A new high power factor single-phase diode rectifier with optimum ripple-power conversion
Sakkos, Tiiu; **Sarv, Vello** BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 229-232 : ill

A new low-distorting single-phase diode rectifier employing optimum ripple-power conversion
Sakkos, Tiiu; **Sarv, Vello** 5th International Conference : Electric Power Quality and Supply Reliability : August 23-26, 2006, Viimsi, Estonia : conference proceedings 2006 / p. 23-26 : ill

Advanced nanomaterials and their applications in renewable energy, Jingbo Louise Liu and Sajid Bashir : [book review]
Rauwel, Protima MRS bulletin 2016 / p. 494 https://doi.org/10.1557/mrs.2016.127

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

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

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

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

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

CZTS monograin membranes for photoelectrochemical fuel production preparation and characterization
Samieipour, Ali; **Kouhiisfahani, Elham**; **Galajev, Semjon**; **Meissner, Dieter** 5th International Conference on Clean Electrical Power : Renewable Energy Resources Impact : Taormina (Italy), 16th-18th June 2015 2015 / p. 212-215 : ill http://dx.doi.org/10.1109/ICCEP.2015.7177625

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

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

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

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

Dual-source Linear Energy Prediction (LINE-P) model in the context of WSNs
Ahmed, Faisal; **Tamberg, Gert**; **Le Moullec, Yannick**; **Annus, Paul** Sensors 2017 / art. 1666, p. 1-22 : ill https://doi.org/10.3390/s17071666 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Efficiency enhancement of Cu2ZnSnS4 monograin layer solar cells via absorber post-growth treatments
Timmo, Kristi; **Dolcet Sadurni, Marc**; **Pilvet, Maris**; **Muska, Katri**; **Altosaar, Mare**; **Mikli, Valdek**; Atlan, Fabien; Guc, Maxim;

Izquierdo-Roca, Victor; **Grossberg-Kuusk, Maarja**; **Kauk-Kuusik, Marit** Solar energy materials and solar cells 2023 / art. 112090 https://doi.org/10.1016/j.solmat.2022.112090 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energiasalvestid ja -salvestustehnoloogiad
Rosin, Argo; **Link, Siim**; **Hõimoja, Hardi**; **Drovtar, Imre** 2015 http://www.ester.ee/record=b4484414*est

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

Energiatehnika ja maailm
Risthein, Endel 2013 http://www.ester.ee/record=b2697019*est

Evaluation of high power factor three-phase diode rectifiers with parallel-resonant input filters
Sakkos, Tiiu; **Sarv, Vello** The 3rd International Conference Electric Power Quality and Supply Reliability, September 4...6, 2002, Haapsalu, Estonia : proceedings 2002 / p. 76-79 : ill

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

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

Hot-spots of large wave energy resources in relatively sheltered sections of the Baltic Sea coast
Kovaleva, Olga; **Eelsalu, Maris**; **Soomere, Tarmo** Renewable and sustainable energy reviews 2017 / p. 424-437 : ill https://doi.org/10.1016/j.rser.2017.02.033 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ilmus eestikeelne raamat energiasalvestistest
Ehitaja 2015 / lk. 34 : ill

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

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

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

Kütuseelement ergutab jätkuvalt fantaasiat : [kütuseelemendist Dmitri Vinnikov ja Madis Lehtla]
Juurak, Raivo; **Vinnikov, Dmitri**; **Lehtla, Madis** Õpetajate Leht 2010 / 5. märts, lk. 7 : fot https://artiklid.elnet.ee/record=b1962215*est

Light-load efficiency improvement of galvanically isolated quasi-Z-source DC-DC converter for photovoltaic applications
Mashinchi Maheri, Hamed; **Chub, Andrii**; **Vinnikov, Dmitri** 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/COMPEL49091.2020.9265800

Linear induction motors for multi purpose energy conversion
Laugis, Juhan; **Lehtla, Tõnu** PEMC'96 : 7th International Power Electronics & Motion Control Conference, Exhibition, Tutorials, Budapest, Hungary, 2-4 September, 1996 : proceedings. Volume 3 of 3 1996 / p. 3/88-3/92: ill

Low-cost photovoltaic microinverter with ultra-wide MPPT voltage range
Liivik, Elizaveta; **Chub, Andrii**; **Kosenko, Roman**; **Vinnikov, Dmitri** 2017 6th International Conference on Clean Electrical Power : Renewable Energy Resources Impact : Santa Margherita Ligure, 27-29 June 2017 2017 / p. 46-52 : ill https://doi.org/10.1109/ICCEP.2017.8004790

MPPT performance enhancement of low-cost PV microconverters
Vinnikov, Dmitri; **Chub, Andrii**; **Korkh, Oleksandr**; **Liivik, Elizaveta**; Blaabjerg, Frede; Kouro, Samir Solar energy 2019 / p. 156-166 : ill https://doi.org/10.1016/j.solener.2019.05.024 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Multi purpose energy conversion in electrical drives
Laugis, Juhan; **Lehtla, Tõnu**; **Teemets, Raivo** Stockholm Power Tech, June 18-22, 1995 : International Symposium on Electric Power Engineering. Electrical machines and drives 1995 / p. 420-425: ill

Multiphase galvanically isolated impedance-source DC-DC converter for residential renewable energy applications
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Elizaveta** 2017 IEEE International Symposium on Industrial Electronics (ISIE) : Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom, 19-21 June, 2017 : proceedings 2017 / p. 1775-1780 : ill https://doi.org/10.1109/ISIE.2017.8001517

Multiphase quasi-z-source DC-DC converters for residential distributed generation systems
Chub, Andrii; **Vinnikov, Dmitri**; **Liivik, Elizaveta**; **Jalakas, Tanel** IEEE transactions on industrial electronics 2018 / p. 8361-8371 : ill https://doi.org/10.1109/TIE.2018.2801860 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A New Single Source Five-Level Common Ground Switched Capacitor based Inverter
Hemmati Shahsavar, Tala; **Husev, Oleksandr**; Babaei, Ebrahim; Sabahi, Mehran; **Vinnikov, Dmitri**; Khoshkbar-Sadigh, Arash 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 https://doi.org/10.1109/ENERGYCON53164.2022.9830422

Novel isolated power conditioning unit for micro wind turbine applications
Chub, Andrii; **Husev, Oleksandr**; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2017 / p. 5984-5993 : ill https://doi.org/10.1109/TIE.2016.2645890 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Partial buck-boost resonant power converter for residential PV applications
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 5 l. https://doi.org/10.1109/ENERGYCON53164.2022.9830394

Peat-derived carbon-based non-platinum group metal type catalyst for oxygen reduction and evolution reactions
Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Palm, Rasmus; **Volobujeva, Olga**; Härk, Eneli; Kochovski, Zdravko; Romann, Tavo; Härmas, R.; Aruväli, Jaan; Kikas, Arvo; Lust, Enn Electrochemistry Communications 2020 / art. 106700 https://doi.org/10.1016/j.elecom.2020.106700 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Peat-derived carbon-based non-platinum group metal type catalyst for oxygen reduction and evolution reactions
Teppor, Patrick; Jäger, Rutha; Paalo, Madis; Palm, R.; **Volobujeva, Olga**; Härk, E.; Kochovski, Z.; Romann, Tavo; Härmas, R.; Aruväli, J.; Kikas, A.; Lust, Enn GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 81 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Peculiarities of multilevel power electronic converters for interfacing battery energy storages with AC loads
Bubovich, Alexander; Vorobyov, Maxim; **Blinov, Andrei**; Peftitsis, Dimosthenis IEEE 8th Workshop on Advances in Information, Electronic and Electrical Engineering (AIEEE) 2021 / p. 1-4 https://doi.org/10.1109/AIEEE51419.2021.9435798

Performance evaluation of step-up/down current-source partial power converters for PV applications
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 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/RTUCON56726.2022.9978890

Power converter interfaces for electrochemical energy storage systems - a review
Fernao Pires, Vitor; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; **Roasto, Indrek**; Martins, Joao Energy conversion and management 2014 / p. 453-475 : ill https://doi.org/10.1016/j.enconman.2014.05.003 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A review of hybrid converter topologies
Afshari, Hossein; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri** Energies 2022 / art. 9341 https://doi.org/10.3390/en15249341 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sb2S3 solar cells with a cost-effective and dopant-free fluorene-based enamine as a hole transport material
Juneja, Nimish; **Mandati, Sreekanth**; **Katerski, Atanas**; **Spalatu, Nicolae**; Daskeviciute-Geguziene, Sarune; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** Sustainable Energy & Fuels 2022 / p. 3220-3229 https://doi.org/10.1039/D2SE00356B Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Single-phase qZS-based PV inverter with integrated battery storage for distributed energy generation
Husev, Oleksandr; **Makovenko, Elena**; **Vinnikov, Dmitri**; **Jalakas, Tanel** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 508-513 : ill https://doi.org/10.1109/CPE.2018.8372570

Single-switch impedance-source galvanically isolated DC-DC converter with combined energy transfer
Chub, Andrii; **Vinnikov, Dmitri**; Babaei, Ebrahim; **Liivik, Elizaveta**; **Korkh, Oleksandr**; Kouro, Samir 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.2018.8659851

Sissejuhatus energiatehnikasse
Risthein, Endel 2007 http://www.ester.ee/record=b2290665*est

Solar optiverter - a novel hybrid approach to the photovoltaic module level power electronics
Vinnikov, Dmitri; **Chub, Andrii**; Kosenko, Roman; **Korkh, Oleksandr** IEEE transactions on industrial electronics 2019 / p. 3869-3880 https://doi.org/10.1109/TIE.2018.2850036 Tehnikaülikooli seade muudab päikesepaneelid märgatavalt tootlikumaks Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Step-up DC/DC converters with cascaded quasi-Z-source network
Vinnikov, Dmitri; **Roasto, Indrek**; Strzelecki, Ryszard; Adamowicz, Marek IEEE transactions on industrial electronics 2012 / p. 3727-3736 : ill https://ieeexplore.ieee.org/document/6096410

Zero-redundancy fault-tolerant resonant dual active bridge converter for more electric aircrafts
Chub, Andrii; Buticchi, Giampaolo; **Sidorov, Vadim**; **Vinnikov, Dmitri** 2022 IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 l. https://doi.org/10.1109/PEDG54999.2022.9923154

Tallinna tehnikaülikooli energiaruuter loob majadele omaette elektrivõrgu
Eesti Ekspress 2018 / lk. [23] https://ekspress.delfi.ee/artikkel/84721243/tallinna-tehnikaulikooli-energiaruuter-loob-majadele-omaette-elektrivorgu

TalTechi energeetikutel valmis kodudes taastuvenergia kasutamiseks uudseid lahendusi
Blinov, Andrei; **Roasto, Indrek** Elektriala 2018 / lk. 30 : fot http://www.ester.ee/record=b1240496*est

TalTechi jõuelektroonikateadlaste artikkel sai maineka tunnustuse
Mente et Manu 2018 / lk. 6 http://www.ester.ee/record=b1242496*est http://dea.digar.ee/publication/AKmenteetmanu https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html https://artiklid.elnet.ee/record=b2868853*est

TalTechi teadlaste seade tõhustab päikesepaneele
Imeline Teadus 2019 / lk. 21 : fot https://www.ester.ee/record=b2747925*est

TEST ▌Kas sina tead, kuidas hinnata elektrisüsteemi seisundit ja miks rekonstrueeritakse tramme? Pane end proovile! [Võrguväljaanne]
,
Kas sina tead, kuidas hinnata elektrisüsteemi seisundit ja miks rekonstrueeritakse tramme? Pane end proovile! [Võrguväljaanne]
postimees.ee 2022 "Kas sina tead, kuidas hinnata elektrisüsteemi seisundit ja miks rekonstrueeritakse tramme? Pane end proovile!"

TTÜ energeetikud arendavad Eesti esimest energiasalvestit [Võrguväljaanne]
Lauri, Vahur novaator.err.ee 2019 / video TTÜ energeetikud arendavad Eesti esimest energiasalvestit

Utility-scale energy storage systems : a comprehensive review of their applications, challenges, and future directions
Luo, Wensheng; Stynski, Sebastian; **Chub, Andrii**; Franquelo, Leopoldo G.; Malinowski, Mariusz; **Vinnikov, Dmitri** IEEE industrial electronics magazine 2021 / p. 17-27 https://doi.org/10.1109/MIE.2020.3026169 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Uudne tehnoloogia päikeseenergiahoonetele
Chub, Andrii Ehitaja 2022 / lk. 22-23 : fot https://www.ester.ee/record=b1072123*est https://taltech.ee/uudised/jouelektroonika-teadustoo-viljad-edendavad-paikeseenergia-tehnoloogiat

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

Wide input voltage range photovoltaic microconverter with reconfigurable buck-boost switching stage
Chub, Andrii; **Vinnikov, Dmitri**; **Kosenko, Roman**; **Liivik, Elizaveta** IEEE transactions on industrial electronics 2017 / p. 5974-5983 : ill https://doi.org/10.1109/TIE.2016.2645891 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Введение в энерготехнику
Risthein, Endel 2008 https://www.ester.ee/record=b2412915*est