; **Blinov, Andrei**; Peftitsis, Dimosthenis Distributed energy systems : design, modeling, and control 2023 / p. 249-259 : ill https://doi.org/10.1201/9781003229124-16

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 and forecasting error impact analysis in photovoltaic equipped residential nano-grids
Hokmabad, Hossein Nourollahi; **Husev, Oleksandr**; **Belikov, Juri**; **Vinnikov, Dmitri**; **Petlenkov, Eduard** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p. https://doi.org/10.1109/CPE-POWERENG58103.2023.10227406

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

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 supply and storage optimization for mixed-type buildings
Rikkas, Elina Rebecka; Lahdelma, Risto Energy 2021 / art. 120839 https://doi.org/10.1016/j.energy.2021.120839

Energy trading and management strategies in a regional integrated energy system with multiple energy carriers and renewable-energy generation
Wang, Yizheng; Jiang, Chenwei; **Wen, Fushuan**; Xue, Yusheng; Chen, Fei; Zhang, Lijun; Yuan, Xiang Journal of energy engineering 2021 / p. 04020076-1-04020076-12 : ill https://doi.org/10.1061/(ASCE)EY.1943-7897.0000726 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energy transition impact assessment methodology for fossil fuel based energy systems = Fossiilsetel kütustel põhinevate energiamajanduste ümberkorraldamise mõjude hindamise metoodika
Härm, Mihkel 2020 https://digikogu.taltech.ee/et/Item/3087bc85-dafc-4489-98bb-0ee9dbd26b27

Energy yield assessment methodology for photovoltaic microinverters
Chub, Andrii; **Kosenko, Roman**; **Korkh, Oleksandr**; **Vinnikov, Dmitri**; Kouro, Samir 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC 2019) Santos, Brazil, 1-4 December 2019 2019 / p. 1178-1183 : ill http://toc.proceedings.com/52923webtoc.pdf

Energy-efficient operation of linear Delta robots with an artificial intelligence model
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard**; **Semjonova, Natalia** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p https://doi.org/10.1109/BEC61458.2024.10737977 Conference proceedings at Scopus Article at Scopus Article at WOS

Engineering students mobility: intercultural barriers to achieving intercultural competences
Vodovozov, Valery; **Raud, Zoja** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 248-255 https://doi.org/10.1007/978-3-030-68201-9_78 Article collection metrics at Scopus Article at Scopus Article at WOS

Enhanced switched impedance inverter with tapped inductor
Nozadian, Mohsen Hasan Babayi; **Hassanpour, Naser**; **Khan, Salman** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604411

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

Enhancing PV hosting capacity and mitigating congestion in distribution networks with deep learning based PV forecasting and battery management
Shabbir, Noman; **Kütt, Lauri**; **Astapov, Victor**; **Daniel, Kamran**; Jawad, Muhammad; **Husev, Oleksandr**; **Rosin, Argo**; Martins, Joao Applied energy 2024 / art. 123770 https://doi.org/10.1016/j.apenergy.2024.123770

Enhancing transmission line reliability : an AI-driven approach to fault identification and classification
Shabbir, Noman; **Kamran, Daniel**; **Raja, Hadi Ashraf** Electronics 2024

ENTA president: napp järelkasv ohustab eestikeelse kõrghariduse tulevikku
Vaimann, Toomas; Oidermaa, Jaan-Juhan novaator.err.ee 2023 ENTA president: napp järelkasv ohustab eestikeelse kõrghariduse tulevikku

Envisioning the future renewable and resilient energy grids – a power grid revolution enabled by renewables, energy storage, and energy electronics
Peng, Fang Zheng; Liu, Chen-Ching; Li, Yuan; Jain, Akshay Kumar; **Vinnikov, Dmitri** IEEE journal of emerging and selected topics in industrial electronics 2024 / p. 8-26 https://doi.org/10.1109/JESTIE.2023.3343291

Equivalent strain and stress models for the effect of mechanical loading on the permeability of ferromagnetic materials
Rasilo, Paavo; Aydin, Ugur; Martin, Floran; **Belahcen, Anouar**; Kouhia, Reijo; Daniel, Laurent IEEE transactions on magnetics 2019 / art. 2002104, https://doi.org/10.1109/TMAG.2018.2890407

The Erasmus+ strategic partnership as a way to attract young people to engineering
Stepien, Mariusz; Berger, Kevin; **Rassõlkin, Anton**; **Vaimann, Toomas** Advances in Human Factors in Training, Education, and Learning Sciences : Proceedings of the AHFE 2019 International Conference on Human Factors in Training, Education, and Learning Sciences, July 24-28, 2019, Washington D.C., USA 2020 / p. 252-259 https://doi.org/10.1007/978-3-030-20135-7_25 Conference proceedings at Scopus Article at Scopus

Erko Lepa: inseneriharidus annab baasi ükskõik mis valdkonda liikumiseks
Lepa, Erko Elektriala 2020 / lk. 22-23 : fot http://www.ester.ee/record=b1240496*est https://new.abb.com/news/et/detail/63276/erko-lepa-inseneriharidus-annab-baasi-ukskoik-mis-valdkonda-liikumiseks

Establishing visualization-to-hardware communication through middleware for digital twin with ROS-compatible microcontrollers latency tests
Belolipetskaja, Diana; **Rassõlkin, Anton**; **Raja, Hadi Ashraf**; Stupans, Andrejs; Maksimkins, Pavels Proceeding of EAI International Conference of Robotic Sensor Networks (ROSENET) 2024 2025

Estimation and conversion of static load models of aggregated transmission system loads = Ülekandevõrgu sõlmekoormuste staatiliste koormusmudelite määramine ja teisendamine
Leinakse, Madis 2022 https://doi.org/10.23658/taltech.3/2022 https://digikogu.taltech.ee/et/Item/f179e30b-3265-4cc4-94d5-29750f3e9bfb https://www.ester.ee/record=b5491230*est

Estimation of exponential and ZIP load model of aggregated load with distributed generation
Leinakse, Madis; **Andreesen, Guido**; **Tani, Pärtel**; **Kilter, Jako** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1-6 https://doi.org/10.1109/RTUCON53541.2021.9711702

Estimation of harmonic emission of electric vehicles and their impact on low voltage residential network
Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Daniel, Kamran**; **Asad, Bilal**; **Ghahfarokhi, Payam Shams** Sustainability 2021 / art. 8551 https://doi.org/10.3390/su13158551 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Estimation of peak voltage value and its occurrence timing upon non-sinusoidal supply voltage
Daniel, Kamran; **Kütt, Lauri**; Iqbal, Muhammad Naveed; **Shabbir, Noman**; **Jarkovoi, Marek** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / p. 1-6 https://doi.org/10.1109/CPE-POWERENG60842.2024.10604412

Estimation of power system inertia from ambient wide area measurements
Tuttelberg, Kaur; **Kilter, Jako**; Wilson, Douglas; Uhlen, Kjetil 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 1 p https://doi.org/10.1109/PESGM40551.2019.8973822

Estimation of power system inertia from ambient wide area measurements
Tuttelberg, Kaur; **Kilter, Jako**; Wilson, Douglas; Uhlen, Kjetil IEEE transactions on power systems 2018 / p. 7249-7257

https://doi.org/10.1109/TPWRS.2018.2843381 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Estimation of transmission loss components from phasor measurements
Tuttelberg, Kaur; **Kilter, Jako** International journal of electrical power & energy systems 2018 / p. 62-71 : ill https://doi.org/10.1016/j.ijepes.2017.11.040 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ettevõtluse ja teaduse koostööst inseneri pilgu läbi
Rosin, Argo Äripäev 2019 / Tööstusuudised, lk. 16-17

EU electricity market design issues and solutions for increased RES penetration
Crasta, Cletus J.; **Agabus, Hannes**; **Palu, Ivo** 2020 17th International Conference on the European Energy Market (EEM 2020) 2020 https://doi.org/10.1109/EEM49802.2020.9221997

Euroopa perutav roheratsu
Rosin, Argo; **Drovtar, Imre** Postimees 2021 / Lk. 6−7

EuroTeQ as an alliance to promote European engineering education
Vodovozov, Valery; **Raud, Zoja**; **Lehtla, Madis** Proceedings of the 15th International Conference on Computer Supported Education (CSEDU 2023). Vol. 2 2023 / p. 601-607 https://doi.org/10.5220/0011824900003470

EuroTeQ Project : first impressions and estimates
Vodovozov, Valery; **Lehtla, Madis**; **Raud, Zoja** 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p https://doi.org/10.1109/RTUCON56726.2022.9978799

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 3D-printed magnetic materials for additively-manufactured electrical machines
Selema, Ahmed; Beretta, Margherita; Van Coppenolle, Matty; **Tiismus, Hans**; **Kallaste, Ants**; Ibrahim, Mohamed N.; Rombouts, Marleen; Vleugels, Jozef; Kestens, Leo A.I.; Sergeant, Peter Journal of magnetism and magnetic materials 2023 / art. 170426, 12 p. : ill https://doi.org/10.1016/j.jmmm.2023.170426 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Evaluation of dual-active bridge converter for DC energy buildings
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Sidorova, Aleksandra**; **Chub, Andrii**; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227460

Evaluation of losses in three-level neutral-point-clamped and T-type quasi-Z-source inverters with modified carrier based modulation method
Ruiz-Cortes, M.; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; Gonzalez-Romera, Eva; **Husev, Oleksandr** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 2017 / p. 638-643 : ill https://doi.org/10.1109/CPE.2017.7915247

Evaluation of low- and high-voltage GaN transistors in soft-switching DC-DC converter
Blinov, Andrei; **Kosenko, Roman**; **Chub, Andrii** 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 544-547 : ill https://doi.org/10.1109/UKRCON.2017.8100299

The evaluation of substations asset management methods cost-efficiency by using numerical simulations
Andreesen, Guido 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. 83-84 : ill https://www.ester.ee/record=b5504019*est

Event-triggered cooperative control of distributed generators in a distribution network subject to jamming attacks
Xu, Yan; **Wen, Fushuan**; **Palu, Ivo** 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 95-99 https://doi.org/10.1109/SGES51519.2020.00024

EV-Permanent magnet synchronous motor control strategy evaluation based on digital twin concept
Mohamed, Mahmoud Ibrahim Hassanin; **Rjabtšikov, Viktor** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227410

EV-powertrain test bench for digital twin development
Rjabtšikov, Viktor; **Mohamed, Mahmoud Ibrahim Hassanin**; **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. 559-563 : ill https://doi.org/10.1109/PEMC51159.2022.9962879

An EV-traction inverter data-driven modelling for digital twin development
Ibrahim, Akram Abdalla Mohammed; **Raja, Hadi Ashraf**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p. : ill https://doi.org/10.1109/EPE58302.2023.10149230

Example of automatic safety systems based on power line communication and Microsoft Azure
Daukaev, Kamil; **Rassõlkin, Anton**; **Belahcen, Anouar** 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. 95-96 : ill http://www.ester.ee/record=b4650094*est

Experimental analysis of cost optimization for electrical floor heating systems in volatile energy markets
Uuemaa, Madis; **Uleksin, Taaniel**; **Tammoja, Heiki** 2017 International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO), 20-22 May 2017 : proceedings 2017 / p. 177-181 http://doi.ieeecomputersociety.org/10.1109/ICCAIRO.2017.42

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 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 determination of equivalent circuit parameters for a synchronous generator
Naseer, Muhammad Usman; **Asad, Bilal**; **Ghahfarokhi, Payam Shams**; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2021 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream): proceedings of the conference, April 22, 2021, Vilnius, Lithuania 2021 / 7 p. : ill https://doi.org/10.1109/eStream53087.2021.9431442

Experimental efficiency and thermal parameters evaluation in Full-SiC Quasi-Z-Source inverter
Pimentel, Sergio Pires; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Pires Pimentel, Sergio**; Prystupa, Anatoliy 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/10.1109/RTUCON48111.2019.8982288

Experimental evaluation of a new carrier-based modulation method for a three-level T-type quasi-impedance-source inverter
Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; Barrero-Gonzalez, Fermin; **Husev, Oleksandr**; **Gonzalez-Romera, Eva**; **Milanes-Montero, Maria Isabel** IET power electronics 2022 / p. 337-348 https://doi.org/10.1049/pel2.12234 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Experimental investigation of high viscosity on oil spray cooling system with hairpin winding
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Vaimann, Toomas**; **Sarap, Martin**; **Rjabtšikov, Viktor** 2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2023 / p. 234-238 https://doi.org/10.1109/SDEMPED54949.2023.10271484

Experimental measurements and numerical modelling of additively manufactured Fe-Si cores
Stella, Marco; Faba, Antonio; Fulginei, F. Riganti; Quercio, Michele; Scorretti, Riccardo; Bertolini, Vittorio; Sabino, Luis Gustavo; **Tiismus, Hans**; **Kallaste, Ants**; Cardelli, Ermanno Journal of magnetism and magnetic materials 2024 / art. 171752 https://doi.org/10.1016/j.jmmm.2024.171752 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Experimental performance validation of Z-source DC circuit breaker for high impedance faults
Pogulaguntla, Aditya; Naik Banavath, Satish; **Chub, Andrii**; **Vinnikov, Dmitri**; Singh, Rajendra 2024 IEEE Sixth International Conference on DC Microgrids (ICDCM) 2024 / 5 p https://doi.org/10.1109/ICDCM60322.2024.10664702

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

Experimental verification of a two-stage bidirectional DC/DC converter with separated commutation and asymmetrical structure of current-source stage
Ivakhno, Volodymyr; Zamaruiev, Volodymyr; Styslo, Bogdan; **Blinov, Andrei** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 369-374 : ill https://doi.org/10.1109/UKRCON.2019.8879821

Experimental verification of two-stage power converter with current-fed soft-switching front-end for battery storage applications
Kosenko, Roman; **Blinov, Andrei**; **Korkh, Oleksandr** 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 1599-1608 : ill https://ieeexplore.ieee.org/document/8515580

Experimentally adjusted modelling and simulation technique for a catamaran autonomous surface vessel
Astrov, Igor; **Udal, Andres**; **Mõlder, Heigo**; **Jalakas, Tanel**; **Möller, Taavi** International Conference on Electrical, Computer, and Energy Technologies, ICECET 2022, Prague, Czech Republic, July 20-22, 2022 2022 / 7 p. : ill https://doi.org/10.1109/ICECET55527.2022.9873069

Expert: Selling solar electricity to grid will become costlier
Pott, Toomas news.err.ee 2023 Expert: Selling solar electricity to grid will become costlier

Experts: No need to worry about the impact of solar storms today
Piir, Rait news.err.ee 2024 Experts: No need to worry about the impact of solar storms today

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

Exploratory data analysis for demand-side flexibility quantification
Shahid, Arqum; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Maask, Vahur**; **Martins, João F.** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227408

Exploring the limits of early predictive maintenance in wind turbines applying an anomaly detection technique
Jankauskas, Mindaugas; Serackis, Artūras; Šapurov, Martynas; Pomarnacki, Raimondas; Baskys, Algirdas; Hyunh, Van Khang; **Vaimann, Toomas**; Zakis, Janis Sensors 2023 / art. 5695 https://doi.org/10.3390/s23125695 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Exponential to ZIP and ZIP to exponential load model conversion : methods and error
Leinakse, Madis; **Kilter, Jako** IET generation, transmission & distribution 2021 / p. 177-193 https://doi.org/10.1049/gtd2.12002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fabrication of polydimethylsiloxane stamps
Dhoska, Klodian; Sinani, Uljan; Komina, Bledar 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. 11-14 : ill http://www.ester.ee/record=b4650094*est

A family of bidirectional solid-state circuit breakers with increased safety in DC microgrids
Rahimpour, Saeed; **Husev, Oleksandr**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2023 / p. 10919-10929 https://doi.org/10.1109/TIE.2023.3337493

A fast current harmonic detection and mitigation strategy for shunt active filter
Firouzjah, Khalil Gorgani; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Häring, Tobias** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 5 p. : ill https://doi.org/10.1109/PQ.2019.8818253

Fast path-oriented strategy for power system restoration
Liang, Bomiao; Xu, Yan; **Wen, Fushuan**; **Palu, Ivo**; Liu, Weijia; Shan, Huiyu 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p https://doi.org/10.1109/PQ.2019.8818244

Fast precise eddy current measurement of metals
Märtens, Olev; **Land, Raul**; **Min, Mart**; **Rist, Marek**; **Annus, Paul**; **Pokatilov, Andrei** 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill https://doi.org/10.1109/I2MTC.2018.8409781

Fault analysis and field experiences of central inverter based 2 MW PV plant
Dumnic, Boris; **Liivik, Elizaveta**; Milicevic, Dragan 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2281-2290 : ill https://ieeexplore.ieee.org/document/8515423

Fault detecting accuracy of mechanical damages in rolling bearings
Kudelina, Karolina; **Baraškova, Tatjana**; **Shirokova, Veroonika**; **Vaimann, Toomas**; **Rassõlkin, Anton** Machines 2022 / art. 86 https://doi.org/10.3390/machines10020086 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fault detection and predictive maintenance of electrical machines : perspective chapter
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Asad, Bilal**; **Vaimann, Toomas** New Trends in Electric Machines - Technology and Applications 2022 https://doi.org/10.5772/intechopen.107167

Fault diagnosis and identification of malfunctioning protection devices in a power system via time series similarity matching
Xu, Bing; Wang, Chongyu; **Wen, Fushuan**; **Palu, Ivo**; Pang, Kaiyuan Energy Conversion and Economics 2020 / p. 81-92 https://doi.org/10.1049/enc2.12008

Fault diagnosis of additional vibration in Cartesian robot
Autsou, Siarhei 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. 21-22 : ill https://www.ester.ee/record=b5504019*est

Fault diagnosis of output-side diode-bridge in isolated DC-DC series resonant converter
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 https://doi.org/10.1109/ENERGYCON53164.2022.9830339

Fault diagnosis of the tooth belt transmission of Cartesian robot
Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Asad, Bilal**; **Kudelina, Karolina**; Huynh, Van Khang 2022 29th International Workshop on Electric Drives : Advances in Power Electronics for Electric Drives : IWED2022 : Moscow Power Engineering Institute, Moscow, Russia : 26th– 29th of January 2022 : Proceedings 2022 / 6 p https://doi.org/10.1109/IWED54598.2022.9722578

Fault diagnosis system of Cartesian robot for various belt tension
Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kudelina, Karolina** 2022 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2022 / 4 l https://doi.org/10.1109/Diagnostika55131.2022.9905111

Fault management techniques to enhance the reliability of power electronic converters : an overview
Rahimpour, Saeed; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Vosoughi Kurdkandi, Naser; Tarzamni, Hadi IEEE Access 2023 / p. 13432-13446 https://doi.org/10.1109/ACCESS.2023.3242918 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fault simulation and analysis of high-voltage circuit breaker's spring charging mechanism using a universal motor model
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Kilter, Jako**; **Sardar, Muhammad Usman** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p https://doi.org/10.1109/RTUCON62997.2024.10830846

Fault tolerant control and diagnosis strategies for cartesian industrial robot motion control planning system = Tõrketaluvusega juhtimis- ja diagnostikastrateegiad tööstusliku karteesianroboti liikumise planeerimise juhtimissüsteemi jaoks
Autsou, Siarhei 2025 https://www.ester.ee/record=b5734587*est https://digikogu.taltech.ee/et/Item/c9afdbf3-354b-41f5-a705-ede924a2af21 https://doi.org/10.23658/taltech.14/2025

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

Fault-tolerant approach for photovoltaic module-level power electronic applications
Vinnikov, Dmitri; **Chub, Andrii**; **Korkh, Oleksandr**; Malinowski, Mariusz 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 438-444 : ill https://doi.org/10.1109/CPE-POWERENG48600.2020.9161599

Fault-tolerant bidirectional series resonant DC-DC converter with minimum number of components
Vinnikov, Dmitri; **Chub, Andrii**; **Korkh, Oleksandr**; Malinowski, Mariusz 2019 IEEE Energy Conversion Congress and Exposition, ECCE, 2019-09-29 - 2019-10-03, Baltimore, MD, USA 2019 / p. 1359–1363 https://doi.org/10.1109/ECCE.2019.8912292

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

Fault-tolerant galvanically isolated DC‖DC converters with zero redundancy = Null-liiasusega veatolerantsed galvaanilise isolatsiooniga alalispingemuundurid

Bakeer, Abualkasim Ahmed Ali 2023 https://doi.org/10.23658/taltech.18/2023 https://digikogu.taltech.ee/et/Item/a9433801-e32e-4f98-af87-454e414646f4 https://www.ester.ee/record=b5558648*est

Fault-tolerant high step-up DC-DC converters
Chub, Andrii 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. 67-68 : ill https://www.ester.ee/record=b5291755*est

Fault-tolerant soft-switching current-fed DC-DC converter
Zinchenko, Denys; **Kosenko, Roman**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 437-440 : ill https://doi.org/10.1109/UKRCON.2019.8879973

FCS-model predictive control of a quadratic buck converter for more efficient data centers
Azadi, Shirin; Flores-Bahamonde, Freddy; Alireza Davari, S.; Torres-Pinzon, C. A.; **Chub, Andrii**; Rodriguez, Jose 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227387

Feasibility investigation for residential battery sizing considering EV charging demand
Shabbir, Noman; **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 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

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 of a DC house connected to a conventional AC distribution network
Hokmabad, Hossein Nourollahi; **Shabir, Noman**; **Astapov, Victor**; **Petlenkov, Eduard**; **Husev, Oleksandr**; **Belikov, Juri** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604419

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

Feasibility study of high-power density of modified isolated CLLC DC-DC interface with wide range of voltage/current regulation
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Mohseni, Parham**; **Canales, Francisco** PCIM Europe 2024 2024 / 10 p https://doi.org/10.30420/566262111

Feasibility study of interleaving approach for buck-boost inverter with unfolding circuit
Fesenko, Artem; **Matiushkin, Oleksandr**; **Husev, Oleksandr**; Khandakji, Kamal; Velihorskyi, Oleksandr 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 415−419 : ill https://doi.org/10.1109/UKRCON.2019.8879966

Feasibility study of interleaving approach for Quasi-Z-Source inverter
Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Fesenko, Artem; **Matiushkin, Oleksandr** Electronics 2020 / art. 277, 11 p. : ill https://doi.org/10.3390/electronics9020277 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Feasibility study of model predictive control for grid-connected twisted buck-boost inverter
Matiushkin, Oleksandr; **Husev, Oleksandr**; Rodriguez, Jose; Young, Hector; **Roasto, Indrek** IEEE transactions on industrial electronics 2022 / p. 2488-2499 https://doi.org/10.1109/TIE.2021.3068663 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Feasibility study of three-phase modular converter for dual-purpose application in DC and AC microgrids
Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; Gutierrez-Escalona, Javier; Barrero-Gonzalez, Fermin; **Vinnikov, Dmitri**; Strzelecki, Ryszard IEEE journal of emerging and selected topics in power electronics 2024 / p. 1348-1358 https://doi.org/10.1109/JESTPE.2023.3247960

Feasibility study of universal power electronics interface operation in 350 V and 700 V residential DC microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227441

Features extraction of wind ramp events from a virtual wind park
Mishra, Sambeet; **Ören, Esin**; Bordin, Chiara; **Wen, Fushuan**; **Palu, Ivo** Energy reports 2020 / p. 237−249
https://doi.org/10.1016/j.egyr.2020.08.047 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Festival täitis Karksi-Nuia meelõhnaga
Kilk, Aleksander Mesinik : mesindusajakiri 2023 / lk. 17-19 : fot https://www.ester.ee/record=b1072594*est

Finite element analysis based technique implementation for fault diagnostic of electrical machines
Akbar, Siddique 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. 103-104
https://www.ester.ee/record=b5570906*est

First results on load model estimation using digital fault recorder measurements
Leinakse, Madis; **Sarnet, Tanel**; **Kangro, Triin**; **Kilter, Jako** 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. 101-105 : ill http://www.ester.ee/record=b4650094*est

First year PhD studies : modifying price based set point calculation algorithms for use in off-grid mode
Häring, Tobias 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. 181-182 : ill
https://www.ester.ee/record=b5183874*est

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

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

Flexible identification procedure for thermodynamic constitutive models for magnetostrictive materials
Rasilo, Paavo; Singh, Deepak; Jeronen, Juha; Aydin, Ugur; Martin, Floran; **Belahcen, Anouar**; Daniel, Laurent; Kouhia, Reijo Proceedings of the Royal Society. A, Mathematical, physical & engineering sciences 2019 / 21 p https://doi.org/10.1098/rspa.2018.0280

Flood prevention through condition monitoring of pumping stations
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill
https://doi.org/10.1109/RTUCON48111.2019.8982305

Flux-weakening control for IPMSM employing model order reduction
Far, Mehrnaz Farzam; Mustafa, Bilal; Martin, Floran; Rasilo, Paavo; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 1510–1516 : ill
http://doi.org/10.1109/ICELMACH.2018.8506693

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

Force-based feedback for haptic device of mobile assembly robot
Lukin, Aleksandr; **Demidova, Galina**; **Rassõlkin, Anton**; **Vaimann, Toomas**; Roozbahani, Hamid 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 5 p. : ill https://doi.org/10.1109/IWED48848.2020.9069581

Forecasting available demand-side flexibility
Ahmadiahangar, Roya; **Rosin, Argo**; **Palu, Ivo**; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 39-49
https://doi.org/10.1007/978-981-15-4627-3_4 Journal metrics at Scopus Article at Scopus

Forecasting demand-side flexibility of a household with dynamic consumer behavior analysis
Shahid, Arqum; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Korõtko, Tarmo** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p https://doi.org/10.1109/ISGTEUROPE62998.2024.10863005

Forecasting of energy consumption and production using recurrent neural networks
Shabbir, Noman; **Kütt, Lauri**; Jawad, Muhammad; **Iqbal, Muhammad Naveed**; **Ghahfarokhi, Payam Shams** Advances in

electrical and electronic engineering 2020 / p. 190−197 https://doi.org/10.15598/aeee.v18i3.3597 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Forecasting of wind speed and power through FFNN and CFNN using HPSOBA and MHPSO-BAACs techniques
Ellahi, Manzoor; Usman, Muhammad Rehan; Arif, Waqas; Usman, Hafiz Fuad; Khan, Waheed A.; Satrya, Gandeva Bayu; **Daniel, Kamran**; **Shabbir, Noman** Electronics 2022 / art. 4193 https://doi.org/10.3390/electronics11244193 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Forecasting PV energy generation using transformer-based architectures: A comparative study of Lag-Llama, TFT, and DeepAR
Amjad, Furqan; **Korõtko, Tarmo**; **Rosin, Argo** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p https://doi.org/10.1109/RTUCON62997.2024.10830763

Forecasting short term wind energy generation using machine learning
Shabbir, Noman; **Ahmadiahangar, Roya**; **Kütt, Lauri**; **Iqbal, Muhammad Naveed**; **Rosin, Argo** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p https://doi.org/10.1109/RTUCON48111.2019.8982365

Forward-based DC-DC converter with eliminated leakage inductance problem
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Afshari, Hossein**; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos IEEE transactions on industrial electronics 2025 / p. 1638-1648 https://doi.org/10.1109/TIE.2024.3429626

Fotoelektrilised toitevõimsuse genereerimissüsteemid : toitemuundurseadmete elektromagnetilise ühilduvuse nõuded ja katsetusmeetodid = Photovoltaic power generating systems EMC requirements and test methods for power conversion equipment (IEC 62920:2017+IEC 62920:2017/A1:2021)
2023 https://www.ester.ee/record=b5561301*est

Fractional-order modeling and control of ionic polymer-metal composite actuator
Tepljakov, Aleksei; Vunder, Veiko; **Petlenkov, Eduard**; Nakshatharan, S Sunjai; Punning, Andres; **Kaparin, Vadim**; **Belikov, Juri**; Aabloo, Alvo Smart materials and structures 2019 / 12 p. : ill https://doi.org/10.1088/1361-665X/ab2c75 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

From misconceptions to energy saving concepts : case study in pumping engineering
Vodovozov, Valery 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. 44-50 : ill
http://www.ester.ee/record=b4650094*est

Fuel cell city buses : grey shadows of green energy
Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 l.
https://doi.org/10.1109/BEC56180.2022.9935604

Fuel economy regression analyses for hybrid electric vehicle
Vu, Trieu Minh; **Moezzi, Reza**; Owe, Israel European journal of electrical engineering 2018 / p. 363–377
https://doi.org/10.3166/ejee.20.363-377 Journal metrics at Scopus Article at scopus

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

Fully automated tuning of microwave coaxial cavity filters = Mikrolaine-koaksiaalfiltrite täisautomaatne häälestamine
Sekhri, Even 2024 https://www.ester.ee/record=b5685094*est https://digikogu.taltech.ee/et/Item/38784e65-568e-4dd9-aef9-bb5eec5a2a9c
https://doi.org/10.23658/taltech.20/2024

A fully decentralized distribution market mechanism using ADMM
Yang, Jiajia; Dong, ZhaoYang; **Wen, Fushuan** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill
https://doi.org/10.1109/PESGM40551.2019.8973905

Fundamentals of electrical machines
Kallaste, Ants; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Janson, Kuno** 2026 https://www.routledge.com/Fundamentals-of-Electrical-Machines/Kallaste-Vaimann-Rassolkin-Janson/p/book/9781032518206?srsltid=AfmBOoopOWsvE7PCg4afDRJAsSt-7MPjB1tipnsK8Yhta6i_tqjjPvPr

Fuzzy control of energy recovery in electric vehicles with hybrid energy storage
Vodovozov, Valery; **Aksjonov, Andrei**; Ricciardi, Vincenzo; **Raud, Zoja** 2019 International Conference on Clean Electrical Power (ICCEP) 2019 / p. 345-350 : ill https://doi.org/10.1109/ICCEP.2019.8890103

Fuzzy gradient control of electric vehicles at blended braking with volatile driving conditions
Vodovozov, Valery; **Petlenkov, Eduard**; Aksjonov, Andrei; **Raud, Zoja** ICINCO 2020 : 17th International Conference on Informatics in Control, Automation and Robotics, July 7-9, 2020 : online 2020 / p. 250−261 http://wikicfp.com/cfp/servlet/event.showcfp?eventid=97093&copyownerid=45217

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

Fuzzy logic control for a ball and beam system
Moezzi, Reza; **Vu, Trieu Minh**; **Tamre, Mart** International Journal of Innovative Technology and Interdisciplinary Sciences : IJITIS 2018 / p. 39-48 : ill https://doi.org/10.15157/IJITIS.2018.1.1.39-48

Fuzzy logic control of electric vehicles in changing braking conditions
Vodovozov, Valery; **Raud, Zoja**; **Aksjonov, Andrei**; **Petlenkov, Eduard** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / art. 20192756, p. 107-112 https://doi.org/10.1109/ICEPDS47235.2020.9249083

Future power system out-of-step protection concept utilizing synchronized phasor measurements = Tuleviku elektrisüsteemi faasimõõtmistel põhinev sünkronismikaotuskaitse kontseptsioon
Tealane, Marko 2023 https://doi.org/10.23658/taltech.9/2023 https://digikogu.taltech.ee/et/Item/159731eb-e93e-4892-875f-3806cd16e64c https://www.ester.ee/record=b5542953*est

Future trends in design of electrical machines
Kallaste, Ants 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. 51-52 https://www.ester.ee/record=b5291755*est

Gen Z oriented engineering education in the “Industry 4.0” age
Raud, Zoja; **Vodovozov, Valery**; **Petlenkov, Eduard** 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 / p. 1-4 https://doi.org/10.1109/RTUCON60080.2023.10413087

Generation of unmeasured loading levels data for condition monitoring of induction machine using machine learning
Billah, Md Masum; Saberi, Alireza Nemat; Hemeida, Ahmed; Martin, Floran; **Kudelina, Karolina**; **Asad, Bilal**; **Naseer, Muhammad Usman**; Mukherjee, Victor; Belahcen, Anouar IEEE transactions on magnetics 2024 / art. 8201104 https://doi.org/10.1109/TMAG.2023.3312267

Generative adversarial network and CNN-LSTM based short-term power load forecasting
Liu, Y.; Liang, Z.; Li, X.; **Bakeer, Abualkasim Ahmed Ali** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / p. 1-6 https://doi.org/10.1109/CPE-POWERENG58103.2023.10227473

Generative design in development of mechanical components for Magnus effect-based wind turbine
Lukin, Aleksandr; Perepelkina, Svetlana; Demidova, Galina; Lukichev, Dmitry; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 6-10 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249344

Generative design in weight optimization of reconfigurable continuous track robot
Valme, Daniil; **Kudelina, Karolina**; **Belolipetskaja, Diana**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 6 p https://doi.org/10.1109/IWED52055.2021.9376329

Global MPPT for interleaved buck-boost DC-DC converter
Matiushkin, Oleksandr; **Husev, Oleksandr**; Fesenko, Artem; **Vinnikov, Dmitri** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 7 p. : ill https://doi.org/10.1109/RTUCON51174.2020.9316589

A Gramian-based tool for modeling converter-dominated power systems
de Morais Dias Campos, Nathalia; **Sarnet, Tanel**; **Kilter, Jako** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p https://doi.org/10.1109/ISGTEUROPE62998.2024.10863396

Grid integration of DC buildings : standards, requirements and power converter topologies
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Emiliani, Pietro**; de Carne, Giovanni; **Vinnikov, Dmitri** IEEE

open journal of power electronics 2022 / p. 798-823 https://doi.org/10.1109/OJPEL.2022.3217741 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Grid-connected buck-boost inverter based on unfolding circuit
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Gordienko, Vyacheslav 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659824

Grid-connected single-phase 3L-T-type qZS inverter for renewable energy
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Ruiz-Cortes, Mercedes; Romero-Cadaval, Enrique; Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5003-5007 : ill https://doi.org/10.1109/IECON.2019.8926888 Conference proceedings at Scopus Article at Scopus Article at WOS

Grid-connected three-phase 3L-T-type qZS inverter for renewable energy
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva; Milanes-Montero, Maria Isabel; Romero-Cadaval, Enrique 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 114-119 https://doi.org/10.1109/CPE-POWERENG48600.2020.9161512

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

Grid-frequency Vienna rectifier and isolated current-source DC-DC converters for efficient off-board charging of electric vehicles
Rabkowski, Jacek; **Blinov, Andrei**; **Zinchenko, Denys**; Wrona, Grzegorz; Zdanowski, Mariusz 2020 22nd European Conference on Power Electronics and Applications (EPE'20 ECCE Europe), Lyon, France, 7-11 Sept. 2020 2020 / 10 p. : ill https://doi.org/10.23919/EPE20ECCEEurope43536.2020.9215772

Grounding and isolation requirements in DC microgrids: overview and critical analysis
Azizi, Mohammadreza; **Husev, Oleksandr**; Veligorskyi, Oleksandr; **Rahimpour, Saeed**; **Roncero-Clemente, Carlos** Energies 2023 / art. 7747, 23 p. : ill https://doi.org/10.3390/en16237747 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hairpin windings for electric vehicle motors : modeling and investigation of AC loss-mitigating approaches
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Kallaste, Ants**; Belahcen, Anouar; **Vaimann, Toomas** Machines 2022 / art. 1029 https://doi.org/10.3390/machines10111029 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hairpin windings manufacturing, design, and AC losses analysis approaches for electric vehicle motors
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** 2021 11th International Electric Drives Production Conference (EDPC) : 7-9 Dec. 2021 2021 / p. 1-7 https://doi.org/10.1109/EDPC53547.2021.9684208

Half-bridge trans-Z-source inverter with high boost factor
Mashinchi Maheri, Hamed; Shokati Asl, Elias; Babaei, Ebrahim; Sabahi, Mehran; Vinnikov, Dmitri IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / p. 1-6 : ill https://doi.org/10.1109/IECON48115.2021.9589525 Conference Proceedings at Scopus Article at Scopus Article at WOS

Hannes Agabus ja Hardi Koduvere: loomulikku rada kulgev Põxit [Võrguväljaanne}
Agabus, Hannes; **Koduvere, Hardi** postimees.ee 2019 / fot Hannes Agabus ja Hardi Koduvere: loomulikku rada kulgev Põxit

Haptic glove for augmented and virtual reality
Vu, Trieu Minh 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. 19-20 : ill https://www.ester.ee/record=b5183874*est

Haptic smart glove for augmented and virtual reality
Vu, Trieu Minh; **Moezzi, Reza**; **Katushin, Nikita** Sensor letters 2019 / p. 358-364 https://doi.org/10.1166/sl.2019.4070

Hardware-in-the-Loop test of an open loop fuzzy control method for decoupled electro-hydraulic antilock braking system
Aksjonov, Andrei; Ricciardi, Vincenzo; Augsburg, Klaus; **Vodovozov, Valery**; **Petlenkov, Eduard** IEEE transactions on fuzzy systems 2020 / p. 965-975: ill https://doi.org/10.1109/TFUZZ.2020.2965868 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Haridusasutused : haridusasutuste juhtimissüsteemid. Nõuded koos kasutusjuhistega = Educational organizations : management systems for educational organizations. Requirements with guidance for use (ISO 21001:2018, identical+ISO

21001:2018/Amd 1:2024, identical)
2024 https://www.ester.ee/record=b5709394*est

Harku Estlink 1 ja Kiisa AREJ-de koostöö uuring
Kilter, Jako; **Sarnet, Tanel** 2023

Harmonic current summation using probabilistic bivariate modelling = Vooluharmoonikute summeerimine rakendades kahe muutujaga tõenäosuslikku modelleerimist
Jarkovoi, Marek 2019 https://digikogu.taltech.ee/et/Item/35d500c0-f295-4dd5-b8a5-8feb6a184d32

Harmonic currents and voltages in industrial LV networks - case studies
Vinnal, Toomas; **Kütt, Lauri**; **Jarkovoi, Marek** 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2018) : Amalfi, Italy, 20-22 June 2018 2018 / p. 177-182 : ill https://doi.org/10.1109/SPEEDAM.2018.8445234

Harmonic currents and voltages in LV networks of Estonia : measurement results, case studies
Vinnal, Toomas; **Jarkovoi, Marek**; **Kütt, Lauri** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 7 p. : ill https://doi.org/10.1109/RTUCON.2018.8659875

Harmonic emissions of power electronic devices under different transmission network operating conditions
Božicek, Ambrož; **Kilter, Jako**; **Sarnet, Tanel**; Papic, Igor; Blažis, Boštjan IEEE transactions on industry applications 2018 / p. 5216-5226 : ill https://doi.org/10.1109/TIA.2018.2808478 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Harmonic spectrum analysis of induction motor with broken rotor bar fault
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 7 p. : ill https://doi.org/10.1109/RTUCON.2018.8659842

Harmonic/inter-harmonics detection using modified exact model order-based ESPRIT
Srivastava, Ankit Kumar; Tiwari, A.N; Singh, Sri Niwas; **Singh, Praveen Prakash** International Journal of Power Electronics 2023 / p. 218-233 https://doi.org/10.1504/IJPELEC.2023.10053284 Journal metrics at Scopus Article at Scopus

Harmonics distortion in inverter-fed motor-drive systems : case study
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818230

Harnessing appliance flexibility : a user-centric approach for energy management
Shahid, Arqum 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. 95-96 : ill https://www.ester.ee/record=b5570906*est

Health and charge indicators for battery energy storage systems in electric vehicles applications
Zequera, Rolando Antonio Gilbert; **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

Health index prediction of overhead transmission lines : a machine learning approach
Manninen, Henri; **Kilter, Jako**; **Landsberg, Mart** IEEE transactions on power delivery 2022 / p. 50-58 https://doi.org/10.1109/TPWRD.2021.3052721 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A health-energy nexus perspective for virtual power plants : power systems resiliency and pandemic uncertainty challenges
Mishra, Sambeet; Bordin, Chiara Smart and Sustainable Technology for Resilient Cities and Communities 2022 / p. 267–284 https://doi.org/10.1007/978-981-16-9101-0_19

Heat pump induction motor faults caused by soft starter topology — case study
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; Huynh, Van Khang 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 454-459 : ill https://doi.org/10.1109/PEMC48073.2021.9432506

Heigo Mäemuru - insener juba enne inseneriks õppimist
Mäemuru, Heigo Mente et Manu 2018 / lk. 10-15 : fot https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=6 http://www.ester.ee/record=b1242496*est http://dea.digar.ee/publication/AKmenteetmanu https://artiklid.elnet.ee/record=b2862652*est

Heiki Tammoja : 24.01.1947 - 13.10.2021 : in memoriam
Palu, Ivo Elektriala 2021 / lk. 30 : portr https://www.ester.ee/record=b1240496*est

Hemodialysis optical monitoring toward greener technology : a potential for water saving dialysis treatment
Leis, Liisi; **Adoberg, Annika**; **Paats, Joosep**; **Holmar, Jana**; **Arund, Jürgen**; **Karai, Deniss**; **Luman, Merike**; **Pilt, Kristjan**; **Taklaja, Paul**; **Tanner, Risto**; **Fridolin, Ivo** 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : Proceedings of NBC 2023, June 12–14, 2023, Liepaja, Latvia 2023 / p. 162 - 171 https://doi.org/10.1007/978-3-031-37132-5_21 Conference Proceedings at Scopus Article at Scopus

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

A high step-up non-isolated dc-dc converter with low voltage stress across transistor
Pourjafar, Saeed; Hemmati Shahsavar, Tala; Hashemzadeh, Seyed Majid; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / p. 15755-15767 https://doi.org/10.1109/TIE.2024.3383025

High voltage circuit breaker charging motor's condition monitoring - importance, possibilities, and challenges
Asad, Bilal; **Sardar, Muhammad Usman**; **Vaimann, Toomas**; **Kallaste, Ants**; **Asefi, Sajjad**; **Kilter, Jako** 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 7 p https://doi.org/10.1109/Diagnostika61830.2024.10693906

High voltage circuit breaker health index Evaluation considering measurement accuracy
Asefi, Sajjad; **Kilter, Jako**; Shayesteh, Ebrahim; Hilber, Patrik; Lindquist, Tommie IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p https://doi.org/10.1109/ISGTEUROPE62998.2024.10863019

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

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

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

High-efficiency single-stage onboard charger for electrical vehicles
Zinchenko, Denys; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri**; Verbytskyi, Ievgen; Bayhan, Sertac IEEE Transactions on Vehicular Technology 2021 / p. 12581-12592 : ill https://doi.org/10.1109/TVT.2021.3118392 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High-frequency split-bobbin transformer design with adjustable leakage inductance
Rahman, Showrov; **Sidorov, Vadim**; **Chub, Andrii**; **Vinnikov, Dmitri** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 15-17 Nov. 2021 : conference proceedings 2021 / p. 1-5 : ill https://doi.org/10.1109/RTUCON53541.2021.9711708

High-Frequency Step-Up DC-DC Converter with Integrated Ferrite-less Inductances
Matiushkin, Oleksandr; Husev, Oleksandr; Gutiérrez-Escalona, Javier; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique PCIM Europe 2025 2025 / 7 p

High-Gain Seven-Level Switched-Capacitor Two-Stage Multi-Level Inverter
Ahmed, Hassan Yousif; **Abdelrahim Abdelghafour, Omar Mohamed**; Ali, Ziad M. Frontiers in Energy Research 2022 / art. 869662 https://doi.org/10.3389/fenrg.2022.869662

High-performance buck-boost partial power quasi-Z-source series resonance converter
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Mashinchi Maheri, Hamed**; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE Access 2022 / p. 13017-130189 https://doi.org/10.1109/ACCESS.2022.3225751 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A High-performance open-source finite element analysis library for magnetics in MATLAB
Lehikoinen, Antti; Davidsson, T.; Arkkio, Antero; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 486–492 : ill http://doi.org/10.1109/ICELMACH.2018.8507235

High-performance quasi-Z-source series resonant DC-DC converter for photovoltaic module-level power electronics applications
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Elizaveta**; **Roasto, Indrek** IEEE transactions on power electronics 2017 / p. 3634-3650 : ill

https://doi.org/10.1109/TPEL.2016.2591726 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High‐voltage pulse transformer for IOT modulators
Jalakas, Tanel; **Janson, Kuno**; **Mõlder, Heigo**; **Roasto, Indrek** IET electric power applications 2020 / p. 2348-2354 https://doi.org/10.1049/iet-epa.2019.0877 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hilbert transform, an effective replacement of Park's vector modulus for the detection of rotor faults
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818227

Hispaania stsenaarium: miks elektrisüsteemid ootamatult kustuvad
Landsberg, Mart postimees.ee 2025 https://tehnika.postimees.ee/8239729/eksperdi-ulevaade-hispaania-stsenaarium-miks-elektrisusteemid-ootamatult-kustuvad

Hoia raha kokku : kuidas kodus säästlikult energiat tarbida
Kongas, Kerttu Postimehe lisa 2024 Hoia raha kokku: kuidas kodus säästlikult energiat tarbida

Hoidkem usku Eesti meesse
Kilk, Aleksander Mesinik : mesindusajakiri 2024 / lk. 4-5 : fot https://www.ester.ee/record=b1072594*est

A holistic D-PMU optimal placement framework considering pragmatic constraints in smart grids
Farhizadan, Mohammadreza; Karrari, Mehdi; Gharehpetian, Gevork B.; **Ahmadiahangar, Roya**; **Kilter, Jako**; **Rosin, Argo** IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 p. https://doi.org/10.1109/CPE-POWERENG54966.2022.9880881

A holistic risk-based maintenance methodology for transmission overhead lines using tower specific health indices and value of loss load
Manninen, Henri; **Kilter, Jako**; Landsberg, Mart International journal of electrical power and energy systems 2022 / art. 107767 ; 11 p. : ill https://doi.org/10.1016/j.ijepes.2021.107767 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Home energy management systems: A review of the concept, architecture, and scheduling strategies
Han, Binghui; **Zahraoui, Younes**; Mubin, Marizan; Mekhilef, Saad; Seyedmahmoudian, Mehdi; Stojcevski, Alex IEEE Access 2023 / p. 19999-20025 https://doi.org/10.1109/ACCESS.2023.3248502 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Homogenization of multiscale eddy current problem by localized orthogonal decomposition method
Ren, Xiaotao; Hannukainen, Antti; **Belahcen, Anouar** IEEE transactions on magnetics 2019 / art. 7500204, 4 p https://doi.org/10.1109/TMAG.2019.2917400

Hundipeal sõitis uus iselaev
Vitismann, Madli Meremees : Eesti merendusajakiri = Estonian maritime magazine 2023 / lk. 20 : fot https://issuu.com/ajakirimeremees/docs/meremees322 https://www.ester.ee/record=b4646644*est

Hybrid DC–DC converters with topology morphing control and post-fault operation capability
Vinnikov, Dmitri; **Chub, Andrii**; **Korkh, Oleksandr**; **Blinov, Andrei**; **Liivik, Elizaveta** Electrimacs 2019 : Selected Papers, Vol. 1 2020 / p. 433-445 https://doi.org/10.1007/978-3-030-37161-6_33 Conference proceeding at Scopus Article at Scopus

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

Hybrid FEA-Simulink modelling of permanent magnet assisted synchronous reluctance motor with unbalanced magnet flux
Pando-Acedo, Jaime; **Rassõlkin, Anton**; Lehikoinen, Antti; **Vaimann, Toomas**; **Kallaste, Ants**; Romero-Cadaval, Enrique; **Belahcen, Anouar** 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. : 174-180 : ill https://doi.org/10.1109/DEMPED.2019.8864925

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

A hybrid modulation approach for step-up/ down partial power converter with improved MPPT efficiency around zero partiality
Yadav, Neelesh; **Chub, Andrii**; **Hassanpour, Naser**; **Blinov, Andrei**; **Vinnikov, Dmitri**; Galkin, Ilya IEEE transactions on industry

applications 2025 https://doi.org/10.1109/TIA.2025.3525607

Hybrid PWM for step-up series resonant DC-DC converter integrated with bridgeless rectifier
Bakeer, Abualkasim Ahmed Ali 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 61-62 : ill https://www.ester.ee/record=b5457278*est

Hybrid residual current device and solid state circuit breaker for residential DC microgrids
Jalakas, Tanel; **Chub, Andrii**; **Roasto, Indrek**; **Vinnikov, Dmitri** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p https://doi.org/10.1109/BEC61458.2024.10737970 Article at Scopus Conference proceedings at Scopus Article at WOS

Hybrid thermal model of a synchronous reluctance machine
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton** Case studies in thermal engineering 2018 / p. 381-389 : ill https://doi.org/10.1016/j.csite.2018.05.007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hyperspectral image band selection using pooling
Liyanage, Dhanushka Chamara; **Hudjakov, Robert**; **Tamre, Mart** 15th International Conference Mechatronic Systems and Materials : MSM'2020 : The book of selected, peer reviwed papers presented at the 15th International Conference Mechatronic Systems and Materials MSM'2020, July 1-3, 2020, Bialystok, Poland 2020 https://doi.org/10.1109/MSM49833.2020.9201714

Hyperspectral imaging for vehicle traction effort prediction: ISEAUTO case study
Valme, Daniil; **Rassõlkin, Anton**; **Liyanage, Dhanushka Chamara** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227463

Hyperspectral imaging methods improve RGB image semantic segmentation of unstructured terrains
Liyanage, Dhanushka Chamara; **Hudjakov, Robert**; **Tamre, Mart** 15th International Conference Mechatronic Systems and Materials : MSM'2020 : The book of selected, peer reviwed papers presented at the 15th International Conference Mechatronic Systems and Materials MSM'2020, July 1-3, 2020, Bialystok, Poland 2020 / 5 p. ill https://doi.org/10.1109/MSM49833.2020.9201738

Hyperspectral/multispectral imaging methods for quality control
Liyanage, Dhanushka Chamara; **Tamre, Mart**; **Hudjakov, Robert** Handbook of research on new investigations in artificial life, AI, and machine learning 2022 / p. 438-461 https://doi.org/10.4018/978-1-7998-8686-0.ch017

Hysteresis loss evaluation of additively manufactured soft magnetic core
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Rassõlkin, Anton**; **Vaimann, Toomas** 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1657-1661 https://doi.org/10.1109/ICEM49940.2020.9270836

Hysteresis measurements and numerical losses segregation of additively manufactured silicon steel for 3D printing electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton**; Lukichev, Dmitry Applied sciences 2020 / art. 6515, 15 p https://doi.org/10.3390/app10186515 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Identification and characterization of modulation scheme in an EV-PMSM control strategy for digital twin modeling
Mohamed, Mahmoud Ibrahim Hassanin; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** Diagnostika 2024 - 2024 International Conference on Diagnostics in Electrical Engineering, Proceedings 2024 / 5 p https://doi.org/10.1109/Diagnostika61830.2024.10693927

Identification and location of PD defects in medium voltage underground power cables using high frequency current transformer
Shafiq, Muhammad; **Kiitam, Ivar**; **Taklaja, Paul**; **Kütt, Lauri**; Kauhaniemi, Kimmo; **Palu, Ivo** IEEE Access 2019 / art. 8771171, p. 103608 - 103618 : ill https://doi.org/10.1109/ACCESS.2019.2930704 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Identification of Estonian weak low voltage grid topologies [Electronic resource]
Vill, Kaija; **Rosin, Argo** 2017 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) : 6-9 June, 2017, Milan, Italy : conference proceedings 2017 / [5] p. : ill. [DVD] https://doi.org/10.1109/EEEIC.2017.7977757

Identification of intra-day variations of static load characteristics based on measurements in high-voltage transmission network
Leinakse, Madis; **Kiristaja, Hendrik**; **Kilter, Jako** 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p https://doi.org/10.1109/ISGTEurope.2018.8571712

Identification of mechanisms behind converter-related issues in power systems based on an overview of real-life events
De Rua, Philippe; Roose, Thomas; Sakinci, Özgür Can; **de Morais Dias Campos, Nathalia**; Beerten, Jef Renewable and sustainable energy reviews 2023 / art. 113431 https://doi.org/10.1016/j.rser.2023.113431 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

IEEE Industrial Electronics Society students and young professionals just after the pandemic time [students and young professionals news]
Jasinski, Marek; Turzynsk, Marek; **Vinnikov, Dmitri**; **Chub, Andrii** IEEE industrial electronics magazine 2022 / p. 89-100 https://doi.org/10.1109/MIE.2022.3212247

Iga mesilane loeb
Kilk, Aleksander Mesinik : mesindusajakiri 2024 / lk. 4-5 : ill https://www.ester.ee/record=b1072594*est

Impact of bearing faults on vibration level of BLDC motor
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill https://doi.org/10.1109/IECON48115.2021.9589268 Conference Proceedings at Scopus Article at Scopus Article at WOS

Impact of cable impedance on the harmonic emission of LED lamps
Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Asad, Bilal**; **Shabbir, Noman** 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 / 5 p https://doi.org/10.1109/EPE51172.2020.9269271

The impact of control environments on global parameters of electrical machines in case of broken rotor bars
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p. https://doi.org/10.1109/Diagnostika55131.2022.9905149

Impact of distributed generation on estimation of exponential load models
Leinakse, Madis; **Tani, Pärtel**; **Kilter, Jako** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill https://doi.org/10.1109/PESGM40551.2019.8974014

Impact of faults and different operating conditions on current parameters in case of broken rotor bars
Kudelina, Karolina 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. 41-42 : ill https://www.ester.ee/record=b5504019*est

Impact of LED thermal stability to household lighting harmonic load current modeling
Iqbal, Muhammad Naveed; **Jarkovoi, Marek**; **Kütt, Lauri**; **Shabbir, Noman** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p. : ill https://doi.org/10.1109/PQ.2019.8818226

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

The impact of load on global parameters of electrical machines in case of healthy and broken rotor bars
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Shabbir, Noman** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 l. https://doi.org/10.1109/BEC56180.2022.9935614

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

Impacts of grid-scale battery systems on power system operation, case of Baltic region
Ahmadiahangar, Roya; **Plaum, Freddy**; **Häring, Tobias**; **Drovtar, Imre**; **Korõtko, Tarmo**; **Rosin, Argo** IET Smart Grid 2024 / p. 101-119 https://doi.org/10.1049/stg2.12142

Impacts of offshore grid developments in the North Sea region on market values by 2050: How will offshore wind farms and transmission lines pay?
Koduvere, Hardi; Traber, Thure; Koivisto, Matti J. 2017 14th International Conference on the European Energy Market (EEM), 6-9 June, 2017 2017 / p. 1-6 : ill https://doi.org/10.1109/EEM.2017.7981945

Impacts of various maintenance tasks on life-cycle costs of a power grid project
Zhang, Shuyan; Duan, Shuyin; **Wen, Fushuan**; Shahnia, Farhad; Chen, Qingfang; **Palu, Ivo** 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 888-892 https://doi.org/10.1109/SGES51519.2020.00163

Impedance network impact on the controller design of the QZSI for PV applications
Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; **Liivik, Elizaveta**; Blaabjerg, Frede 2020 IEEE 21st Workshop on Control and Modeling for Power Electronics (COMPEL), Aalborg, Denmark, November 9-12, 2020 2020 / 6 p
https://doi.org/10.1109/COMPEL49091.2020.9265708

Impedance network-based diode-clamped multilevel inverter voltage balancing with cascaded voltage multiplier
Ebrahimi, Ali; Babaei, Ebrahim; Mousavi, S. M. J.; Mashinchi Maheri, 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

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

Impedance-source networks : features, benefits and challenges for industrial application : keynote address
Husev, Oleksandr 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1 https://doi.org/10.1109/IWED54598.2022.9722589

Implementation and analysis of rolling bearing faults caused by shaft currents
Kudelina, Karolina; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 https://doi.org/10.1109/IWED54598.2022.9722596

Implementation issues of droop controlled DC nanogrids: State of charge management of battery energy storage and impact of sensor gain tolerance
Hasan, Sayeed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p https://doi.org/10.1109/RTUCON62997.2024.10830832

Implementation of a web-based remote control system for qZS DAB application using low-cost ARM platform
Korzeniewski, Marek; Kulikowski, Krzysztof; **Zakis, Janis**; Jasiński, Marek Tomasz; Malinowski, Aleksander Bulletin of the Polish Academy of Sciences: Technical Sciences 2016 / p. 887-896 https://doi.org/10.1515/bpasts-2016-0097 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Implementation of Digital Twins for electrical energy conversion systems in selected case studies
Rassõlkin, Anton; Orosz, Tamas; **Demidova, Galina**; **Kuts, Vladimir**; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants** Proceedings of the Estonian Academy of Sciences 2021 / p. 19-39 : ill https://doi.org/10.3176/proc.2021.1.03 https://doi.org/wp-content/plugins/kirj/pub/proc-1-2021-19-39_20210201183802.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Implementation of global maximum power point tracking in photovoltaic microconverters: A survey of challenges and opportunities
Vinnikov, Dmitri; **Chub, Andrii**; Kosenko, Roman; **Sidorov, Vadim**; Lindvest, Andre IEEE journal of emerging and selected topics in power electronics 2023 / p. 2259-2280: ill https://doi.org/10.1109/JESTPE.2021.3137521 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Implementation of integrated wireless network and MATLAB system to control autonomous mobile robot
Tamre, Mart; **Hudjakov, Robert**; **Shvarts, Dmitry**; **Põlder, Ahti**; **Hiiemaa, Maido**; **Juurma, Märt** International Journal of Innovative Technology and Interdisciplinary Sciences : IJITIS 2018 / p. 18-25 : ill https://doi.org/10.15157/IJITIS.2018.1.1.18-25

Implementation of MPPT hill climbing technique for forward based DC-DC converter
Matiushkin, Oleksandr; **Husev, Oleksandr**; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604422

Implementation of novel vector control with low torque ripples for synchronous relutance motor
Heidari, Hamidreza 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. 33-34 https://www.ester.ee/record=b5457278*est

Implementation of protection features for a modular bidirectional solid-state battery disconnector
Dsa, Daniel; Chinnusamy, Abhinav; Banavath, Satish Naik; **Carvalho da Silva, Edivan Laercio** IEEE journal of emerging and selected topics in power electronics 2024 https://doi.org/10.1109/JESTPE.2024.3502157

Implementation of X-Parameters principle for non-linear vibroacoustic membrane using Two-Port measurement
Moezzi, Reza; Hlava, Jaroslav; **Vu, Trieu Minh** Traitement du signal 2019 / p. 297-301 https://doi.org/10.18280/ts.360401 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Implementing chatbot to assist costumer service of consumer protection and technical regulatory authority
Kütt, Lauri AI IN BUSINESS : proceedings of the scientific workshop on business implications of artificial intelligence, June 7, 2022 2022 / p. 65-66 : ill https://www.ester.ee/record=b5506022*est https://digikogu.taltech.ee/et/Item/2096bada-661d-4928-99a7-bfbce51825d8

Implications of the possible exit from oil shale for Estonian electricity sector
Härm, Mihkel; **Hamburg, Arvi** Oil shale 2020 / p. 177-187 : ill https://doi.org/10.3176/oil.2020.3.01 https://kirj.ee/wp-content/plugins/kirj/pub/OS-3-2020-177-187_uus_20200827110456.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improved cost function definition for fixed switching frequency FCS-MPC with SVPWM
Bakeer, Abualkasim Ahmed Ali; Alhasheem, Mohammed; **Chub, Andrii** 2021 22nd International Middle East Power Systems Conference (MEPCON) 2021 / p. 360-365 https://doi.org/10.1109/MEPCON50283.2021.9686235

Improved DC-Link voltage transient response and stability issues in energy router with fuzzy logic control method
Najafzadeh, Mahdiyyeh; **Husev, Oleksandr**; **Roasto, Indrek**; **Jalakas, Tanel** 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/RTUCON51174.2020.9316477

Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM
Khan, Muhammad Amir; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants** Electronics (Switzerland) 2024 / art. 1292 https://doi.org/10.3390/electronics13071292 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improved fault classification and localization in power transmission networks using vae-generated synthetic data and machine learning algorithms
Khan, Muhammad Amir; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang Machines 2023 / art. 963 https://doi.org/10.3390/machines11100963 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improved half-bridge Z-source inverter based gamma structure with continuous input current
Bahador, Asghar; **Babaei, Ebrahim**; **Chauhan, Sachin** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p https://doi.org/10.1109/RTUCON62997.2024.10830839

Improved maximum power point tracking algorithm for step-up/down partial power converters operating around zero partiality
Yadav, Neelesh; **Hassanpour, Naser**; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE journal of emerging and selected topics in power electronics 2024 / p. 1984-1994 https://doi.org/10.1109/JESTPE.2024.3354843

Improved modulation method for full-bridge AC-DC HF-link converter
Blinov, Andrei; **Korkh, Oleksandr**; **Chub, Andrii**; **Vinnikov, Dmitri** 2020 IEEE International Conferenceon Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 1173−1177 : ill https://doi.org/10.1109/ICIT45562.2020.9067128 Conference proceedings at Scopus Article at Scopus Article at WOS

An improved nine-level switched capacitor-based inverter with voltage boosting capability and limitation of capacitor current spikes for PV applications
Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Naderi, Yahya; **Husev, Oleksandr**; Hosseini, Seyed Hossein; Siwakoti, Yam P.; Mehrizi-Sani, Ali IET renewable power generation 2023 / p. 725-749 https://doi.org/10.1049/rpg2.12630 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improved quantification of partial discharges for reliable diagnostics of multipath connections in MV substations
Shafiq, Muhammad; **Kiitam, Ivar**; Isa, Muzamir; **Taklaja, Paul**; **Palu, Ivo**; **Kütt, Lauri** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / 6 p https://doi.org/10.1109/RTUCON53541.2021.9711585

Improved sampling algorithm for stochastic modelling of random-wound electrical machines
Lehikoinen, Antti; Chiodetto, Nicola; Arkkio, Antero; **Belahcen, Anouar** The journal of engineering 2019 / p. 3976–3980 https://doi.org/10.1049/joe.2018.8093

An improved ZVS high step-up converter based on coupled inductor and built-in transformer
Nouri, Tohid; **Vosoughi Kurdkandi, Naser**; **Husev, Oleksandr** IEEE transactions on power electronics 2021 / p. 13802-13816 : ill https://doi.org/10.1109/TPEL.2021.3088092 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improvements on the carrier-based control method for a three-level T-type, quasi-impedance-source inverter
Barrero-Gonzalez, Fermin; Roncero-Clemente, Carlos; Milanes-Montero, Maria Isabel; **Husev, Oleksandr** Electronics 2019 / art. 677, 12 p. : ill https://doi.org/10.3390/electronics8060677 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improving dynamic stability of deregulated power system
Rouhani, Seyed Hossein; **Ahmadiahangar, Roya**; **Häring, Tobias**; **Rosin, Argo** 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 https://doi.org/10.1109/RTUCON51174.2020.9316618

Improving legibility of motor current spectrum for broken rotor bars fault diagnostics
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar**; **Iqbal, Muhammad Naveed** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 1–8 : ill https://doi.org/10.2478/ecce-2019-0001

Improving Residential Load Forecasting : A Probabilistic Tree-based Approach for Multi-Step Ahead Prediction
Shabbir, Noman; **Daniel, Kamran**; Jawad, M.; **Rosin, Argo**; **Martins, J.** International Scientific Conference on Information, Communication and Energy Systems and Technologies (ICEST) 2025

In memoriam Peeter Raesaar (01.06.1940-24.12.2023)
Elektriala 2024 / lk. 36 https://www.ester.ee/record=b1240496*est

Inaccuracies and uncertainties for harmonic estimation in distribution networks
Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Daniel, Kamran**; **Shabbir, Noman**; Amjad, Anas; Awan, Abdul Waheed; Ali, Majid Sustainability 2024 / art. 6523 https://doi.org/10.3390/su16156523

Incorporating service type in aging failure model of high voltage circuit breaker
Asefi, Sajjad; **Kilter, Jako**; Landsberg, Mart 2023 27th International Conference Electronics : proceedings 2023 / 5 p https://doi.org/10.1109/IEEECONF58372.2023.10177602

Increasing PV hosting capacity in LV distribution networks using congestion control techniques
Shabbir, Noman 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. 87-88 https://www.ester.ee/record=b5504019*est

Indicators for assessing the quality of an energy policy = Energiapoliitika kvaliteedi hindamise indikaatorid
Kisel, Einari 2017 https://digi.lib.ttu.ee/i/?7181 https://www.ester.ee/record=b4649798*est

Indirect model predictive control for inverter connected to distorted grid with significant computation delay
Husev, Oleksandr; Pimentel, Sergio Pires; **Vinnikov, Dmitri**; **Kütt, Lauri**; Rodriguez, Jose IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 6483-6488 : ill https://doi.org/10.1109/IECON.2019.8927279

An indirect model predictive current control (CCS-MPC) for grid-connected single-phase three-level NPC quasi-z-source PV inverter
Pires Pimentel, Sergio; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Stepenko, Serhii** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659840

Induction generator with direct control and a limited number of measurements on the side of the converter connected to the power grid
Kasprowicz, Andrzej Bogdan; **Husev, Oleksandr**; Strzelecki, Ryszard Energies 2023 / art. 63, 23 p. : ill https://doi.org/10.3390/en16010063 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Induction machine fault detection using smartphone recorded audible noise
Vaimann, Toomas; Sobra, Jan; **Belahcen, Anouar**; **Rassõlkin, Anton**; Rolak, Michal; **Kallaste, Ants** IET science, measurement and technology 2018 / p. 554-560 : ill https://doi.org/10.1049/iet-smt.2017.0104 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Induction motor bearing currents - causes and damages
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Asad, Bilal**; **Demidova, Galina** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p https://doi.org/10.1109/IWED52055.2021.9376354

Inductive bifilar coil based wireless charging system for autonomous electric boat
Pakhaliuk, Bohdan; **Husev, Oleksandr**; **Shevchenko, Viktor**; Kroics, Kaspars; Stepins, Deniss; Strzelecki, Ryszard IEEE 31st International Symposium on Industrial Electronics (ISIE) 2022 / p. 758-761 https://doi.org/10.1109/ISIE51582.2022.9831731

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

Industrial and technological applications of power electronics systems
2021 https://doi.org/10.3390/books978-3-0365-0823-8

Influence of different tooth belt transmission faults on the work of a cartesian robot
Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kudelina, Karolina**; **Asad, Bilal** Proceedings of the 2022 20th International Conference on Mechatronics - Mechatronika, (ME), Pilsen, Czech Republic, December 7–9, 2022 2022 / 5 p. : ill https://doi.org/10.1109/ME54704.2022.9982815

Influence of illumination sources on hyperspectral imaging
Zahavi, Ali; **Palshin, Andrei**; **Liyanage, Dhanushka Chamara**; **Tamre, Mart** Proceedings of the 2019 20th International Conference on Research and Education in Mechatronics (REM) : Wels, Austria, 23-24 May 2019 2019 / 5 p. : ill https://doi.org/10.1109/REM.2019.8744086

Influence of magnet material selection on the design of slow-speed permanent magnet synchronous generators for wind applications
Kallaste, Ants; **Vaimann, Toomas**; **Belahcen, Anouar** Elektronika ir elektrotechnika = Electronics and electrical engineering 2017 / p. 31-38 : ill https://doi.org/10.5755/j01.eie.23.1.17581 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of magnetic forces and magnetostriction on the vibration behavior of an induction motor
Sathyan, Sabin; Aydin, Ugur; Lehikoinen, Antti; **Belahcen, Anouar**; **Vaimann, Toomas**; Kataja, Juhani International journal of applied electromagnetics and mechanics 2019 / p. 825-834 https://doi.org/10.3233/JAE-171045 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of permanent magnet characteristic variability on the wind generator operation
Kudrjavtsev, Oleg; **Kallaste, Ants**; **Kilk, Aleksander**; **Vaimann, Toomas**; **Orlova, Svetlana** Latvian journal of physics and technical sciences 2017 / p. 3-11 : ill https://doi.org/10.1515/lpts-2017-0001 Journal metrics at Scopus Article at Scopus

The influence of solar energy on the development of the mining industry in the republic of Cuba
Shklyarskiy, Yaroslav E.; Guerra, Dias Daniel; Iakovleva, Emiliia V.; **Rassõlkin, Anton** Journal of Mining Institute 2021 / p. 427 - 440 https://doi.org/10.31897/PMI.2021.3.12 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of solar power plants on 0.4 kV consumers
Rubanenko, Olena; Hunko, Iryna; Rubanenko, Oleksandr; **Rassõlkin, Anton** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982257

Influence of weather parameters on the corona losses of 330kV Estonia overhead transmission line
Gupta, Pradeep Kumar 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. 93-94 : ill https://www.ester.ee/record=b5504019*est

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

Inimesele toimivate elektri-, magnet- ja elektromagnetväljade (0 HZ kuni 300 GHz) mõõtmis- ja arvutusviiside põhistandard [Võrguteavik] = Basic standard on measurment and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)
2019 https://www.ester.ee/record=b5294775*est

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine : seadmeklemmide, juhtide otste ja juhtide tuvastamine = Basic and safety principles for man-machine interface, marking and identification : identification of equipment terminals, conductor terminations and conductors (IEC 60445:2021)
2021 https://www.ester.ee/record=b5480843*est

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine [Võrguteavik] : seadmeklemmide, juhtide otsastuste ja juhtide tuvastamine = Basic and safety principles for man-machine interface, marking and identification : identification of equipment terminals, conductor terminations and conductors (IEC 60445:2010)
2017 http://www.ester.ee/record=b4759241*est

Initial design estimation of synchronous machines

Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 https://doi.org/10.1109/IWED54598.2022.9722585

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

Input voltage range extension methods in the series-resonant DC-DC converters
Chub, Andrii; **Vinnikov, Dmitri**; Lai, Jih-Sheng 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC 2019) Santos, Brazil, 1-4 December 2019 2019 / p. 1493−1499
http://toc.proceedings.com/52923webtoc.pdf

Inrush current measurement and modeling practical cases and primary methods
Tinno, Jan Markus; **Kütt, Lauri**; **Parker, Martin**; **Kulikov, Jan**; **Jaanus, Martin** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p
https://doi.org/10.1109/RTUCON62997.2024.10830806

Insener kui loovisik
Kübarsepp, Jakob; **Hamburg, Arvi**; Peipman, Tõnu Sirp 2017 / lk. 17-19 http://www.sirp.ee/s1-artiklid/c21-teadus/insener-kui-loovisik/

Insenerid panid EIL-i üldkogul paika 2017. aasta eesmärgid : [ka Arvi Hamburgi kommentaarid]
Kamps, Mari Inseneeria 2017 / lk. 66-68 : fot http://www.ester.ee/record=b2336521*est https://artiklid.elnet.ee/record=b2818087*est

Inseneritudeng Brenda Pent: mingil määral tuleb naisena inseneerias alati võidelda
Pent, Brenda delfi.ee 2024 Inseneritudeng Brenda Pent: mingil määral tuleb naisena inseneerias alati võidelda

Inseneriõpe TalTechis sai täiendust ABB kingitud seadmetega
toostusest.ee 2025 Inseneriõpe TalTechis sai täiendust ABB kingitud seadmetega

Insulation aging and framework for the development of aging model based on partial discharge analysis
Choudhary, Maninder 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. 79-80 : ill https://www.ester.ee/record=b5504019*est

Insulation durability and measurement of partial discharge = Isolatsiooni vastupidavus ja osalahenduste mõõtmine
Kiitam, Ivar 2021 https://www.ester.ee/record=b5473274*est https://digikogu.taltech.ee/et/Item/401e6d0b-f51d-488f-b0d6-2e2bdb8f9496
https://doi.org/10.23658/taltech.62/2021

Insulation fault diagnosis for MV cables under smart grid operation
Shafiq, Muhammad 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. 13-14 : ill
https://www.ester.ee/record=b5457278*est

Integrated labs for electrical engineering courses in competence based learning environment - practical experience
Jaanus, Martin; **Umbleja, Kadri**; **Udal, Andres**; **Pärnamets, Kaiser** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818266

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

Integration of autonomous vehicles and Industry 4.0
Sell, Raivo; **Rassõlkin, Anton**; **Wang, Ruxin**; **Otto, Tauno** Proceedings of the Estonian Academy of Sciences 2019 / p. 389–394 : ill https://doi.org/10.3176/proc.2019.4.07 http://www.kirj.ee/32705/?tpl=1061&c_tpl=1064 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Integration of PV system with SMES based on model predictive control for utility grid reliability improvement
Bakeer, Abualkasim Ahmed Ali; Salama, Hossam S.; Vokony, Istvan Protection and Control of Modern Power Systems 2021 / art. 14 https://doi.org/10.1186/s41601-021-00191-1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Intelligent condition monitoring methods for electrical machines and drive systems
Kudelina, Karolina 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. 35-36 : ill https://www.ester.ee/record=b5457278*est

Intelligent contingencgy overload-avoiding control of BESS for renewable-rich local area
Gonzalez-Longatt, Francisco; Abdellah, Kouzou; **Astapov, Victor**; Olivo, Franklin; Rueda, Jose Luis; Palensky, Peter; Chamorro, Harold R. 19th International Multi-Conference on Systems, Signals & Devices (SSD) 2022 / p. 1638-1643
https://doi.org/10.1109/SSD54932.2022.9955825

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

Intelligent functions development on autonomous electric vehicle platform
Wang, Ruxin; **Sell, Raivo**; **Rassõlkin, Anton**; **Otto, Tauno**; Malayjerdi, Ehsan Journal of machine engineering 2020 / p. 114-125
https://doi.org/10.36897/jme/117787 Journal metrics at Scopus Article at Scopus

Intelligent traction control for electric vechicles using hyperspectral imaging
Valme, Daniil 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. 15-16 : ill https://www.ester.ee/record=b5570906*est

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

Interface development for digital twin of an electric motor based on empirical performance model
Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Kuts, Vladimir**; **Vaimann, Toomas**; **Kallaste, Ants**; **Asad, Bilal**; **Partyshev, Andriy** IEEE Access 2022 / p. 15635-15643 https://doi.org/10.1109/ACCESS.2022.3148708 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Interleaved quasi-Z-source inverter with activ power decoupling for kW-scale PV applications
Stepenko, Serhii 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. 71-72 : ill
https://www.ester.ee/record=b5183874*est

Interleaved single-phase quasi-Z-source inverter with special modulation technique
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Stepenko, Serhii; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 593-598 : ill https://doi.org/10.1109/UKRCON.2017.8100310

International journal of innovative technology and interdisciplinary sciences : IJITIS [Online resource]
2018 https://www.ester.ee/record=b5175856*est https://journals.indexcopernicus.com/search/details?id=50673

Intervjuu : Madis Uuemaa
Uuemaa, Madis Teadus kolme minutiga : 2017-2019 2019 / lk. 148-151 : fot https://www.ester.ee/record=b5245642*est

Introduction to minimize sunk costs in electricity network tariff = Sissejuhatus uppunud kulude minimeerimiseks elektrivõrgu tariifis
Mere, Tarmo 2019 https://digikogu.taltech.ee/et/Item/49d2b3b6-b570-4958-abda-7e898286eea0

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

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

Investigating different sources of flexibility in power system
Ahmadiahangar, Roya; **Rosin, Argo**; **Palu, Ivo**; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 27-37
https://doi.org/10.1007/978-981-15-4627-3_3 Journal metrics at Scopus Article at Scopus

Investigating the progression of insulation degradation in power cable based on partial discharge measurements
Hassan, Waqar; **Shafiq, Muhammad**; Hussain, Ghulam Amjad; **Choudhary, Maninder**; **Palu, Ivo** Electric power systems research 2023 / art. 109452 https://doi.org/10.1016/j.epsr.2023.109452 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Investigation and field measurements for demand side management control technique of smart air conditioners located at residential, commercial, and industrial sites

Masood, Bilal; Guobing, Song; Nebhen, Jamel; Rehman, Ateeq Ur; **Iqbal, Muhammad Naveed**; Rasheed, Iftikhar; Bajaj, Mohit; Shafiq, Muhammad; Hamam, Habib Energies 2022 / art. 2482, 23 p. : ill https://doi.org/10.3390/en15072482 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Investigation of FEM software for Magnus Effect Simulation
Lukin, Aleksandr; Demidova, Galina; Lukichev, Dmitry; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p https://doi.org/10.1109/IWED52055.2021.9376396

Investigation of partial discharge characteristics in XLPE cable insulation under increasing electrical stress
Choudhary, Maninder; Shafiq, Muhammad; **Kiitam, Ivar**; **Palu, Ivo**; Hassan, Waqar; **Singh, Praveen Prakash** Engineering failure analysis 2024 / art. 108006 https://doi.org/10.1016/j.engfailanal.2024.108006

Investigation of the causes behind the vibrations of a high-speed solid-rotor induction motor
Sathyan, Sabin; **Belahcen, Anouar**; Lehikoinen, Antti; Aydin, Ugur; Boxberg, Fredrik Journal of sound and vibration 2019 / art. 114976, 14 p https://doi.org/10.1016/j.jsv.2019.114976 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Investigation of the forces acting on the coils of a Modular Slotless Permanent Magnet Generator
Kallaste, Ants; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 707-708 : ill http://www.compumag.org/CMAG2017/[PD-M3-9]_727.pdf

Investigation of tribological characteristics of polymers used in medicine
Andriushchenko, Ekaterina; Semenova, Vlada; Yuan, Pan New Materials and Technologies in Mechanical Engineering : International Scientific Conference "New Materials and Technologies in Mechanical Engineering" (NMTME 2019) 2019 / p. 656-661 https://doi.org/10.4028/www.scientific.net/KEM.822.656

Investments in the shale oil industry under risk and uncertainty
Pulkkinen, Svetlana; **Valtin, Juhan** Przeglad elektrotechniczny = Electrical review 2018 / p. 1-5 : ill https://doi.org/10.15199/48.2018.12.01 http://pe.org.pl/articles/2018/12/1.pdf Journal metrics at Scopus Article at Scopus

IoT based tools and methods for electrical machine diagnostics = Asjade interneti põhised tööriistad ja meetodid elektrimasinate diagnostikaks
Raja, Hadi Ashraf 2023 https://doi.org/10.23658/taltech.20/2023 https://digikogu.taltech.ee/et/Item/3015334f-c32b-43ae-ba2d-bfcda536aba5 https://www.ester.ee/record=b5558656*est

IoT based tools for data acquisition and monitoring of electrical machines
Raja, Hadi Ashraf 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. 85-86 : ill https://www.ester.ee/record=b5457278*est

IoT based tools for data acquisition in electrical machines and robotics
Raja, Hadi Ashraf; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Belahcen, Anouar** 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 737-742 : ill https://doi.org/10.1109/PEMC48073.2021.9432553

Iron losses evaluation of additively manufactured 6.5 % silicon steel
Tiismus, Hans 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. 103-104 : ill https://www.ester.ee/record=b5291755*est

ISEAUTO - First Estonian Self-Driving Vehicle
Rassõlkin, Anton 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. 11-12 https://www.ester.ee/record=b5183874*est

ISEAUTO self-driving vehicle dynamic model verification
Rjabtšikov, Viktor; **Mohamed, Mahmoud Ibrahim Hassanin**; **Kuts, Vladimir** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227396

Iselaev käis ise mere taga ära
Vill, Ants Director. Inseneeria 2019 / lk. 61-67 : fot http://www.ester.ee/record=b2336521*est https://director.ee/2019/10/02/iselaev-kais-mere-taga/?v=a57b8491d1d8

Isesõitvat autot täiendab nüüd robotlaev
Tamm, Kadri TööstusEST 2019 / lk. 34-38 : ill http://www.ester.ee/record=b4481084*est https://toostusest.ee/uudis/2019/05/14/isesoitvat-autot-taiendab-nuud-robotlaev/

Isolated high-frequency link PFC rectifier with high step-down factor and reduced energy circulation
Blinov, Andrei; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique; Martins, João F.; Peftitsis, Dimosthenis IEEE journal of emerging and selected topics in industrial electronics 2022 / p. 788-796 https://doi.org/10.1109/JESTIE.2021.3126226

Isolated matrix converters = Isoleeritud maatriksmuundurid
Korkh, Oleksandr 2021 https://www.ester.ee/record=b5395693*est https://digikogu.taltech.ee/et/Item/34baf9fc-42aa-45ce-b071-3b8886c7903e https://doi.org/10.23658/taltech.4/2021

Isolatsiooni koordinatsioon. Osa 1, Määratlused, põhimõtted ja reeglid [Võrguteavik] = Insulation co-ordination. Part 1, Definitions, principles and rules (IEC 60071-1:2019)
2020 https://www.ester.ee/record=b5298925*est